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

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

This information should not be photo copied.

Rear Derailleur (ATB / NEXAVE) Specifications

Series	XTR	XTR	XTR	XTR	SAINT	SAINT
Model No.	RD-M960	RD-M960	RD-M952	RD-M952	RD-M805	RD-M805
Pulley Cage	GS	SGS	GS	SGS	SS	GS
Speeds	9	9	9	9	9	9
Compatible with LG sprocket	-	-	-	-	-	-
Low-Normal Spring Type	X	X	-	-	X	X
Max Front Difference	22T	22T	22T	22T	Front single use	10T
Total Capacity	33T	43T	33T	43T	29T	33T
Max. Rear Sprocket	34T	34T	34T	34T	34T	34T
Min. Rear Sprocket	11T	11T	11T	11T	11T	11T
Riveted Adapter	Road type	-	-	-	-	-
	Bmx-Track type	-	-	-	-	-
Dropout	for Road type	-	-	-	X	X
	for Bmx-Track type	-	-	-	-	-
Direct Attachment	X	X	X	X	-	-
Detachable Bracket	-	-	-	-	-	-
Wheel-Type Cable Guide	-	-	-	-	-	-
Fluoric Coated Link Bushings	4	4	4	4	2	2
Parallelogram Spring Adjuster	-	-	X	X	-	-
Sealed Bearing Guide Pulley	X	X	X	X	-	-
Sealed Bearing Tension Pulley	X	X	X	X	X	X
11T Pulley	X	X	X	X	X	X
Pulley Bolt Retainer	X	X	-	-	X	X
Bracket Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted
Plate Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted
Outer Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Painted
Inner Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Plated
Outer Plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Inner Plate	Material	Aluminum	Aluminum	Aluminum	Steel	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Anodized
Removable Rubber Bumper	X	X	-	-	-	-
Adjustable Bump Stopper	-	-	-	-	X	X
NOTE					Compatible with FH-M805	Compatible with FH-M805

Rear Derailleur (ATB / NEXAVE) Specifications

Series	SAINT	SAINT	SAINT	SAINT	Deore-XT	Deore-XT	Deore-XT
Model No.	RD-M805	RD-M800	RD-M800	RD-M800	RD-M760	RD-M760	RD-M750
Pulley Cage	SGS	SS	GS	SGS	GS	SGS	GS
Speeds	9	9	9	9	9	9	9
Compatible with LG sprocket	-	-	-	-	-	-	-
Low-Normal Spring Type	X	X	X	X	X	X	-
Max Front Difference	22T	Front single use	10T	22T	22T	22T	22T
Total Capacity	45T	29T	33T	45T	33T	45T	33T
Max. Rear Sprocket	34T	34T	34T	34T	34T	34T	34T
Min. Rear Sprocket	11T	11T	11T	11T	11T	11T	11T
Riveted Adapter	Road type	-	-	-	-	-	-
	Bmx-Track type	-	-	-	-	-	-
Dropout	for Road type	X	X	X	X	-	-
	for Bmx-Track type	-	X	X	X	-	-
Direct Attachment	-	-	-	-	X	X	X
Detachable Bracket	-	-	-	-	-	-	-
Wheel-Type Cable Guide	-	-	-	-	-	-	-
Fluoric Coated Link Bushings	2	2	2	2	4	4	4
Parallelogram Spring Adjuster	-	-	-	-	-	-	-
Sealed Bearing Guide Pulley	-	-	-	-	-	-	-
Sealed Bearing Tension Pulley	X	X	X	X	X	X	X
11T Pulley	X	X	X	X	X	X	X
Pulley Bolt Retainer	X	X	X	X	-	-	-
Bracket Body	Material	Aluminum	aluminum	aluminum	aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Plate Body	Material	Aluminum	aluminum	aluminum	aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Outer Link	Material	Aluminum	aluminum	aluminum	aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner Link	Material	Steel	Steel	Steel	Steel	Aluminum	Aluminum
	Finish	Plated	Plated	Plated	Plated	Painted	Painted
Outer Plate	Material	Aluminum	aluminum	aluminum	aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Inner Plate	Material	Steel	aluminum	aluminum	Steel	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Painted	Anodized	Anodized
Removable Rubber Bumper	-	-	-	-	X	X	-
Adjustable Bump Stopper	X	X	X	X	-	-	-
NOTE	Compatible with FH-M805	Compatible with FH-M800	Compatible with FH-M800	Compatible with FH-M800			

Rear Derailleur (ATB / NEXAVE) Specifications

Series	Deore-XT	HONE	HONE	Deore LX	Deore LX	Deore-LX	Deore-LX
Model No.	RD-M750	RD-M600	RD-M600	RD-M580	RD-M580	RD-M570-S	RD-M570-G
Pulley Cage	SGS	GS	SGS	GS	SGS	SGS	SGS
Speeds	9	9	9	9	9	9	9
Compatible with LG sprocket	-	-	-	-	-	-	-
Low-Normal Spring Type	-	X	X	X	X	-	-
Max Front Difference	22T	22T	22T	22T	22T	22T	22T
Total Capacity	43T	33T	45T	33T	45T	43T	43T
Max. Rear Sprocket	34T	34T	34T	34T	34T	34T	34T
Min. Rear Sprocket	11T	11T	11T	11T	11T	11T	11T
Riveted Adapter	Road type	-	-	-	-	-	-
	Bmx-Track type	-	-	-	-	-	-
Dropout	for Road type	-	X	X	-	-	-
	for Bmx-Track type	-	X	X	-	-	-
Direct Attachment	X	-	-	X	X	X	X
Detachable Bracket	-	-	-	-	-	-	-
Wheel-Type Cable Guide	-	-	-	-	-	-	-
Fluoric Coated Link Bushings	4	2	2	2	2	2	2
Parallelogram Spring Adjuster	-	-	-	-	-	-	-
Sealed Bearing Guide Pulley	-	-	-	-	-	-	-
Sealed Bearing Tension Pulley	X	-	-	-	-	-	-
11T Pulley	X	X	X	X	X	X	X
Pulley Bolt Retainer	-	-	-	-	-	-	-
Bracket Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted(Black)
Plate Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted(Black)
Outer Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted(Black)
Inner Link	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted(Black)
Outer Plate	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	Painted	Painted	Painted	Painted	Painted(Gold)
Inner Plate	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted(Black)
Removable Rubber Bumper	-	-	-	-	-	-	-
Adjustable Bump Stopper	-	X	X	-	-	-	-
NOTE		Compatible with FH-M600	Compatible with FH-M600			Silver/Black Version	Gold Version

Rear Derailleur (ATB / NEXAVE) Specifications

Series	Deore-LX	Deore	Deore	NEXAVE	NEXAVE	NEXAVE	NEXAVE	NEXAVE
Model No.	RD-M570	RD-M510-L	RD-M510-S	RD-C810	RD-C600	RD-C531	RD-C505	RD-T400-S
Pulley Cage	SGS	SGS	SGS	SGS	Smart	SS	Smart	MGS
Speeds	9	9	9	8	9	8	8	8
Compatible with LG sprocket	-	-	-	X	-	X	X	-
Low-Normal Spring Type	-	-	-	-	X	X	X	X
Max Front Difference	22T	22T	22T	22T	12T	Front single use	22T	20T
Total Capacity	43T	43T	43T	44T	35T	22T	44T	43T
Max. Rear Sprocket	34T	34T	34T	33T	32-34T	33T	33T	34T
Min. Rear Sprocket	11T	11T	11T	11T	11T	11T	11T	11T
Riveted Adapter	Road type	-	-	-	-	-	-	-
	Bmx-Track type	-	-	-	-	-	-	-
Dropout	for Road type	-	-	-	-	-	-	-
	for Bmx-Track type	-	-	-	-	-	-	-
Direct Attachment	X	X	X	X	X	X	X	X
Detachable Bracket	-	-	-	-	-	-	-	-
Wheel-Type Cable Guide	-	-	-	-	X	X	X	X
Fluoric Coated Link Bushings	2	2	2	4	3	2	3	3
Parallelogram Spring Adjuster	-	-	-	-	-	-	-	-
Sealed Bearing Guide Pulley	-	-	-	-	-	-	-	-
Sealed Bearing Tension Pulley	-	-	-	-	-	-	-	-
11T Pulley	X	X	X	X	13/15T	13/13T	13/15T	X
Pulley Bolt Retainer	-	-	-	-	-	-	-	-
Bracket Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	Painted
Plate Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	Painted
Outer Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	Painted
Inner Link	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Pearl Bright	Painted	Painted
Outer Plate	Material	Steel	Steel	Steel	Aluminum	Steel	Steel	Steel
	Finish	Pearl Bright	Painted	Painted	Anodized	Painted	Painted	Painted
Inner Plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Pearl Bright	Painted	Painted	Pearl Bright	Pearl Bright	Painted	Painted
Removable Rubber Bumper	-	-	-	-	-	-	-	-
Adjustable Bump Stopper	-	-	-	-	-	-	-	-
NOTE		Black Version	Silver Version					

Rear Derailleur (ATB / NEXAVE) Specifications

Series	NEXAVE	Alivio	Alivio	Acera	Acera	C-Series	Altus	Altus
Model No.	RD-T300	RD-MC20-S	RD-MC20-L	RD-M340-S	RD-M340-L	RD-C201	RD-CT95-S	RD-CT95-L
Pulley Cage	MGS	SGS	SGS	Smart	Smart	MGS	Smart	Smart
Speeds	7	8	8	7/8	7/8	8	7/8	7/8
Compatible with LG sprocket	-	-	-	-	-	-	-	-
Low-Normal Spring Type	X	-	-	-	-	X	-	-
Max Front Difference	20T	20T	20T	20T	20T	20T	20T	20T
Total Capacity	43T	39T	39T	43T	43T	43T	43T	43T
Max. Rear Sprocket	34T	30T	30T	34T	34T	28-34T	34T	34T
Min. Rear Sprocket	11T	11T	11T	11T	11T	11T	11T	11T
Riveted Adapter	Road type	X	-	-	-	-	-	-
	Bmx-Track type	-	-	-	-	-	-	-
Dropout	for Road type	-	-	-	-	-	-	-
	for Bmx-Track type	-	-	-	-	-	-	-
Direct Attachment	X	X	X	X	X	X	X	X
Detachable Bracket	X	-	-	-	-	-	-	-
Wheel-Type Cable Guide	-	-	-	-	-	X	-	-
Fluoric Coated Link Bushings	3	2	2	1	1	-	-	-
Parallelogram Spring Adjuster	-	-	-	-	-	-	-	-
Sealed Bearing Guide Pulley	-	-	-	-	-	-	-	-
Sealed Bearing Tension Pulley	-	-	-	-	-	-	-	-
11T Pulley	X	X	X	13/15T	13/15T	11/13T	13/15T	13/15T
Pulley Bolt Retainer	-	-	-	-	-	-	-	-
Bracket Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Resin	Aluminum
	Finish	Barrel	Painted	Painted	Painted	Painted	Painted	Painted
Plate Body	Material	Aluminum	Resin	Resin	Resin	Resin	Resin	Resin
	Finish	Barrel	-	-	-	-	Painted	-
Outer Link	Material	Steel	Aluminum	Aluminum	Steel	Steel	Aluminum	Steel
	Finish	Pearl Bright	Painted	Painted	Painted	Painted	Clear Coated	Painted
Inner Link	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Painted	Zinc Plated
Outer Plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Pearl Bright	Painted	Painted	Painted	Painted	Pearl Bright	Painted
Inner Plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Painted	Zinc Plated
Removable Rubber Bumper	-	-	-	-	-	-	-	-
Adjustable Bump Stopper	-	-	-	-	-	-	-	-
NOTE		Silver Version	Black Version	Silver Version	Black Version		Silver Version	Black Version

Rear Derailleur (ATB / NEXAVE) Specifications

Series	Tourney	Tourney	Tourney	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.	RD-TX70	RD-TX50	RD-TX30	RD-FT30	RD-TY18	RD-TY18	RD-TY15	RD-TY15
Pulley Cage	Smart	Smart	Smart	SS	SS	GS	SS	GS
Speeds	6/7	6/7	6/7	6/7	6	6	5	5
Compatible with LG sprocket	-	-	-	-	-	-	-	-
Low-Normal Spring Type	-	-	-	-	-	-	-	-
Max Front Difference	20T	20T	20T	Front single use	13T	20T	13T	20T
Total Capacity	43T	43T	43T	17T	28T	34T	28T	34T
Max. Rear Sprocket	28-34T	28-34T	28-34T	28T	28T	28T	28T	28T
Min. Rear Sprocket	11T	11T	11T	11T	14T	14T	14T	14T
Riveted Adapter	Road type	X	X	X	X	X	X	X
	Bmx-Track type	-	X	X	X	-	X	-
Dropout	for Road type	-	-	-	-	-	-	-
	for Bmx-Track type	-	-	-	-	-	-	-
Direct Attachment	X	X	X	X	X	X	X	X
Detachable Bracket	-	-	-	-	-	-	-	-
Wheel-Type Cable Guide	X	X	-	X	-	-	-	-
Fluoric Coated Link Bushings	-	-	-	-	-	-	-	-
Parallelogram Spring Adjuster	-	-	-	-	-	-	-	-
Sealed Bearing Guide Pulley	-	-	-	-	-	-	-	-
Sealed Bearing Tension Pulley	-	-	-	-	-	-	-	-
11T Pulley	13/15T	13/15T	13/15T	11T	-	-	-	-
Pulley Bolt Retainer	-	-	-	-	-	-	-	-
Bracket Body	Material	Resin	Resin	Resin	Steel	Steel	Steel	Steel
	Finish	-	-	-	Painted	Zinc Plated	Zinc Plated	Zinc Plated
Plate Body	Material	Resin	Resin	Resin	Steel	Steel	Steel	Steel
	Finish	-	-	-	Painted	Zinc Plated	Zinc Plated	Zinc Plated
Outer Link	Material	Aluminum	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Zinc Plated	Zinc Plated	Zinc Plated
Inner Link	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Painted	Zinc Plated	Zinc Plated	Zinc Plated
Outer Plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Chrome Plated	Pearl Bright	Zinc Plated	Zinc Plated	Zinc Plated
Inner Plate	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Painted	Zinc Plated	Zinc Plated	Zinc Plated
Removable Rubber Bumper	-	-	-	-	-	-	-	-
Adjustable Bump Stopper	-	-	-	-	-	-	-	-
NOTE				For folding bike with over 16 inches wheel.				

Front Derailleur (ATB / NEXAVE) Specifications

Series		XTR	XTR	XTR	SAINT	SAINT	Deore XT
Model No.		FD-M960	FD-M960-E	FD-M961	FD-M805	FD-M806	FD-M761/3
Rear Speeds		9	9	9	9	9	9
Front SIS		X	X	X	X	X	X
Chain Ring		Triple	Triple	Triple	Triple/Double	Triple/Double	Triple
Top Swing Link		X	X	-	X	-	-
E-type BB Mount		-	w/ Bolt	-	-	-	-
Applicable Chain Line		50mm	50mm	50mm	57.5	57.5	50mm
Top Gear Teeth		44T	44T	44T	44T	44T	48T
Total Capacity		22T	22T	22T	22T	22T	22T
Top-Middle Min. Capacity		12T	12T	12T	12T	12T	12T
Dual Pull		X	X	X	X	X	X
Multi Clamp Band		-	-	-	X	X	X
Powerchange Mechanism		-	-	-	-	-	-
Chainstay Angle 66 to 69 degrees	Braze-on		-	-	-	-	-
	28.6mm	Top	X	X	X	X	-
		Down	X	X	X	X	-
	31.8mm	Top	X	X	X	X	-
		Down	X	X	X	X	-
	34.9mm	Top	X	X	X	X	-
		Down	X	X	X	X	-
	Chainstay Angle 63 to 66 degrees	Braze-on		-	-	-	-
28.6mm		Top	-	-	-	-	X
		Down	-	-	-	-	X
31.8mm		Top	-	-	-	-	X
		Down	-	-	-	-	X
34.9mm		Top	-	-	-	-	X
		Down	-	-	-	-	X
Front Clamp Band		Material	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Anodized	-	Anodized	Painted	Painted	Painted
Rear Clamp Band	Material	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	-	Anodized	Painted	Painted	Painted
BB Plate	Material	-	Aluminum	-	-	-	-
Outer Link	Material	Steel	Steel	Aluminum	Steel	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Painted	Painted	Painted
Inner Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain Guide	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Nickel Plated	Nickel Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Note					For 150mm O.L.D with 83mm BB shell width	For 150mm O.L.D with 83mm BB shell width	

Front Derailleur (ATB / NEXAVE) Specifications

Series		Deore XT	Deore XT	Deore XT	Deore XT	HONE	HONE
Model No.		FD-M761/6	FD-M760	FD-M760-E	FD-M750-E	FD-M600	FD-M600-E
Rear Speeds		9	9	9	9	9	9
Front SIS		X	X	X	X	X	X
Chain Ring		Triple	Triple	Triple	Triple	Triple	Triple
Top Swing Link		-	X	X	X	X	X
E-type BB Mount		-	-	w/ Bolt	w/ Bolt	-	X
Applicable Chain Line		50mm	50mm	50mm	47.5 / 50mm	50mm	50mm
Top Gear Teeth		44T	44T	44T	44 / 46T	44T	44T
Total Capacity		22T	22T	22T	22T	22T	22T
Top-Middle Min. Capacity		12T	12T	12T	12T	12T	12T
Dual Pull		X	X	X	-	X	X
Multi Clamp Band		X	X	-	-	X	-
Powerchange Mechanism		-	-	-	-	-	-
Chainstay Angle 66 to 69 degrees	Braze-on		-	-	-	-	-
	28.6mm	Top	X	X	X	X	X
		Down	X	X	X	X	X
	31.8mm	Top	X	X	X	X	X
		Down	X	X	X	X	X
	34.9mm	Top	X	X	X	X	X
		Down	X	X	X	X	X
	Chainstay Angle 63 to 66 degrees	Braze-on		-	-	-	-
28.6mm		Top	-	-	-	-	-
		Down	-	-	-	-	-
31.8mm		Top	-	-	-	-	-
		Down	-	-	-	-	-
34.9mm		Top	-	-	-	-	-
		Down	-	-	-	-	-
Front Clamp Band		Material	Aluminum	Aluminum	-	-	Aluminum
	Finish	Painted	Painted	-	-	Painted	-
Rear Clamp Band	Material	Aluminum	Aluminum	-	-	Aluminum	-
	Finish	Painted	Painted	-	-	Painted	-
BB Plate	Material	-	-	Aluminum	Aluminum	-	Aluminum
Outer Link	Material	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain Guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Note							

Front Derailleur (ATB / NEXAVE) Specifications

Series		HONE	Deore LX	Deore LX	Deore LX	Deore LX	Deore LX
Model No.		FD-M601	FD-M580	FD-M580-E	FD-M581/3	FD-M581/3	FD-M581/6
Rear Speeds		9	9	9	9	9	9
Front SIS		X	X	X	X	X	X
Chain Ring		Triple	Triple	Triple	Triple	Triple	Triple
Top Swing Link		-	X	X	-	-	-
E-type BB Mount		-	-	X	-	-	-
Applicable Chain Line		50mm	50mm	50mm	50mm	50mm	50mm
Top Gear Teeth		44T	44T	44T	48T	44T	44T
Total Capacity		22T	22T	22T	22T	22T	22T
Top-Middle Min. Capacity		12T	12T	12T	12T	12T	12T
Dual Pull		X	X	X	X	X	X
Multi Clamp Band		X	X	-	X	X	X
Powerchange Mechanism		-	-	-	-	-	-
Chainstay Angle 66 to 69 degrees	Braze-on		-	-	-	-	-
	28.6mm	Top	X	X	X	-	X
		Down	X	X	X	-	X
	31.8mm	Top	X	X	X	-	X
		Down	X	X	X	-	X
	34.9mm	Top	X	X	X	-	X
		Down	X	X	X	-	X
	Chainstay Angle 63 to 66 degrees	Braze-on		-	-	-	-
28.6mm		Top	-	-	-	X	X
		Down	-	-	-	X	X
31.8mm		Top	-	-	-	X	X
		Down	-	-	-	X	X
34.9mm		Top	-	-	-	X	X
		Down	-	-	-	X	X
Front Clamp Band		Material	Aluminum	Aluminum	-	Aluminum	Aluminum
	Finish	Painted	Painted	-	Painted	Painted	Painted
Rear Clamp Band	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	-	Painted	Painted	Painted
BB Plate	Material	-	-	Aluminum	-	-	-
Outer Link	Material	Aluminum	Steel	Steel	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain Guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Note							

Front Derailleur (ATB / NEXAVE) Specifications

Series		Deore LX	Deore LX	Deore LX	Deore LX	Deore LX	Deore LX
Model No.		FD-M571-G	FD-M571	FD-M570-G	FD-M570	FD-M570-EG	FD-M570-E
Rear Speeds		9	9	9	9	9	9
Front SIS		X	X	X	X	X	X
Chain Ring		Triple	Triple	Triple	Triple	Triple	Triple
Top Swing Link		-	-	X	X	X	X
E-type BB Mount		-	-	-	-	w/ Bolt	w/ Bolt
Applicable Chain Line		47.5 / 50mm	47.5 / 50mm	47.5 / 50mm	47.5 / 50mm	47.5 / 50mm	47.5 / 50mm
Top Gear Teeth		44 / 48T	44 / 48T	44 / 48T	44 / 48T	44T	44T
Total Capacity		22T	22T	22T	22T	22T	22T
Top-Middle Min. Capacity		12T	12T	12T	12T	12T	12T
Dual Pull		-	-	-	-	-	-
Multi Clamp Band		-	-	-	-	-	-
Powerchange Mechanism		-	-	-	-	-	-
Chainstay Angle 66 to 69 degrees	Braze-on		-	-	-	-	-
	28.6mm	Top	X	X	X	X	X
		Down	X	X	X	X	X
	31.8mm	Top	X	X	X	X	X
		Down	X	X	X	X	X
	34.9mm	Top	X	X	X	X	X
Down		X	X	X	X	X	
Chainstay Angle 63 to 66 degrees	Braze-on		-	-	-	-	-
	28.6mm	Top	X	X	-	-	-
		Down	X	X	-	-	-
	31.8mm	Top	X	X	-	-	-
		Down	X	X	-	-	-
	34.9mm	Top	X	X	-	-	-
Down		X	X	-	-	-	
Front Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	Painted	Painted	-	-
Rear Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	-
	Finish	Painted	Painted	Painted	Painted	-	-
BB Plate	Material	-	-	-	-	Aluminum	Aluminum
Outer Link	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Inner Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain Guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Black Chrome Plated	Pearl Bright	Black Chrome Plated	Pearl Bright	Black Chrome Plated	Pearl Bright
Note		Gold Version		Gold Version		Gold Version	

Front Derailleur (ATB / NEXAVE) Specifications

Series		Deore	Deore	NEXAVE	NEXAVE	NEXAVE	NEXAVE		
Model No.		FD-M511	FD-M510	FD-C810	FD-C600	FD-C505	FD-C511		
Rear Speeds		9	9	*8	9	*8	*8		
Front SIS		X	X	SPCM	X	SPCM	X		
Chain Ring		Triple	Triple	Triple	Double	Triple	Triple		
Top Swing Link		-	X	X	X	X	-		
E-type BB Mount		-	-	X	X	X	-		
Applicable Chain Line		47.5 / 50mm	47.5 / 50mm	50mm	52.5mm	50mm	50mm		
Top Gear Teeth		44 / 48T	44 / 48T	46T	46T	46T	46T		
Total Capacity		22T	22T	22T	12T	22T	22T		
Top-Middle Min. Capacity		12T	12T	12T	-	12T	12T		
Dual Pull		X	X	-	X	X	X		
Multi Clamp Band		X	X	-	-	-	X		
Powerchange Mechanism		-	-	X	X	X	-		
Chainstay Angle 66 to 69 degrees	Braze-on		-	-	-	-	-		
	28.6mm	Top	X	X	•Chainstay Angle: 63 to 69 degrees •Max. 34.9mm •only Top swing	•Chainstay Angle: 63 to 69 degrees •Max. 34.9mm •only Top swing	X		
		Down	X	X					
	31.8mm	Top	X	X			X		
		Down	X	X			X		
	34.9mm	Top	X	X			X		
		Down	X	X			X		
	Chainstay Angle 63 to 66 degrees	Braze-on		-			-	-	-
28.6mm		Top	X	X			•Chainstay Angle: 63 to 69 degrees •Max. 34.9mm •only Top swing	•Chainstay Angle: 63 to 69 degrees •Max. 34.9mm •only Top swing	X
		Down	X	X					
31.8mm		Top	X	X	X				
		Down	X	X	X				
34.9mm		Top	X	X	X				
		Down	X	X	X				
Front Clamp Band		Material	Aluminum	Aluminum	-	-			Aluminum
		Finish	Painted	Painted	-	-			-
Rear Clamp Band		Material	Aluminum	Aluminum	-	-	Aluminum		
		Finish	Painted	Painted	-	-	-	Painted	
BB Plate		Material	-	-	Aluminum	Aluminum	Aluminum		
Outer Link		Material	Aluminum	Steel	Steel	Steel	Aluminum		
		Finish	Painted	Painted	Black Plated	Painted	Black Plated	Painted	
Inner Link		Material	Aluminum	Aluminum	Aluminum	Aluminum/Steel	Aluminum		
		Finish	Painted	Painted	Painted	Painted	Painted	Painted	
Chain Guide		Material	Steel	Steel	Steel	Steel	Steel		
		Finish	Pearl Bright	Chrome Plated	Chrome Plated	Pearl Bright Plated	Chrome Plated	Pearl Bright	
Note				Electrical FD *must be used with Super Narrow Chain		*must be used with Super Narrow Chain	*must be used with Super Narrow Chain		

Front Derailleur (ATB / NEXAVE) Specifications

Series		NEXAVE	NEXAVE	NEXAVE	NEXAVE	Non-Series	Alivio
Model No.		FD-C510	FD-T401-S	FD-T301	FD-T300	FD-MC21	FD-MC18-S
Rear Speeds		*8	8	7/8	7/8	8	8
Front SIS		X	X	X	X	X	X
Chain Ring		Triple	Triple	Triple	Triple	Triple	Triple
Top Swing Link		X	X	X	X	-	X
E-type BB Mount		-	-	-	-	-	-
Applicable Chain Line		50mm	47.5mm	47.5mm	47.5mm	47.5 / 50mm	47.5 / 50mm
Top Gear Teeth		46T	48T	48T	42T	42T	42T
Total Capacity		22T	20T	20T	18T	20T	20T
Top-Middle Min. Capacity		12T	10T	10T	8T	10T	10T
Dual Pull		X	-	-	-	X	-
Multi Clamp Band		X	-	-	-	X	-
Powerchange Mechanism		-	-	-	-	-	-
Chainstay Angle 66 to 69 degrees	Braze-on		-	-	-	-	-
	28.6mm	Top	X	X	X	X	X
		Down	X	X	X	X	X
	31.8mm	Top	X	X	X	X	X
		Down	X	X	X	X	X
	34.9mm	Top	X	X	-	-	X
		Down	X	X	-	-	X
	Chainstay Angle 63 to 66 degrees	Braze-on		-	-	-	-
28.6mm		Top	X	X	X	X	X
		Down	X	X	X	X	X
31.8mm		Top	X	X	X	X	X
		Down	X	X	X	X	X
34.9mm		Top	X	X	-	-	X
		Down	X	X	-	-	X
Front Clamp Band		Material	Aluminum	Aluminum	Steel	Steel	Aluminum
	Finish	Painted	Painted	Painted	Painted	Barrel	Chrome Plated
Rear Clamp Band	Material	Aluminum	Aluminum	Steel	Steel	Aluminum	Aluminum
	Finish	Painted	Barrel	Painted	Painted	Barrel	Barrel
BB Plate	Material	-	-	-	-	-	-
Outer Link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated
Inner Link	Material	Aluminum	Steel	Steel	Steel	Aluminum	Steel
	Finish	Painted	Chrome Plated	Painted	Painted	Barrel	Chrome Plated
Chain Guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Note		*must be used with Super Narrow Chain					

Front Derailleur (ATB / NEXAVE) Specifications

Series		Acera	Acera	C-Series	C-Series	C-Series	C-Series
Model No.		FD-M330	FD-M330-E	FD-C101-E	FD-C102	FD-C051	FD-C050
Rear Speeds		7/8	7/8	8/7	8/7	7/6	7/6
Front SIS		X	X	X	X	X	X
Chain Ring		Triple	Triple	Triple	Triple	Triple	Triple
Top Swing Link		X	X	X	X	X	X
E-type BB Mount		-	w/o Bolt	w/o Bolt	-	-	-
Applicable Chain Line		47.5 / 50mm	47.5 / 50mm	47.5 / 50mm	47.5 / 50mm	47.5 / 50mm	47.5 / 50mm
Top Gear Teeth		42T	42T	42T	48T	48T	42T
Total Capacity		20T	20T	18T	20T	20T	18T
Top-Middle Min. Capacity		10T	10T	8T	10T	10T	8T
Dual Pull		-	-	X	X	X	X
Multi Clamp Band		-	-	-	-	X	X
Powerchange Mechanism		-	-	-	-	-	-
Chainstay Angle 66 to 69 degrees	Braze-on		-	-	-	-	-
	28.6mm	Top	X	X	X	X	X
		Down	X	X	X	X	X
	31.8mm	Top	X	X	X	X	X
		Down	X	X	X	X	X
	34.9mm	Top	-	X*	X*	X	X
		Down	-	X*	X*	X	X
	Chainstay Angle 63 to 66 degrees	Braze-on		-	-	-	-
28.6mm		Top	X	X	X	-	-
		Down	X	X	X	-	-
31.8mm		Top	X	X	X	-	X
		Down	X	X	X	-	X
34.9mm		Top	-	-	-	-	-
		Down	-	-	-	-	-
Front Clamp Band		Material	Steel	-	-	Steel	Steel
	Finish	Pearl Bright	-	-	Zinc Plated	Zinc Plated	Zinc Plated
Rear Clamp Band	Material	Steel	-	-	Steel	Steel	Steel
	Finish	Painted	-	-	Zinc Plated	Zinc Plated	Zinc Plated
BB Plate	Material	-	Steel	Steel	-	-	-
Outer Link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated
Inner Link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Chain Guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Note			*For 50mm Chain Line only (BB width 73mm)	*For 50mm Chain Line only (BB width 73mm)			

Front Derailleur (ATB / NEXAVE) Specifications

Series		Altus	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.		FD-CT92-E	FD-TY30	FD-TY22-SS	FD-TY22-GS	FD-TY18	FD-TY15GS
Rear Speeds		8/7	7/6	7/6	7/6	6	5
Front SIS		X	X	-	-	-	-
Chain Ring		Triple	Triple	Double	Double	Triple	Triple
Top Swing Link		X	-	X	X	-	-
E-type BB Mount		w/o Bolt	-	-	-	-	-
Applicable Chain Line		47.5 / 50mm	47.5 / 50mm	43.5 / 45mm	47.5 / 50mm	47.5 / 50mm	47.5 / 50mm
Top Gear Teeth		42T	48T	48T or 38T	48T	-	-
Total Capacity		18T	22T	14T	20T	22T	22T
Top-Middle Min. Capacity		8T	10T	8T	10T	-	-
Dual Pull		-	-	-	-	-	-
Multi Clamp Band		-	-	-	-	-	-
Powerchange Mechanism		-	-	-	-	-	-
Chainstay Angle 66 to 69 degrees	Braze-on		-	-	-	-	-
	28.6mm	Top	X	-	-	X	-
		Down	X	X	X	X	X
	31.8mm	Top	X	-	-	X	-
		Down	X	-	-	X	X
	34.9mm	Top	X*	-	-	-	-
		Down	X*	-	-	-	-
	Chainstay Angle 63 to 66 degrees	Braze-on		-	-	-	-
28.6mm		Top	X	-	-	-	-
		Down	X	X	-	-	-
31.8mm		Top	X	-	-	-	-
		Down	X	-	-	-	-
34.9mm		Top	-	-	-	-	-
		Down	-	-	-	-	-
Front Clamp Band		Material	-	Steel	Steel	Steel	Steel
	Finish	-	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated
Rear Clamp Band	Material	-	Steel	Steel	Steel	Steel	Steel
	Finish	-	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated
BB Plate	Material	Steel	-	-	-	-	-
Outer Link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated
Inner Link	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated
Chain Guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Zinc Plated	Chrome Plated
Note		*For 50mm Chain Line only (BB width 73mm)					

Front Derailleur (ATB / NEXAVE) Specifications

Series		Tourney	Tourney	TZ	TZ
Model No.		FD-TY15SS	FD-TY10	FD-TZ30	FD-TZ31
Rear Speeds		5	7/6	7/6	7/6
Front SIS		-	X	-	-
Chain Ring		Double	Triple	Triple	Triple
Top Swing Link		-	-	-	-
E-type BB Mount		-	-	-	-
Applicable Chain Line		43.5 / 45mm	47.5 / 50mm	47.5 / 50mm	47.5 / 50mm
Top Gear Teeth		-	42T	42T	48T
Total Capacity		14T	18T	18T	20T
Top-Middle Min. Capacity		-	8T	8T	10T
Dual Pull		-	-	X	X
Multi Clamp Band		-	-	-	-
Powerchange Mechanism		-	-	-	-
Chainstay Angle 66 to 69 degrees	Braze-on		-	-	-
	28.6mm	Top	-	X	X
		Down	X	X	X
	31.8mm	Top	-	X	X
		Down	-	X	X
	34.9mm	Top	-	X*	-
		Down	-	X*	-
	Chainstay Angle 63 to 66 degrees	Braze-on		-	-
28.6mm		Top	-	-	-
		Down	-	-	-
31.8mm		Top	-	-	-
		Down	-	-	-
34.9mm		Top	-	-	-
		Down	-	-	-
Front Clamp Band		Material	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Painted	Painted
Rear Clamp Band	Material	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Painted	Painted
BB Plate	Material	-	-	-	-
Outer Link	Material	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Painted	Painted
Inner Link	Material	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Painted	Painted
Chain Guide	Material	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Zinc Plated	Painted	Painted
Note			*For 50mm Chain Line only (BB width 73mm)		

Shift Lever (ATB / NEXAVE) Specifications

Series	XTR	XTR	XTR	XTR	SAINT	Deore-XT
Model No.	ST-M961	ST-M966	ST-M952	SL-M952	ST-M800	ST-M760
Lever type	Dual Control	Dual Control	Rapidfire-M9	Rapidfire-M9	Dual Control	Dual Control
Front	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS
Rear	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS
SL cable adjust	X	X	X	X	X	X
Optical gear display	In-line Cylindrical Type	In-line Cylindrical Type	Detachable /Above handlebar	Detachable /Above handlebar	-	X
Multi-Bearing Construction	3	3	3	3	R:1 L:3	R:1 L:3
SL outer casing	SP41 sealed	SP41 sealed	SP40 sealed	SP40 sealed	SP41 sealed	SP41 sealed
Stainless SL cable	X	X	X	X	X	X
Flight Deck w/ Gear Sensor Compatible (Option)	-	-	X	X	-	-
W/ CI-DECK	-	-	-	-	-	-
SL Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
SL Compatible RD Type	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD
Note						

Shift Lever (ATB / NEXAVE) Specifications

Series	Deore-XT	Deore-XT	Deore-XT	Deore-XT	Deore-XT	HONE
Model No.	ST-M765	SL-M751-L	SL-M751-S	ST-M750	SL-M750	ST-M600
Lever type	Dual Control	Rapidfire-M9	Rapidfire-M9	Rapidfire-M9	Rapidfire-M9	Dual Control
Front	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS
Rear	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS
SL cable adjust	X	X	X	X	X	X
Optical gear display	X	Detachable /Above handlebar	Detachable /Above handlebar	Detachable /Above handlebar	Detachable /Above handlebar	X
Multi-Bearing Construction	R:1 L:3	R:2 R:2	R:2 R:2	R:2 R:2	R:2 R:2	- L:2
SL outer casing	SP41 sealed	SP41 sealed	SP41 sealed	SP40 sealed	SP40 sealed	SP41 sealed
Stainless SL cable	X	X	X	X	X	X
Flight Deck w/ Gear Sensor Compatible (Option)	-	X	X	X	X	-
W/ CI-DECK	-	-	-	-	-	-
SL Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
SL Compatible RD Type	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD
Note		Black Version	Silver Version			

Shift Lever (ATB / NEXAVE) Specifications

Series	Deore LX	Deore LX	Deore-LX	Deore-LX	Deore-LX	Deore-LX
Model No.	ST-M580	ST-M585	ST-M570-G	ST-M570	ST-M570-S	SL-M570-S
Lever type	Dual Control	Dual Control	Rapidfire-M9	Rapidfire-M9	Rapidfire-M9	Rapidfire-M9
Front	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS
Rear	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS
SL cable adjust	X	X	X	X	X	X
Optical gear display	X	X	Detachable /Above handlebar	Detachable /Above handlebar	Detachable /Above handlebar	Detachable /Above handlebar
Multi-Bearing Construction	- L:2	- L:2	-	-	-	-
SL outer casing	SP41 sealed	SP41 sealed	SP40 sealed	SP40 sealed	SP40 sealed	SP40 sealed
Stainless SL cable	X	X	X	X	X	X
Flight Deck w/ Gear Sensor Compatible (Option)	-	-	X	X	X	X
W/ CI-DECK	-	-	-	-	-	-
SL Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted(Gold)	Painted	Painted
SL Compatible RD Type	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD
Note			Gold Version		Silver/Black Version	Silver/Black Version

Shift Lever (ATB / NEXAVE) Specifications

Series	Deore-LX	Deore-LX	Deore	Deore	Deore	NEXAVE	
Model No.	SL-M570-G	SL-M570	ST-M510-L	ST-M510-S	SL-M510	SL-C600	
Lever type	Rapidfire-M9	Rapidfire-M9	Rapidfire-M9	Rapidfire-M9	Rapidfire-M9	Tap-Fire	
Front	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS	2 speed	
Rear	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS	9 speed SIS	
SL cable adjust	X	X	X	X	X	X	
Optical gear display	Detachable /Above handlebar	Detachable /Above handlebar	Above handlebar	Above handlebar	Above handlebar	R : Above handlebar, L:-	
Multi-Bearing Construction	-	-	-	-	-	-	
SL outer casing	SP40 sealed	SP40 sealed	SP40 sealed	SP40 sealed	SP40 sealed	SP40 sealed	
Stainless SL cable	X	X	X	X	X	X	
Flight Deck w/ Gear Sensor Compatible (Option)	X	X	X	X	X	-	
W/ CI-DECK	-	-	-	-	-	-	
SL Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	R : Aluminum, L:Aluminum+Resin
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
SL Compatible RD Type	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD	All 9 speed RD	Linear Action RD	
Note	Gold Version		Black Version	Silver Version	Black Version		

Shift Lever (ATB / NEXAVE) Specifications

Series	NEXAVE	NEXAVE	NEXAVE	NEXAVE	NEXAVE	Alivio
Model No.	ST-C530(L)	ST-C505(L)	ST-C503-A	ST-T400-S	ST-T300-S	ST-MC20-L
Lever type	Tap-Fire	Tap-Fire	Tap-Fire	Tap-Fire	Tap-Fire	Rapidfire Plus
Front	-	3 speed SPCM	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS
Rear	-	-	8 speed SIS	8 speed SIS	7 speed SIS	8 speed SIS
SL cable adjust	X	X	X	X	X	X
Optical gear display	Above handlebar	-	X	Dial type	Dial type	Slide type /below handlebar
Multi-Bearing Construction	-	-	-	-	-	-
SL outer casing	SP40 sealed	SP40 sealed	SP40 sealed	SP40 sealed	SP40	SP40
Stainless SL cable	X	X	X	X	Option	Option
Flight Deck w/ Gear Sensor Compatible (Option)	-	-	-	X	X	-
W/ CI-DECK	-	-	-	-	-	-
SL Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Polished
SL Compatible RD Type	-	-	Low Normal	Low Normal	Low Normal	Top Normal
Note	Special for INTEGO 3 speed	Special for SPCM3		RH Optical Gear Display for Rapid Rise RD	RH Optical Gear Display for Rapid Rise RD	Black Version

Shift Lever (ATB / NEXAVE) Specifications

Series	Alivio	Alivio	Alivio	Non-Series	Non-Series	Non-Series
Model No.	ST-MC20-S	SL-MC20	SL-MC40	ST-EF35-8R(LS) 2A	ST-EF35-7R(LS) 2A	ST-EF35-L(LS) 2A
Lever type	Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front	3 speed SIS	3 speed SIS	3 speed SIS	-	-	3 speed SIS
Rear	8 speed SIS	8 speed SIS	7 speed SIS	8 speed SIS	7 speed SIS	-
SL cable adjust	X	X	X	X	X	X
Optical gear display	Slide type/below handlebar	Slide type/below handlebar	Slide type /below handlebar	Dial type / C050-CID Compatible (After market)	Dial type / C050-CID Compatible (After market)	Dial type / C050-CID Compatible (After market)
Multi-Bearing Construction	-	-	-	-	-	-
SL outer casing	SP40	SP40	SP40	SP40	SP40	SP40
Stainless SL cable	Option	Option	Option	Option	Option	Option
Flight Deck w/ Gear Sensor Compatible (Option)	-	-	-	-	-	-
W/ CI-DECK	-	-	-	-	-	-
SL Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Silver Painted	Painted	Painted
SL Compatible RD Type	Top Normal	Top Normal	Top Normal	Top Normal	Top Normal	-
Note	Silver Version					

Shift Lever (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF29-8R(LL) 4A	ST-EF29-8R(LS) 4A	ST-EF29-7R(LL) 4A	ST-EF29-7R(LS) 4A	ST-EF29-L(LL) 4A	ST-EF29-L(LS) 4A
Lever type	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front	-	-	-	-	3 speed SIS	3 speed SIS
Rear	8 speed SIS	8 speed SIS	7 speed SIS	7 speed SIS	-	-
SL cable adjust	X	X	X	X	X	X
Optical gear display	Dial type / C050-CID Compatible (After market)	Dial type / C050-CID Compatible (After market)	Dial type / * w/ CI-DECK type Compatible	Dial type / * w/ CI-DECK type Compatible	Dial type / * w/ CI-DECK type Compatible	Dial type / * w/ CI-DECK type Compatible
Multi-Bearing Construction	-	-	-	-	-	-
SL outer casing	SP40	SP40	SP40	SP40	SP40	SP40
Stainless SL cable	-	-	-	-	-	-
Flight Deck w/ Gear Sensor Compatible (Option)	-	-	-	-	-	-
W/ CI-DECK	-	-	-	-	-	-
SL Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
SL Compatible RD Type	Top Normal	Top Normal	Top Normal	Top Normal	-	-
Note	*All Black Version *4-Finger Alloy Brake Lever	*Silver Bracket Version *4-Finger Alloy Brake Lever	*All Black Version *4-Finger Alloy Brake Lever	*Silver Bracket Version *4-Finger Alloy Brake Lever	*All Black Version *4-Finger Alloy Brake Lever	*Silver Bracket Version *4-Finger Alloy Brake Lever

Shift Lever (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF29-8R(LL)	ST-EF29-8R(LS)	ST-EF29-7R(LL)	ST-EF29-7R(LS)	ST-EF29-L(LL)	ST-EF29-L(LS)
Lever type	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus	EZ-fire Plus
Front	-	-	-	-	3 speed SIS	3 speed SIS
Rear	8 speed SIS	8 speed SIS	7 speed SIS	7 speed SIS	-	-
SL cable adjust	X	X	X	X	X	X
Optical gear display	Dial type / * w/ CI-DECK type Compatible	Dial type / * w/ CI-DECK type Compatible	Dial type / * w/ CI-DECK type Compatible	Dial type / * w/ CI-DECK type Compatible	Dial type / * w/ CI-DECK type Compatible	Dial type / * w/ CI-DECK type Compatible
Multi-Bearing Construction	-	-	-	-	-	-
SL outer casing	SP40	SP40	SP40	SP40	SP40	SP40
Stainless SL cable	-	-	-	-	-	-
Flight Deck w/ Gear Sensor Compatible (Option)	-	-	-	-	-	-
W/ CI-DECK	-	-	-	-	-	-
SL Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
SL Compatible RD Type	Top Normal	Top Normal	Top Normal	Top Normal	-	-
Note	All Black Version	Silver Bracket Version	All Black Version	Silver Bracket Version	All Black Version	Silver Bracket Version

Shift Lever (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	SB-C055A-8R(SL) 4A	SB-C055A-8R(SL) 2A	SB-C055A-7R(SL) 4A	SB-C055A-7R(SL) 2A	SB-C055A-L(SL) 4A	SB-C055A-L(SL) 2A
Lever type	Revo Shift	Revo Shift	Revo Shift	Revo Shift	Revo Shift	Revo Shift
Front	-	-	-	-	3 speed SIS	3 speed SIS
Rear	8 speed SIS	8 speed SIS	7 speed SIS	7 speed SIS	-	-
SL cable adjust	-	-	-	-	X	X
Optical gear display	Revolving type / * w/ CI-DECK type Compatible	Revolving type / * w/ CI-DECK type Compatible	Revolving type / * w/ CI-DECK type Compatible	Revolving type / * w/ CI-DECK type Compatible	Revolving type / * w/ CI-DECK type Compatible	Revolving type / * w/ CI-DECK type Compatible
Multi-Bearing Construction	-	-	-	-	-	-
SL outer casing	SIS40	SIS40	SIS40	SIS40	SIS40	SIS40
Stainless SL cable	-	-	-	-	-	-
Flight Deck w/ Gear Sensor Compatible (Option)	-	-	-	-	-	-
W/ CI-DECK	-	-	-	-	-	-
SL Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
SL Compatible RD Type	Top Normal	Top Normal	Top Normal	Top Normal	-	-
Note	*4 Finger Alloy Brake Lever	*2 Finger Alloy Brake Lever	*4 Finger Alloy Brake Lever	*2 Finger Alloy Brake Lever	*4 Finger Alloy Brake Lever	*2 Finger Alloy Brake Lever

Shift Lever (ATB / NEXAVE) Specifications

Series	Tourney	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.	SL-RS41-8R	SL-RS41-7R	SL-RS41-6R	SL-RS41-L	SL-RS31-7R	SL-RS31-6R
Lever type	Revo Shift	Revo Shift	Revo Shift	Revo Shift	Revo Shift	Revo Shift
Front	-	-	-	3 speed SIS	-	-
Rear	8 speed SIS	7 speed SIS	6 speed SIS	-	7 speed SIS	6 speed SIS
SL cable adjust	X	X	X	X	-	-
Optical gear display	Revolving type/ * w/ CI-DECK type Compatible	Revolving type/ * w/ CI-DECK type Compatible	Revolving type/ * w/ CI-DECK type Compatible	Revolving type/ * w/ CI-DECK type Compatible	Revolving type/ * w/ CI-DECK type Compatible	Revolving type/ * w/ CI-DECK type Compatible
Multi-Bearing Construction	-	-	-	-	-	-
SL outer casing	SIS40	SIS40	SIS40	SIS40	SIS40	SIS40
Stainless SL cable	-	-	-	-	-	-
Flight Deck w/ Gear Sensor Compatible (Option)	-	-	-	-	-	-
W/ CI-DECK	-	-	-	-	-	-
SL Bracket	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
SL Compatible RD Type	Top Normal	Top Normal	Top Normal	-	Top Normal	Top Normal
Note						

Shift Lever (ATB / NEXAVE) Specifications

Series	Tourney	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.	SL-RS31-5R	SL-RS31-L	SL-RS31-LA	SL-TY22-7	SL-TY22-A	SL-TY22
Lever type	Revo Shift	Revo Shift	Revo Shift	Thumb Shifter	Thumb Shifter	Thumb Shifter
Front	-	Ratchet	3 speed SIS	-	3 speed SIS	Friction
Rear	5 speed SIS	-	-	7 speed SIS	-	6 speed SIS
SL cable adjust	-	X	X	-	X	-
Optical gear display	Revolving type/ * w/ CI-DECK type Compatible	Revolving type/ * w/ CI-DECK type Compatible	Revolving type/ * w/ CI-DECK type Compatible	Dial type	Dial type	Dial type
Multi-Bearing Construction	-	-	-	-	-	-
SL outer casing	SIS40	SIS40	SIS40	SIS40	SIS40	SIS40
Stainless SL cable	-	-	-	-	-	-
Flight Deck w/ Gear Sensor Compatible (Option)	-	-	-	-	-	-
W/ CI-DECK	-	-	-	-	-	-
SL Bracket	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Painted	Painted
SL Compatible RD Type	Top Normal	-	-	Top Normal	Top Normal	Top Normal
Note	Not compatible with ID-TX50					Black or Yellow Sticker Available

Shift Lever (ATB / NEXAVE) Specifications

Series	Tourney	Tourney	
Model No.	SL-TY18	SL-TY15-A	
Lever type	Thumb Shifter	Thumb Shifter	
Front	Friction	Friction	
Rear	6 speed SIS	5 speed SIS	
SL cable adjust	-	-	
Optical gear display	Dial type	Dial type	
Multi-Bearing Construction	-	-	
SL outer casing	SIS40	SIS40	
Stainless SL cable	-	-	
Flight Deck w/ Gear Sensor Compatible (Option)	-	-	
W/ CI-DECK	-	-	
SL Bracket	Material	Steel	Steel
	Finish	Painted	Painted
SL Compatible RD Type	Top Normal	Top Normal	
Note			

Brake Lever (ATB / NEXAVE) Specifications

Series	XTR	XTR	XTR	XTR	Deore-XT
Model No.	ST-M961	ST-M966	ST-M952	BL-M950	ST-M760
Brake type	V-brake	Hydraulic Disc-brake	V-brake	V-brake	V-brake
Lever size	1.5 finger	1.5 finger	1.5 finger	1.5 finger	1.5 finger
Brake cable type	W-type	-	W-type	W-type	W-type
Power adjuster	X	-	X	X	X
Servo-Wave Action	X	-	X	X	X
Reach adjust	X	X	X	X	X
Cable adjust	X	-	X	X	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Note					

Brake Lever (ATB / NEXAVE) Specifications

Series	Deore-XT	Deore-XT	SAINT	SAINT	Deore-XT	Deore-XT
Model No.	ST-M765	ST-M750	ST-M800	BL-M800	BL-M756S	BL-M739-S
Brake type	Hydraulic Disc-brake	V-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	Hydraulic Disc-brake	V-brake
Lever size	1.5 finger	1.5 finger	1.5 finger	1.5 finger	1.5 finger	1.5 finger
Brake cable type	-	W-type	-	-	-	W-type
Power adjuster	-	X	-	-	-	X
Servo-Wave Action	-	X	-	-	-	X
Reach adjust	X	X	X	X	X	X
Cable adjust	-	X	-	-	-	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Note						

Brake Lever (ATB / NEXAVE) Specifications

Series	HONE	Deore-LX	Deore-LX	Deore-LX	Deore-LX	Deore-LX
Model No.	ST-M600	ST-M585	ST-M580	BL-M585	ST-M570-S	ST-M570-G
Brake type	Hydraulic Disc-brake	Hydraulic Disc-brake	V-brake	Hydraulic Disc-brake	V-brake	V-brake
Lever size	1.5 finger	1.5 finger	1.5 finger	1.5 finger	1.5 finger	1.5 finger
Brake cable type	-	-	T-type	-	T-type	T-type
Power adjuster	-	-	-	-	X	X
Servo-Wave Action	-	-	-	-	X	X
Reach adjust	X	X	X	X	X	X
Cable adjust	-	-	X	-	X	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized(Black)
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted(Gold)
Note					Silver/Black Version	Gold Version

Brake Lever (ATB / NEXAVE) Specifications

Series	Deore-LX	Deore-LX	Deore-LX	Deore-LX	Deore	Deore
Model No.	ST-M570	BL-M570-G	BL-M570	BL-M570-S	BL-M556	BL-M525
Brake type	V-brake	V-brake	V-brake	V-brake	Hydraulic Disc-brake	Hydraulic Disc-brake
Lever size	1.5 finger	1.5 finger	1.5 finger	1.5 finger	1.5 finger	1.5 finger
Brake cable type	T-type	T-type	T-type	T-type	-	-
Power adjuster	X	X	X	X	-	-
Servo-Wave Action	X	X	X	X	-	-
Reach adjust	X	X	X	X	X	X
Cable adjust	X	X	X	X	-	-
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized(Black)	Anodized	Anodized(Black)	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted(Gold)	Painted	Painted(Gold)	Painted
Note		Gold Version		Silver&Black Version		

Brake Lever (ATB / NEXAVE) Specifications

Series	Deore	Deore	NEXAVE	NEXAVE	NEXAVE	NEXAVE
Model No.	BL-M510-L	BL-M510-S	BL-C901	BL-C800	BL-C600	ST-C530(L)
Brake type	V-brake	V-brake	Hydraulic Disc-brake	* V with modulator /Canti, Roller brake	*V-brake	*V with modulator /Canti, Roller brake
Lever size	2 finger	2 finger	4 finger	3 finger	4 finger	4 finger
Brake cable type	T-type	T-type	-	T-type	T-type	T-type
Power adjuster	-	-	-	-	-	-
Servo-Wave Action	-	-	-	-	-	-
Reach adjust	X	X	X	X	X	X
Cable adjust	X	X	-	X	X	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Barrel	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Note	Black Version	Silver Version		*V-brake and Mechanical Disc Brake must be used with power modulator.	*Power modulator system integrated	*V-brake and Mechanical Disc Brake must be used with power modulator.

Brake Lever (ATB / NEXAVE) Specifications

Series		NEXAVE	NEXAVE	NEXAVE	NEXAVE	NEXAVE	Alivio
Model No.		ST-C505(L)	ST-C503-A	ST-T400-S	ST-T300-S	BL-T400	ST-MC20-L
Brake type		*V with modulator /Canti, Roller brake	*V with modulator /Canti, Roller brake	*V with modulator /Canti, Roller brake	* V with modulator /Canti, Roller brake	* V with modulator /Canti, Roller brake	V-brake
Lever size		4 finger	4 finger	3 finger	3 finger	3 finger	2 finger
Brake cable type		T-type	T-type	T-type	T-type	T-type	T-type
Power adjuster		-	-	-	-	-	-
Servo-Wave Action		-	-	-	-	-	-
Reach adjust		X	X	X	X	X	X
Cable adjust		X	X	X	X	X	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Barrel	Barrel	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted
Note		*V-brake and Mechanical Disc Brake must be used with power modulator.	*V-brake and Mechanical Disc Brake must be used with power modulator.	*V-brake and Mechanical Disc Brake must be used with power modulator.	*V-brake and Mechanical Disc Brake must be used with power modulator.	*V-brake and Mechanical Disc Brake must be used with power modulator.	Black Version

Brake Lever (ATB / NEXAVE) Specifications

Series	Alivio	Non-series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-MC20-S	BL-M420	ST-EF35-8R(LS) 2A	ST-EF35-7R(LS) 2A	ST-EF35-L(LS) 2A	ST-EF29-8R(LL) 4A
Brake type	V-brake	V-brake	V-brake	V-brake	V-brake	HRB/Canti brake V-brake*
Lever size	2 finger	2 finger	2 finger	2 finger	2 finger	4 finger
Brake cable type	T-type	T-type	T-type	T-type	T-type	T-type
Power adjuster	-	-	-	-	-	-
Servo-Wave Action	-	-	-	-	-	-
Reach adjust	X	-	X	X	X	X
Cable adjust	X	X	X	X	X	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Barrel	Anodized	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Note	Silver Version					*V-brake and Mechanical Disc Brake must be used with power modulator. *INTER-M (BR-C050) Compatible

Brake Lever (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	ST-EF29-8R(LS) 4A	ST-EF29-7R(LL) 4A	ST-EF29-7R(LS) 4A	ST-EF29-L(LL) 4A	ST-EF29-L(LS) 4A	ST-EF29-8R(LS)
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*	V-brake
Lever size	4 finger	4 finger	4 finger	4 finger	4 finger	2 finger
Brake cable type	T-type	T-type	T-type	T-type	T-type	T-type
Power adjuster	-	-	-	-	-	-
Servo-Wave Action	-	-	-	-	-	-
Reach adjust	X	X	X	X	X	X
Cable adjust	X	X	X	X	X	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Barrel	Anodized	Barrel	Anodized	Barrel
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Note	*V-brake and Mechanical Disc Brake must be used with power modulator. *INTER-M (BR-C050) Compatible	*V-brake and Mechanical Disc Brake must be used with power modulator. *INTER-M (BR-C050) Compatible	*V-brake and Mechanical Disc Brake must be used with power modulator. *INTER-M (BR-C050) Compatible	*V-brake and Mechanical Disc Brake must be used with power modulator. *INTER-M (BR-C050) Compatible	*V-brake and Mechanical Disc Brake must be used with power modulator. *INTER-M (BR-C050) Compatible	

Brake Lever (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	C-Series	Non-Series
Model No.	ST-EF29-8R(LL)	ST-EF29-7R(LS)	ST-EF29-7R(LL)	ST-EF29-L(LS)	ST-EF29-L(LL)	SB-C055A-8R(SL) 4A
Brake type	V-brake	V-brake	V-brake	V-brake	V-brake	HRB/Canti brake V-brake*
Lever size	2 finger	2 finger	2 finger	2 finger	2 finger	4 finger
Brake cable type	T-type	T-type	T-type	T-type	T-type	T-type
Power adjuster	-	-	-	-	-	-
Servo-Wave Action	-	-	-	-	-	-
Reach adjust	X	X	X	X	X	X
Cable adjust	X	X	X	X	X	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Barrel	Anodized	Barrel	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Note	Black Anodized		Black Anodized		Black Anodized	*V-brake and Mechanical Disc Brake must be used with power modulator. *INTER-M (BR-C050) Compatible

Brake Lever (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	SB-C055A-8R(SL) 2A	SB-C055A-7R(SL) 4A	SB-C055A-7R(SL) 2A	SB-C055A-L(SL) 4A	SB-C055A-L(SL) 2A
Brake type	V-brake	HRB/Canti brake V-brake*	V-brake	HRB/Canti brake V-brake*	V-brake
Lever size	2 finger	4 finger	2 finger	4 finger	2 finger
Brake cable type	T-type	T-type	T-type	T-type	T-type
Power adjuster	-	-	-	-	-
Servo-Wave Action	-	-	-	-	-
Reach adjust	X	X	X	X	X
Cable adjust	X	X	X	X	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Barrel	-	Barrel	-
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Note		*V-brake and Mechanical Disc Brake must be used with power modulator. *INTER-M (BR-C050) Compatible		*V-brake and Mechanical Disc Brake must be used with power modulator. *INTER-M (BR-C050) Compatible	

Brake (ATB / NEXAVE) Specifications

Series	XTR	Deore XT	Deore LX	Deore LX	Deore LX	Deore LX
Model No.	BR-M960	BR-M760	BR-M580	BR-M570-G	BR-M570-S	BR-M570
Brake type	V-brake	V-brake	V-brake	V-brake	V-brake	V-brake
Link Wire	-	-	-	-	-	-
Reinforced Link	X	X	-	X	X	X
Parallel link	X	X	-	X	X	X
Power Modulator	-	-	-	-	-	-
Linear Spring	X	X	X	X	X	X
Threaded BR Shoe Post	X	X	X	X	X	X
Brake shoe type	Standard	M70R2	S70C	S70T	S70T	S70T
	Optional choice	Shoe for ceramic coated rim	Shoe for ceramic coated rim M70R2 M70T3 M70T4	M70T3 M70T4	M70T3	M70T4
Arch size	-	-	-	-	-	-
Fixing bolt length	18/21.5/30.5mm	22/25/34mm	16/25mm	22/25/34mm	22/25/35mm	22/25/34mm
Sleeve & Bushing type	X	X	X	X	X	X
Lead Pipe Angle	45/90/135	45/90/135	45/90/135	45/90/135	45/90/136	45/90/135
Canti lever /V-arm /Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Painted	Painted
Cartridge Shoe Holder	X	X	X	-	-	-
Note				Gold Version	Silver&Black Version	

Brake (ATB / NEXAVE) Specifications

Series	Non-Series	Deore	Deore	Deore	Deore	NEXAVE	
Model No.	BR-R550	BR-M510-LC	BR-M510-SC	BR-M510-L	BR-M510-S	BR-C600	
Brake type	Canti-brake	V-brake	V-brake	V-brake	V-brake	V-brake	
Link Wire	Alignment (E/F)	-	-	-	-	-	
Reinforced Link	-	-	-	-	-	-	
Parallel link	-	-	-	-	-	-	
Power Modulator	-	-	-	-	-	-	
Linear Spring	X	X	X	X	X	X	
Threaded BR Shoe Post	X	X	X	X	X	X	
Brake shoe type	Standard	S70C(*SC shoe)	S70C	S70C	S70T	S70T	M70W
	Optional choice	M70R2(*SC shoe)	M70R2	M70R2	M70T3	M70T3	-
		M70CT4(*SC shoe)			M70T4	M70T4	
Arch size	-	-	-	-	-	-	
Fixing bolt length	16/25mm	16/25mm	16/25mm	16/25mm	16/25mm	16/25mm	
Sleeve & Bushing type	X	X	X	X	X	X	
Lead Pipe Angle	-	45/90/135	45/90/135	45/90/135	45/90/135	45/90/135	
Canti lever /V-arm /Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Cartridge Shoe Holder	X	X	X	-	-	-	
Note	*SC shoe: Severe Condition Shoe	Black Version	Silver Version	Black Version	Silver Version		

Brake (ATB / NEXAVE) Specifications

Series	NEXAVE	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model No.	BR-T300	BR-T300-S	BR-M430-L	BR-M430-S	BR-M420-L	BR-M420-S	
Brake type	V-brake	V-brake	V-brake	V-brake	V-brake	V-brake	
Link Wire	-	-	-	-	-	-	
Reinforced Link	-	-	-	-	-	-	
Parallel link	-	-	-	-	-	-	
Power Modulator	X	X	-	-	-	-	
Linear Spring	X	X	X	X	X	X	
Threaded BR Shoe Post	X	X	X	X	X	X	
Brake shoe type	Standard	S70T	S70T	S70C	S70C	S65T	S65T
	Optional choice	M70T3	M70T3	M70R2	M70R2	M65T3 M70T4	M65T3 M70T4
Arch size	-	-	-	-	-	-	
Fixing bolt length	22/25/34mm	22/25/34mm	16/25mm	16/25mm	16/25mm	16/25mm	
Sleeve & Bushing type	X	X	X	X	X	X	
Lead Pipe Angle	45/90/135	45/90/135	45/90/135	45/90/135	45/90/135	45/90/135	
Canti lever /V-arm /Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Barrel	Barrel	Painted	Painted	Painted	Painted
Cartridge Shoe Holder	-	-	X	X	-	-	
Note	With 3 Mode Power Modulator	With 3 Mode Power Modulator	Black Version	Silver Version	Black Version	Silver Version	

Disc Brake (ATB / NEXAVE) Specifications

Brake Caliper

Series		XTR	XTR	SAINT	Deore XT	Deore XT
Model No.		BR-M965	BR-M966	BR-M800	BR-M765	BR-M755-DH
Brake type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Recommended brake lever		ST-M966	ST-M966	ST-M800 BL-M800	ST-M765 BL-M756S	BL-M756S
Recommended brake rotor		SM-RT96 SM-RT75S	SM-RT96 SM-RT75S	SM-RT80 SM-RT80S SM-RT75S SM-RT75-DH	SM-RT77 SM-RT77L SM-RT75S	SM-RT75-DH
Hydraulic or Mechanical		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Oil		Mineral	Mineral	Mineral	Mineral	Mineral
Mount type		International standard	Post mount	International standard Post-type/Boxxer-type	International standard Post-type	*1
Piston	Opposed 4-Piston	-	-	-	-	X
	Opposed 2-Piston	X	X	X	X	-
	Different Piston Sizes	-	-	-	-	X
	1-piston	-	-	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Painted	Painted	Anodized
PAD	Standard	M07 Resin	M07 Resin	M06 Metal	M07-S Resin	M03 Metal
	Option	M06 Metal	M06 Metal	M07-S Resin	M06 Metal	M04 Resin
Hose		SM-BH96	SM-BH96	SM-BH63	SM-BH63	SM-BH63
Note			Front Only			*1 Front: Boxxer, Post (Manitou) & International Standard (OLD:100mm) Mounting available. Rear: International standard

Disc Brake (ATB / NEXAVE) Specifications

Brake Caliper

Series		HONE	Deore LX	Deore	Deore	NEXAVE
Model No.		BR-M601	BR-M585	BR-M555	BR-M555-M	BR-C901
Brake type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Recommended brake lever		ST-M600 BL-M525	ST-M585 BL-M585	BL-M585	BL-M585	BL-C901
Recommended brake rotor		SM-RT62 SM-RT62L	SM-RT62 SM-RT62L	SM-RT61	SM-RT61	SM-RT61
Hydraulic or Mechanical		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Oil		Mineral	Mineral	Mineral	Mineral	Mineral
Mount type		International standard Post-type	International standard Post-type	International standard	Post mount	International standard
Piston	Opposed 4-Piston	-	-	-	-	-
	Opposed 2-Piston	X	X	X	X	X
	Different Piston Sizes	-	-	-	-	-
	1-piston	-	-	-	-	-
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Anodized	Anodized	Anodized
PAD	Standard	M06 Metal	M07-S Resin	M01 Metal	M01 Metal	C01 Metal
	Option	M07-S Resin	M06 Metal	M02 Resin	M02 Resin	-
Hose		SM-BH59	SM-BH59	SM-BH63	SM-BH63	SM-BH60/61
Note					For Manitou fork Front only	

Disc Brake (ATB / NEXAVE) Specifications

Brake Caliper

Series		Deore	Deore	Deore	Non-Series	Non-Series
Model No.		BR-M525	BR-M515-LA	BR-M515-LA-M	BR-M495	BR-M475
Brake type		Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Recommended brake lever		BL-M525	V-brake BL (1.5-2.5finger)	V-brake BL (1.5-2.5finger)	V-brake BL (1.5-2.5 finger)	V-brake BL (1.5-2.5finger)
Recommended brake rotor		SM-RT61	SM-RT61	SM-RT61	SM-RT52	SM-RT50
Hydraulic or Mechanical		Hydraulic	Mechanical	Mechanical	Mechanical	Mechanical
Oil		Mineral	-	-	-	-
Mount type		*1	International standard	Post mount	*1	*1
Piston	Opposed 4-Piston	-	-	-	-	-
	Opposed 2-Piston	X	-	-	-	-
	Different Piston Sizes	-	-	-	-	-
	1-piston	-	X	X	X	X
Caliper	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum/Steel
	Finish	Anodized	Painted	Painted	Painted	Painted
PAD	Standard	M08 Resin	M05 Resin	M05 Resin	M08 Resin	M08 Resin
	Option	-	-	-	-	-
Hose		SM-BH59	Cable	Cable	Cable	Cable
Note		*1 FRONT MOUNT: International standard /Post mount REAR MOUNT: International standard		For Manitou fork Front only	*1 FRONT MOUNT: International standard /Post mount REAR MOUNT: International standard	*1 FRONT MOUNT: International standard /Post mount REAR MOUNT: International standard

Disc Brake (ATB / NEXAVE) Specifications

Brake Caliper

Series		Non-Series	NEXAVE
Model No.		BR-M465	BR-C501
Brake type		Disc-brake	Disc-brake
Recommended brake lever		V-brake BL (1.5-2.5 finger)	V-brake (w/modulator, 4 finger)
Recommended brake rotor		SM-RT52	SM-RT50
Hydraulic or Mechanical		Mechanical	Mechanical
Oil		-	-
Mount type		*1	*1
Piston	Opposed 4-Piston	-	-
	Opposed 2-Piston	-	-
	Different Piston Sizes	-	-
	1-piston	X	X
Caliper	Material	Aluminum/Steel	Aluminum / Steel
	Finish	Painted	Painted
PAD	Standard	M08 Resin	M08 Resin
	Option	-	-
Hose		Cable	Cable
Note		*1 FRONT MOUNT: International standard /Post mount REAR MOUNT: International standard	*1 FRONT MOUNT: International standard /Post mount REAR MOUNT: International standard

Disc Brake (ATB / NEXAVE) Specifications

Brake Lever

Series	XTR	Deore XT	SAINT	SAINT	Deore XT	HONE
Model No.	ST-M966	ST-M765	ST-M800	BL-M800	BL-M756S	ST-M600
Brake type	Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Recommended brake caliper	BR-M965	BR-M765	BR-M800	BR-M800	BR-M765	BR-M600
Oil	Mineral	Mineral	Mineral	Mineral	Mineral	Mineral
Master cylinder	X	X	X	X	X	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted
Brake Hose	SM-BH96	SM-BH63	SM-BH63	SM-BH63	SM-BH63	SM-BH59
Note						

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Disc Brake (ATB / NEXAVE) Specifications

Brake Lever

Series		Deore LX	Deore LX	Deore	NEXAVE
Model No.		ST-M585	BL-M585	BL-M525	BL-C901
Brake type		Disc-brake	Disc-brake	Disc-brake	Disc-brake
Recommended brake caliper		BR-M585	BR-M585	BR-M525	BR-C901
Oil		Mineral	Mineral	Mineral	Mineral
Master cylinder		X	X	X	X
Brake lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Barrel F	Anodized
Brake bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted
Brake Hose		SM-BH59	SM-BH59	SM-BH59	SM-BH60/61
Note					

Disc Brake (ATB / NEXAVE) Specifications

Brake Rotor

Series	XTR	SAINT	SAINT	Deore XT	Deore XT	Deore XT	Deore XT
Model No.	SM-RT96	SM-RT80	SM-RT80S	SM-RT77	SM-RT77L	SM-RT75S	SM-RT75M
Brake type	Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Outside Diameter	160mm	203mm	160mm	160mm	203mm	160mm	170mm
PCD (mm)	-	-	-	-	-	44mm	44mm
Material	Stainless/Aluminum	Stainless/Aluminum	Stainless/Aluminum	Stainless/Aluminum	Stainless/Aluminum	Stainless	Stainless
Finish	Polished/Anodized	Polished/Anodized	Polished/Anodized	Polished/Anodized	Polished/Anodized	Polished	Polished
Center lock type	X	X (Large Size)	X (Large Size)	X	X	-	-
Note							for Manitou suspension *Only for front side *Not available for '2000 Manitou Mars CL

Disc Brake (ATB / NEXAVE) Specifications

Brake Rotor

Series	Deore XT	Deore LX/HONE	Deore LX/HONE	Deore / NEXAVE	Non-Series	Non-Series
Model No.	SM-RT75-DH	SM-RT62	SM-RT62-L	SM-RT61	SM-RT52	SM-RT50
Brake type	Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake	Disc-brake
Outside Diameter	203mm	160mm	203mm	160mm	160mm	160mm
PCD (mm)	44mm	-	-	44mm	-	44mm
Material	Stainless	Stainless Steel	Stainless Steel	Stainless	Stainless Steel	Stainless
Finish	Polished	Polished	Polished	Polished	Polished	Polished
Center lock type	-	X	X	-	X	-
Note	For BR-M755-DH				For Resin Pad Only	For Resin Pad Only

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Disc Brake (ATB / NEXAVE) Specifications

Hydraulic Brake Hose

Series		XTR		SAINT/Deore		Deore/NEXAVE	
Model No.		SM-BH96		SM-BH63		SM-BH59	
Recommended brake lever		ST-M965/M966		ST-M800 ST-M765 BL-M756S		BL/BR-M525 ST-M600 ST-M585 BL-M585	
Material		Resin		Resin		Resin	
Hose length (mm)	Front	Right	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm
		Left	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm
	Rear	Right	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm
		Left	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm	900/1300/1700mm
Note		Cutttable / For BR and BL assembly:supplied by 50mm		Cutttable / For BR and BL assembly:supplied by 50mm		Cutttable / For BR and BL assembly:supplied by 50mm	



Hub Roller Brake Specifications

Function Name		Inter-M										
Model NO.		BR-IM75	BR-IM70		BR-IM50		BR-C050-IM		BR-IM41		BR-IM31	
		Front	Front	Rear	Front	Rear	Front	Rear	Front	Rear	Front	Rear
Brake Type	Multi condition	X	X	X	-	-	X	X	-	-	-	-
	Regular	-	-	-	X	X	-	-	X	X	X	X
Cooling Fin Diameter		150mm	150mm	150mm	130mm	130mm	160mm	160mm	90mm	100mm	90mm	90mm
Structure		Hyper	Hyper	Hyper	Normal	Normal	Hyper	Hyper	Normal	Normal	Normal	Normal
Without Cooling Fin		-	-	-	-	-	-	-	-	-	Available	Available
Inner Cable Quick Release		X	X	X	X	X	X	X	X	X	-	-
Disc Brake mount Compatible		X	-	-	-	-	-	-	-	-	-	-
Note												


Power Modulator (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	Non-Series
Model No.	SM-PM60	SM-PM50	SM-PM40
Available Lead Pipe Angle	-	-	90° / 135°
Body Material	Aluminum	Aluminum	Aluminum
Body Finish	Barrel and Printed	Barrel and Printed	Barrel and Printed
Lead Pipe Material	-	-	Stainless
Compatible Brake	Any Shimano V-brake (Except:BRT400/T300)	BR-C501	Any Shimano V-brake without power modulator
Compatible BL	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
Note	Silver Version	Silver Version	Black, Red or Blue Version






Front Chainwheel (ATB / NEXAVE) Specifications

Series	XTR	SAINT	SAINT	SAINT	SAINT	SAINT	
Model No.	FC-M960	FC-M805-3	FC-M805-2	FC-M805-1	FC-M800-3	FC-M800-2	
Rear Speeds	9	9	9	9	9	9	
Chainring Combination	44-32-22T (24T Option)	44-32-22T	32-22T	34/38/42/46T	44-32-22T	32-22T	
Group	V:22T,W:24T	S	S	-	S	S	
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm	4arm	
PCD (mm)	146/102/64	104/64mm	104/64mm	104/64mm	104/64mm	104/64mm	
Crank Arm Length	160mm	-	-	-	-	-	
	165mm	X	X	X	X	X	
	167.5mm	X	-	-	-	-	
	170mm	X	X	X	X	X	
	172.5mm	X	-	-	-	-	
	175mm	X	X	X	X	X	
	177.5mm	X	-	-	-	-	
	180mm	X	X	X	X	X	
Chain	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	
Bottom Bracket	Included	included	included	included	Included	Included	
Axle Length	Chain Line 47.5	-	Chain Line 57.5	Chain Line 57.5	Chain Line 57.5	-	
	Chain Line 50	X				X	X
	Chain Line 52.5	-				-	-
	Chain Line 47.5+t	-				-	-
Fixing Nut Available	-	-	-	-	-	-	
Optional Chain Guard	-	-	With Bash Guard	-	-	With Bash Guard	
Hollowtech Crank Arm	X 	X 	X 	X 	X 	X 	
Splined Crank (OCTALINK)	X	X	X	X	X	X	
One-key Release	-	-	-	-	-	-	
Chain Case Compatible Crank Arm	-	-	-	-	-	-	
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	
Spider Arm	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	-	Painted	Painted	Painted	Painted	
Spider Arm Cover	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Outer Ring	Material	7075 Aluminum	7075 Aluminum	-	7075 Aluminum	7075 Aluminum	
	Finish	Anodized	Anodized	-	Anodized	Anodized	
Middle Ring	Material	7075 Aluminum	Aluminum	Aluminum	-	Aluminum	
	Finish	Plated	Plated	Plated	-	Plated	
Inner Ring	Material	7075 Aluminum	Aluminum	Aluminum	-	Aluminum	
	Finish	Plated	Plated	Plated	-	Plated	
Note	for 68/73mm BB shell width	Triple for 83mm BB shell width	Double for 83mm BB shell width	Single for 83mm BB shell width	Triple for 68/73mm BB shell width	Double for 68/73mm BB shell width	






Front Chainwheel (ATB / NEXAVE) Specifications

Series	SAINT	Deore XT	Deore XT	HONE	Deore LX	Deore LX	Deore LX	
Model No.	FC-M800-1	FC-M760	FC-M761	FC-M600-3	FC-M580	FC-M581	FC-M572-S	
Rear Speeds	9	9	9	9	9	9	9	
Chainring Combination	34/38/42/46T	44-32-22T	48-36-26T	44-32-22T	44-32-22T	48-36-26T	44-32-22T	
Group	-	S	U	S	S	U	N	
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm	4arm	4arm	
PCD (mm)	104/64mm	104/64mm	104/64mm	104/64mm	104/64mm	104/64mm	104/64	
Crank Arm Length	160mm	-	-	-	-	-	-	
	165mm	X	X	X	-	-	-	
	167.5mm	-	-	-	-	-	-	
	170mm	X	X	X	X	X	X	
	172.5mm	-	-	-	-	-	-	
	175mm	X	X	X	X	X	X	
	177.5mm	-	-	-	-	-	-	
	180mm	X	X	X	-	-	-	
Chain	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	
Bottom Bracket	Included	Included	Included	included	included	included	BB-ES51-(K)	
Axle Length	Chain Line 47.5	-	-	-	-	-	ES51(121)-(E)	
	Chain Line 50	X	X	X	X	X	ES51(126)-(E)	
	Chain Line 52.5	-	-	-	-	-	-	
	Chain Line 47.5+t	-	-	-	-	-	ES51(-K)121	
Fixing Nut Available	-	-	-	-	-	-	-	
Optional Chain Guard	-	X	X	-	X	X	X	
Hollowtech Crank Arm	X 	X 	X 	X 	X 	X 	X 	
Splined Crank (OCTALINK)	X	X	X	X	X	X	X	
One-key Release	-	-	-	-	-	-	-	
Chain Case Compatible Crank Arm	-	-	X	-	-	X	X	
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Forged Aluminum	Forged Aluminum	Forged Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Spider Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Painted	Painted	Painted	Painted
Spider Arm Cover	Material	-	-	-	-	-	-	-
	Finish	-	-	-	-	-	-	-
Outer Ring	Material	7075 Aluminum	7075 Aluminum	7075 Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle Ring	Material	-	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Plated	Plated	Plated	Plated	Plated	Plated
Inner Ring	Material	-	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	-	Plated	Plated	Plated	Plated	Plated	Plated
Note	Single for 68/73mm BB shell width	for 68/73mm BB shell width	for 68/73mm BB shell width	Triple for 68/73mm BB shell width	for 68/73mm BB shell width	for 68/73mm BB shell width	New Hollowtech crankarm Silver/Black version	


Front Chainwheel (ATB / NEXAVE) Specifications

Series	Deore LX	Deore LX	Non-Series	Non-Series	Deore	Deore	
Model No.	FC-M572	FC-M572-G	FC-M540-L	FC-M540-LK	FC-M540-L	FC-M540-LK	
Rear Speeds	9	9	9	9	9	9	
Chainring Combination	44-32-22T	44-32-22T	44-32-22T	44-32-22T	44-32-22T	44-32-22T	
Group	N	N	N	N	N	N	
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm	4arm	
PCD (mm)	104/64	104/64	104/64	104/64	104/64	104/64	
Crank Arm Length	160mm	-	-	-	-	-	
	165mm	-	-	-	-	-	
	167.5mm	-	-	-	-	-	
	170mm	X	X	X	X	X	
	172.5mm	-	-	-	-	-	
	175mm	X	X	X	X	X	
	177.5mm	-	-	-	-	-	
	180mm	-	-	-	-	-	
Chain	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	
Bottom Bracket	BB-ES51-(K)	BB-ES51-(K)	BB-ES51/30(-E)	BB-ES51/30(-E/K)	BB-ES51/30(-E)	BB-ES51/30(-E/K)	
Axle Length	Chain Line 47.5	ES51(121)(-E)	ES51(121)(-E)	113(E)	121(E)	113(E)	121(E)
	Chain Line 50	ES51(126)(-E)	ES51(126)(-E)	118(E)	126(E)	118(E)	126(E)
	Chain Line 52.5	-	-	-	-	-	-
	Chain Line 47.5+t	ES51-(K)121	ES51-(K)121	-	K121	-	K121
Fixing Nut Available	-	-	-	-	-	-	
Optional Chain Guard	X	X	X	X	X	X	
Hollowtech Crank Arm	X 	X 	X 	X 	X 	X 	
Splined Crank (OCTALINK)	X	X	X	X	X	X	
One-key Release	-	-	-	-	-	-	
Chain Case Compatible Crank Arm	X	X	-	X	-	X	
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized(Black)	Painted(Black)	Painted(Black)	Painted(Black)	Painted(Black)
Spider Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted	Painted(Black)	Painted(Black)	Painted(Black)	Painted(Black)	Painted(Black)
Spider Arm Cover	Material	-	-	-	-	-	
	Finish	-	-	-	-	-	
Outer Ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Anodized (Gold)	Anodized(Black)	Anodized(Black)	Anodized(Black)	Anodized(Black)
Middle Ring	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Plated	Plated	Plated(Silver)	Plated(Silver)	Plated(Silver)	Plated(Silver)
Inner Ring	Material	Steel	Steel	Steel	Steel	Steel	
	Finish	Pearl Bright	Painted(Black)	Plated(Silver)	Plated(Silver)	Plated(Silver)	Plated(Silver)
Note	New Hollowtech crankarm	New Hollowtech crankarm Gold version	Black Version Aluminum 44T/32T chainring. Octalink	Black Version For chain case. Aluminum 44T/32T chainring. Octalink	Black Version Aluminum 44T chainring. Octalink	Black Version. For chaincase. Aluminum 44T chainring. Octalink	

Front Chainwheel (ATB / NEXAVE) Specifications

Series	Non-Series	Deore	Deore	Non-Series	Non-Series
Model No.	FC-M540-SK	FC-M510-LO	FC-M510-SO	FC-M470-LK	FC-M470-SK
Rear Speeds	9	9	9	9	9
Chainring Combination	48-36-26T	44-32-22T	44-32-22T	44-32-22T	48-36-26T
Group	T	N	N	N	T
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160mm	-	-	-	-
	165mm	-	-	-	-
	167.5mm	-	-	-	-
	170mm	X	X	X	X
	172.5mm	-	-	-	-
	175mm	X	X	X	X
	177.5mm	-	-	-	-
	180mm	-	-	-	-
Chain	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG
Bottom Bracket	BB-ES51/30(-E/K)	BB-ES51/30(-E)	BB-ES51/30(-E)	BB-ES51/30(-E/K)	BB-ES51/30(-E/K)
Axle Length	Chain Line 47.5	121(E)	113(E)	113(E)	121(E)
	Chain Line 50	126(E)	118(E)	118(E)	126(E)
	Chain Line 52.5	-	-	-	-
	Chain Line 47.5+t	K121	-	-	K121
Fixing Nut Available	-	-	-	-	-
Optional Chain Guard	X	X	X	X	X
Hollowtech Crank Arm	X 	X 	X 	X 	X 
Splined Crank (OCTALINK)	X	X	X	X	X
One-key Release	-	-	-	-	-
Chain Case Compatible Crank Arm	X	-	-	X	X
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted(Silver)	Painted	Painted	Painted(Black)
Spider Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted(Silver)	Painted	Painted	Painted(Black)
Spider Arm Cover	Material	-	-	-	-
	Finish	-	-	-	-
Outer Ring	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized(Black)	Anodized	Anodized	Anodized(Black)
Middle Ring	Material	Steel	Steel	Steel	Steel
	Finish	Plated(Silver)	Pearl Bright	Pearl Bright	Pearl Bright
Inner Ring	Material	Steel	Steel	Steel	Steel
	Finish	Plated(Silver)	Pearl Bright	Pearl Bright	Pearl Bright
Note	Silver Version. For chain case. Aluminum 48T chainring. Octalink	Black Version Splined Crank Arm	Silver Version Splined Crank Arm	Black Version. For chaincase. Aluminum 44T chainring. Octalink	Silver Version. For chaincase. Aluminum 48T chainring. Octalink

Front Chainwheel (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	FC-M460-LK	FC-M440-L	FC-M440-L	FC-M440-S	FC-M440-S
Rear Speeds	9	9	9	9	9
Chainring Combination	44-32-22T	44-32-22T	44-32-22T	44-32-22T	44-32-22T
Group	N	N	N	N	N
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	104/64	104/64	104/64	104/64	104/64
Crank Arm Length	160mm	-	-	-	-
	165mm	-	-	-	-
	167.5mm	-	-	-	-
	170mm	X	X	X	X
	172.5mm	-	-	-	-
	175mm	X	X	X	X
	177.5mm	-	-	-	-
	180mm	-	-	-	-
Chain	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG
Bottom Bracket	BB-UN25(-K)	BB-ES30(-E)	BB-ES30(-E)	BB-ES30(-E)	BB-ES30(-E)
Axle Length	Chain Line 47.5	117.5	113(E)	113(E)	113(E)
	Chain Line 50	-	118(E)	118(E)	118(E)
	Chain Line 52.5	-	-	-	-
	Chain Line 47.5+t	K117.5	-	-	-
Fixing Nut Available	-	-	-	-	-
Optional Chain Guard	X	X	X	X	X
Hollowtech Crank Arm	X 	-	-	-	-
Splined Crank (OCTALINK)	-	X	X	X	X
One-key Release	-	-	-	-	-
Chain Case Compatible Crank Arm	X	-	-	-	-
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted(Black)	Painted(Black)	Painted(Black)	Painted(Silver)
Spider Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted(Black)	Painted(Black)	Painted(Black)	Painted(Silver)
Spider Arm Cover	Material	-	-	-	-
	Finish	-	-	-	-
Outer Ring	Material	Aluminum	Aluminum	Steel	Aluminum
	Finish	Anodized(Black)	Anodized	Painted(Black)	Anodized
Middle Ring	Material	Steel	Steel	Steel	Steel
	Finish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright
Inner Ring	Material	Steel	Steel	Steel	Steel
	Finish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright
Note	Black Version. For chaincase. Aluminum 44T chainring.	Black Version Aluminum 44T chainring Octalink	Black Version Steel chainrings Octalink	Silver Version Aluminum 44T chainring Octalink	Silver Version Steel chainrings Octalink

Front Chainwheel (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	NEXAVE	
Model No.	FC-M440-L	FC-M440-L	FC-M440-S	FC-M440-S	FC-C810	
Rear Speeds	9	9	9	9	LG 8spd	
Chainring Combination	44-32-22T	44-32-22T	44-32-22T	48-36-26T	46-34-24T SPCM	
Group	N	N	N	T	G	
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm	
PCD (mm)	104/64	104/64	104/64	104/64	100/64	
Crank Arm Length	160mm	-	-	-	-	
	165mm	-	-	-	-	
	167.5mm	-	-	-	-	
	170mm	X	X	X	X	
	172.5mm	-	-	-	-	
	175mm	X	X	X	X	
	177.5mm	-	-	-	-	
	180mm	-	-	-	-	
Chain	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	
Bottom Bracket	BB-UN25(-E)	BB-UN25(-E)	BB-UN25(-E)	BB-UN25(-K)	BB-UN25	
Axle Length	Chain Line 47.5	MM110(E)	MM110(E)	117.5	-	
	Chain Line 50	LL113(E)	LL113(E)	-	130	
	Chain Line 52.5	-	-	-	-	
	Chain Line 47.5+t	-	-	K117.5	-	
Fixing Nut Available	-	-	-	-	-	
Optional Chain Guard	X	X	X	X	Black ^{*1}	
Hollowtech Crank Arm	-	-	-	-	-	
Splined Crank (OCTALINK)	-	-	-	-	-	
One-key Release	-	-	-	-	-	
Chain Case Compatible Crank Arm	-	-	-	X	X	
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Painted(Black)	Painted(Black)	Painted(Silver)	Painted(Silver)	Silver Painted
Spider Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	-
	Finish	Painted(Black)	Painted(Black)	Painted(Silver)	Painted(Silver)	-
Spider Arm Cover	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Outer Ring	Material	Aluminum	Steel	Steel	Steel	Aluminum
	Finish	Anodized	Painted(Black)	Painted(Black)	Painted(Black)	Anodized
Middle Ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Silver Painted
Inner Ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Silver Painted
Note	Black Version Aluminum 44T chainring	Black Version Steel chainrings	Silver Version Steel chainrings	Silver Version. For chancase. Aluminum 48T chainring	Di2 *1 Small Chain Guard is available (Black/Silver)	

Front Chainwheel (ATB / NEXAVE) Specifications

Series	NEXAVE	NEXAVE	NEXAVE	NEXAVE	NEXAVE
Model No.	FC-C600	FC-C530	FC-C530	FC-C530	FC-C510
Rear Speeds	9	LG 8spd	LG 8spd	LG 8spd	LG 8spd
Chainring Combination	46-34T SPCM	33T (Single)	38T (Single)	38T (Single)	46-34-24T
Group	-	-	-	-	G
Spider or Gear Arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	112	-	-	-	100/64
Crank Arm Length	160mm	-	-	-	-
	165mm	-	-	-	-
	167.5mm	-	-	-	-
	170mm	X	X	X	X
	172.5mm	-	-	-	-
	175mm	X	-	-	X
	177.5mm	-	-	-	-
	180mm	-	-	-	-
Chain	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG	Super Narrow HG
Bottom Bracket	BB-UN25-K	BB-TS30/UN25-K	BB-TS30/UN25	BB-TS30/UN25-K	BB-UN25
Axle Length	Chain Line 47.5	-	YL117 for C.L. 44+ t	YL117 for C.L. 44	YL117 for C.L. 44+ t
	Chain Line 50	-	117.5 for C.L. 46+t	117.5 for C.L. 46	117.5 for C.L. 46+t
	Chain Line 52.5	117.5	D-NL for C.L. 47+t	D-NL for C.L. 47	D-NL for C.L. 47+t
	Chain Line 47.5+t	-	D-EL for C.L. 49.5+t	D-EL for C.L. 49.5	D-EL for C.L. 49.5+t
Fixing Nut Available	-	-	-	-	-
Optional Chain Guard	X	Double CG * ¹	Double CG * ¹ (Silver)	Double CG * ¹	Black * ²
Hollowtech Crank Arm	-	-	-	-	-
Splined Crank (OCTALINK)	-	-	-	-	-
One-key Release	-	-	-	-	-
Chain Case Compatible Crank Arm	X	X	-	X	X
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Anodized	Anodized	Silver Painted
Spider Arm	Material	-	-	-	-
	Finish	-	-	-	-
Spider Arm Cover	Material	-	Cover ring dia. : 95mm	Cover ring dia. : 95mm	Cover ring dia. : 95mm
	Finish	-	(33T/38T)	(33T/38T)	(33T/38T)
Outer Ring	Material	Steel	Steel	Steel	Aluminum
	Finish	Silver Painted	Painted	Painted	Anodized
Middle Ring	Material	-	-	-	Steel
	Finish	-	-	-	Silver Painted
Inner Ring	Material	Steel	-	-	Steel
	Finish	Silver Painted	-	-	Silver Painted
Note		* ¹ Small double CG for Chaincase compatible	* ¹ Large outer CG & small inner CG (Not compatible Chaincase)	* ¹ Small double CG for Chaincase compatible	* ¹ Special BB for FC-C510 * ² Small ChainGuard is available (Black/Silver)

Front Chainwheel (ATB / NEXAVE) Specifications

Series	NEXAVE	NEXAVE	NEXAVE	NEXAVE	NEXAVE	Non-Series	Non-Series
Model No.	FC-C505	FC-T410	FC-T411	FC-T300-S	FC-T303	FC-MC20-L	FC-MC20-S
Rear Speeds	LG 8spd	8	8	8/7	8/7	8/7	8/7
Chainring Combination	46-34-24T SPCM	42-32-22T	48-38-28T	42-34-24T	48-38-28T	42-32-22T	42-32-22T
Group	G	M	-	-	-	M	M
Spider or Gear Arm	4arm	4-arm	4-arm	4-arm	4-arm	4-arm	4-arm
PCD (mm)	100/64	104/64	Riveted	Riveted	Riveted	104/64	104/64
Crank Arm Length	160mm	-	-	-	-	-	-
	165mm	-	-	-	-	-	-
	167.5mm	-	-	-	-	-	-
	170mm	X	X	X	X	X	X
	172.5mm	-	-	-	-	-	-
	175mm	X	X	X	-	-	X
	177.5mm	-	-	-	-	-	-
180mm	-	-	-	-	-	-	
Chain	Super Narrow HG	IG	HG	HG	HG	IG	IG
Bottom Bracket	BB-UN25	BB-UN25-K	BB-UN25-K	BB-UN25(-E)	BB-UN25(-E)	BB-UN25(-E)	BB-UN25(-E)
Axle Length	Chain Line 47.5	-	-	YL117	YL117	MM110(E)	MM110(E)
	Chain Line 50	130	-	-	ZL122	ZL122	LL113(E)
	Chain Line 52.5	-	-	-	-	-	-
	Chain Line 47.5+t	-	117.5	117.5	-	-	-
Fixing Nut Available	-	-	-	-	-	-	-
Optional Chain Guard	Black ^{*1}	X	X	X	X	X	X
Hollowtech Crank Arm	-	X <small>HOLLOWTECH</small>	X <small>HOLLOWTECH</small>	-	-	-	-
Splined Crank (OCTALINK)	-	-	-	-	-	-	-
One-key Release	-	-	-	-	-	-	-
Chain Case Compatible Crank Arm	X	X	X	X	X	-	-
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Silver Painted	Anodized	Anodized	Anodized	Anodized	Black Painted
Spider Arm	Material	-	Aluminum	-	-	-	Aluminum
	Finish	-	Silver Painted	-	-	-	Black Painted
Spider Arm Cover	Material	-	-	Resin	Resin	Resin	-
	Finish	-	-	Silver Painted	Silver Painted	Silver Painted	-
Outer Ring	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	Silver Painted	Silver Painted	Silver Painted	Black Painted
Middle Ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Silver Painted	Pearl Bright	Silver Painted	Silver Painted	Silver Painted	Pearl Bright
Inner Ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Silver Painted	Pearl Bright	Silver Painted	Silver Painted	Silver Painted	Pearl Bright
Note	^{*1} Small ChainGuard is available (Black/Silver)					Black Version /Shimano logo	Silver Version /Shimano logo

Front Chainwheel (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series
Model No.	FC-MC19-L	FC-MC19-S	FC-M340	FC-MC08-L	FC-MC08-S	FC-TS91	FC-TS52
Rear Speeds	8/7	8/7	8/7	8/7	8/7	9	8/7
Chainring Combination	42-32-22T	42-32-22T	42-32-22T	42-32-22T	42-32-22T	44-32-22T	42-32-22T
Group	M	M	M	M	M	N	M
Spider or Gear Arm	4-arm	4-arm	4-arm	4-arm	4-arm	4arm	4arm
PCD (mm)	Riveted	Riveted	104/64	Riveted	Riveted	104/64	61
Crank Arm Length	160mm	-	-	-	-	-	-
	165mm	-	-	-	-	-	-
	167.5mm	-	-	-	-	-	-
	170mm	X	X	X	X	X	X
	172.5mm	-	-	-	-	-	-
	175mm	X	X	X	-	-	-
	177.5mm	-	-	-	-	-	-
180mm	-	-	-	-	-	-	-
Chain	IG	IG	IG	IG	IG	Super Narrow HG	IG
Bottom Bracket	BB-UN25(-E)	BB-UN25(-E)	BB-UN25(-E)/K	BB-UN25(-E)	BB-UN25(-E)	BB-TS50	BB-TS50
Axle Length	Chain Line 47.5	MM110(E)	MM110(E)	MM110(E)	MM110(E)	117.5	117.5
	Chain Line 50	LL113(E)	LL113(E)	LL113(E)	LL113(E)	-	-
	Chain Line 52.5	-	-	-	-	-	-
	Chain Line 47.5+t	-	-	MM110(K)	-	-	-
Fixing Nut Available	-	-	-	-	-	-	-
Optional Chain Guard	X	X	X	X	X	X	X
Hollowtech Crank Arm	-	-	-	-	-	-	-
Splined Crank (OCTALINK)	-	-	-	-	-	-	-
One-key Release	-	-	-	-	-	-	-
Chain Case Compatible Crank Arm	-	-	X	-	-	X	X
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Black Painted	Silver Painted	Black Painted	Black painted	Polished	Silver or Black painted / Barrel
Spider Arm	Material	-	-	Aluminum	-	-	Aluminum
	Finish	-	-	Black Painted	-	-	Polished
Spider Arm Cover	Material	Resin	Resin	-	Resin	Resin	-
	Finish	Black Painted	Silver Painted	-	Black Painted	Silver Painted	-
Outer Ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Silver Painted	Silver Painted	Black Painted	Black Painted	Silver Painted	Black Painted / Silver or Black
Middle Ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Silver Painted	Silver Painted	Black Painted	Black Painted	Silver Painted	Pearl Bright / Silver or Black
Inner Ring	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Silver Painted	Silver Painted	Black Painted	Black Painted	Silver Painted	Pearl Bright / Silver or Black
Note	Black Version /Shimano logo	Silver Version /Shimano logo	Shimano logo	Black Version /Shimano logo	Silver Version /Shimano logo	Made in Italy	Made in Italy

Front Chainwheel (ATB / NEXAVE) Specifications

Series	Non-Series	Non-Series	C-Series	C-Series	Tourney	Tourney
Model No.	FC-TS38A	FC-TS32	FC-C050	FC-C051	FC-TX70	FC-TX71
Rear Speeds	8/7	8/7	8/7/6	8/7/6	8/7/6	8/7/6
Chainring Combination	48-38-28T	42-34-24T	42-34-24T	48-38-28T	42-34-24T	48-38-28T
Group	-	-	-	-	-	-
Spider or Gear Arm	5arm	4arm	4arm	4arm	4arm	4arm
PCD (mm)	Riveted	Riveted	Riveted	Riveted	Riveted	Riveted
Crank Arm Length	160mm	-	X	X	-	-
	165mm	-	-	-	-	-
	167.5mm	-	-	-	-	-
	170mm	X	X	X	X	X
	172.5mm	-	-	-	-	-
	175mm	-	-	-	-	-
	177.5mm	-	-	-	-	-
	180mm	-	-	-	-	-
Chain	HG/UG	HG/UG	HG / UG	HG / UG	HG / UG	HG / UG
Bottom Bracket	BB-TS30	BB-TS30	BB-UN25	BB-TY30	BB-UN25	BB-UN25
Axle Length	Chain Line 47.5	YL117	YL117	D-NL	D-NL	D-NL
	Chain Line 50	-	-	-	-	-
	Chain Line 52.5	-	-	-	-	-
	Chain Line 47.5+t	-	-	-	-	-
Fixing Nut Available	-	-	X	X	X	X
Optional Chain Guard	X	X	X	X	X	X
Hollowtech Crank Arm	-	-	-	-	-	-
Splined Crank (OCTALINK)	-	-	-	-	-	-
One-key Release	-	-	-	-	-	-
Chain Case Compatible Crank Arm	X	X	X	X	X	X
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Silver or Black Painted/Barrel/Polish	Silver or Black painted / Polish	Polished	Polished	Polished
Spider Arm	Material	-	-	-	-	-
	Finish	-	-	-	-	-
Spider Arm Cover	Material	Resin	Resin	Resin	Resin	Resin
	Finish	-	-	Resin	Resin	Resin
Outer Ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Silver or Black Painted	Silver or Black Painted	Painted	Painted	Painted
Middle Ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Silver or Black Painted	Silver or Black Painted	Painted	Painted	Painted
Inner Ring	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Silver or Black Painted	Silver or Black Painted	Painted	Painted	Painted
Note	Made in Italy	Made in Italy	4arm	4arm	4arm	4arm

Front Chainwheel (ATB / NEXAVE) Specifications

Series		Tourney	Tourney
Model No.		FC-TY40	FC-TY33
Rear Speeds		8/7/6	8/7/6
Chainring Combination		42-34-24T	48-38-28T
Group		-	-
Spider or Gear Arm		4arm	4arm
PCD (mm)		Riveted	Riveted
Crank Arm Length	160mm	X	-
	165mm	-	-
	167.5mm	-	-
	170mm	X	X
	172.5mm	-	-
	175mm	-	-
	177.5mm	-	-
	180mm	-	-
Chain		HG / UG	HG / UG
Bottom Bracket		BB-UN25(-E)	BB-UN25
Axle Length	Chain Line 47.5	YL117	D-NL
	Chain Line 50	ZL122	-
	Chain Line 52.5	-	-
	Chain Line 47.5+t	-	-
Fixing Nut Available		-	X
Optional Chain Guard		X	X
Hollowtech Crank Arm		-	-
Splined Crank (OCTALINK)		-	-
One-key Release		-	-
Chain Case Compatible Crank Arm		-	X
Crank Arm	Material	Aluminum	Aluminum
	Finish	Polished	Polished
Spider Arm	Material	-	-
	Finish	-	-
Spider Arm Cover	Material	Resin	Resin
	Finish	Resin	Resin
Outer Ring	Material	Steel	Steel
	Finish	Silver Painted	Painted
Middle Ring	Material	Steel	Steel
	Finish	Silver Painted	Painted
Inner Ring	Material	Steel	Steel
	Finish	Silver Painted	Painted
Note		4 arm	4 arm

Bottom Bracket (ATB / NEXAVE) Specifications

Model No.			FC-M960	FC-M805-3	FC-M805-2	FC-M805-1	FC-M800-3	FC-M800-2	FC-M800-1	FC-M760
Cartridge Type BB /E-type			-	-	-	-	-	-	-	-
For Chain Case			-	-	-	-	-	-	-	-
Spindle	Hollow pipe		X	X	X	X	X	X	X	X
	Splined Spindle		X	X	X	X	X	X	X	X
<Axle Length>	<BB Shell>		/	/	/	/	/	/	/	/
Hollowtech II	83mm	(BC1.37)	-	X	X	X	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	X	-	-	-	X	X	X	X
MM110	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
LL113	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
113	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
YL117	68mm	(BC1.37)	-	-	-	-	-	-	-	
117.5	68mm	(BC1.37)	-	-	-	-	-	-	-	
118	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
XL118	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
121	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
126	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-	-
D-NL (122.5mm)	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-	-
D-EL (127.5mm)	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-	-
YL116	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
ZL121	73mm	(BC1.37)	-	-	-	-	-	-	-	
ZL122	73mm	(BC1.37)	-	-	-	-	-	-	-	
123	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
123SP	68mm	(BC1.37)	-	-	-	-	-	-	-	
130	68mm	(BC1.37)	-	-	-	-	-	-	-	-
Note			E-type compatible	E-type compatible	E-type compatible	E-type compatible	E-type compatible	E-type compatible	E-type compatible	E-type compatible

Bottom Bracket (ATB / NEXAVE) Specifications

Model No.			FC-M761	FC-M600-3	FC-M580	FC-M581	BB-ES71	BB-ES71-E	BB-ES51	BB-ES51-E	BB-ES51-K
Cartridge Type BB /E-type			-	-	-	-	-	X	-	X	-
For Chain Case			X	-	-	X	-	-	-	-	X
Spindle	Hollow pipe		X	X	X	X	X (22.2mm)	X (22.2mm)	X (22.2mm)	X (22.2mm)	X (22.2mm)
	Splined Spindle		X	X	X	X	X	X	X	X	X
<Axle Length>			<BB Shell>								
Hollowtech II	83mm	(BC1.37)	-	-	-	-	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	X	X	X	X	-	-	-	-	-
MM110	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-	-
LL113	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-	-
113	68mm	(BC1.37)	-	-	-	-	X	X	X	X	-
	70mm	(M36)	-	-	-	-	X	-	X	-	-
	73mm	(BC1.37)	-	-	-	-	X	-	X	-	-
YL117	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
117.5	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
118	68mm	(BC1.37)	-	-	-	-	X	-	X	-	-
	70mm	(M36)	-	-	-	-	X	-	X	-	-
	73mm	(BC1.37)	-	-	-	-	X	X	X	X	-
XL118	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-	-
121	68mm	(BC1.37)	-	-	-	-	-	-	X	X	X
	70mm	(M36)	-	-	-	-	-	-	X	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	X	-	-
126	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	X	X	-
	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
D-NL (122.5mm)	70mm	(M36)	-	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
D-EL (127.5mm)	70mm	(M36)	-	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
YL116	70mm	(M36)	-	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-	-
ZL121	73mm	(BC1.37)	-	-	-	-	-	-	-	-	-
ZL122	73mm	(BC1.37)	-	-	-	-	-	-	-	-	-
123	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-	-
123SP	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
130	68mm	(BC1.37)	-	-	-	-	-	-	-	-	-
Note			E-type compatible	E-type compatible	E-type compatible	E-type compatible					

Bottom Bracket (ATB / NEXAVE) Specifications

Model No.			BB-ES30	BB-ES30-E	BB-ES30-K	BB-UN73	BB-UN53	BB-UN53-E	BB-UN53-K
Cartridge Type BB /E-type			-	X	-	-	-	X	-
For Chain Case			-	-	X	-	-	-	X
Spindle	Hollow pipe		X (22.2mm)	X (22.2mm)	X (22.2mm)	X	-	-	-
	Splined Spindle		X	X	X	-	-	-	-
<Axle Length>	<BB Shell>		/						
Hollowtech II	83mm	(BC1.37)	-	-	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-
MM110	68mm	(BC1.37)	-	-	-	X	X	-	-
	70mm	(M36)	-	-	-	-	X	-	-
	73mm	(BC1.37)	-	-	-	X	X	-	-
LL113	68mm	(BC1.37)	-	-	-	X	X	X	-
	70mm	(M36)	-	-	-	-	X	-	-
	73mm	(BC1.37)	-	-	-	X	X	-	-
113	68mm	(BC1.37)	X	X	-	-	-	-	-
	70mm	(M36)	X	-	-	-	-	-	-
	73mm	(BC1.37)	X	-	-	-	-	-	-
YL117	68mm	(BC1.37)	-	-	-	-	-	-	
117.5	68mm	(BC1.37)	-	-	-	-	-	-	
118	68mm	(BC1.37)	X	-	-	-	-	-	-
	70mm	(M36)	X	-	-	-	-	-	-
	73mm	(BC1.37)	X	X	-	-	-	-	X
XL118	68mm	(BC1.37)	-	-	-	-	X	-	-
	70mm	(M36)	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	X	-	-
121	68mm	(BC1.37)	X	X	X	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-
	73mm	(BC1.37)	X	-	-	-	-	-	-
126	68mm	(BC1.37)	X	-	-	-	-	-	-
	73mm	(BC1.37)	X	X	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	X	X	-	-
D-NL (122.5mm)	70mm	(M36)	-	-	-	-	X	-	-
	73mm	(BC1.37)	-	-	-	-	X	-	-
	68mm	(BC1.37)	-	-	-	-	X	-	-
D-EL (127.5mm)	70mm	(M36)	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-
YL116	68mm	(BC1.37)	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-
ZL121	73mm	(BC1.37)	-	-	-	-	-	-	
ZL122	73mm	(BC1.37)	-	-	-	-	-	-	
123	68mm	(BC1.37)	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-
123SP	68mm	(BC1.37)	-	-	-	-	-	-	
130	68mm	(BC1.37)	-	-	-	-	-	-	
Note									

Bottom Bracket (ATB / NEXAVE) Specifications

Model No.			BB-UN25	BB-UN25-E	BB-UN25-K	BB-UN25-EK	BB-TS30	BB-TS30-E	BB-TS30-K	BB-TS30-EK
Cartridge Type BB /E-type			-	X	-	X	-	X	-	X
For Chain Case			-	-	X	X	-	-	X	X
Spindle	Hollow pipe		-	-	-	-	-	-	-	-
	Splined Spindle		-	-	-	-	-	-	-	-
<Axle Length>	<BB Shell>		/							
Hollowtech II	83mm	(BC1.37)	-	-	-	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
MM110	68mm	(BC1.37)	X	X	X	-	X	X	X	-
	70mm	(M36)	X	-	-	-	-	-	-	-
	73mm	(BC1.37)	X	-	-	-	X	-	-	-
LL113	68mm	(BC1.37)	X	-	-	-	X	-	-	-
	70mm	(M36)	X	-	-	-	-	-	-	-
	73mm	(BC1.37)	X	X	-	-	X	-	-	-
113	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
YL117	68mm	(BC1.37)	X* (CL:47.5) X (CL:45)	X* (CL:47.5)	X* (CL:47.5)	X* (CL:47.5)	X, X*	X*	X*	X*
117.5	68mm	(BC1.37)	-	-	X	-	X	X	X	X
118	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
XL118	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
121	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
126	68mm	(BC1.37)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
	68mm	(BC1.37)	X*	-	X*	-	X*	-	X*	-
D-NL (122.5mm)	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	X*	-	-	-	-	-	-	-
	68mm	(BC1.37)	X*	-	X	-	X*	-	X	-
D-EL (127.5mm)	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
	68mm	(BC1.37)	-	-	-	-	-	-	-	-
YL116	70mm	(M36)	-	-	-	-	-	-	-	-
	73mm	(BC1.37)	-	-	-	-	-	-	-	-
ZL121	73mm	(BC1.37)	-	-	-	-	-	-	-	-
ZL122	73mm	(BC1.37)	X*	X*	-	-	-	-	-	-
123	68mm	(BC1.37)	X	-	X	-	-	-	-	-
	73mm	(BC1.37)	X	-	-	-	-	-	-	-
123SP	68mm	(BC1.37)	X	-	-	-	-	-	-	-
130	68mm	(BC1.37)	X	-	-	-	-	-	-	-
Note			X* : w/FixingBolts				X* : w/FixingBolts			

Bottom Bracket (ATB / NEXAVE) Specifications

Model No.			BB-TS50	BB-TS50-E	BB-TS50-K	BB-TS50-EK
Cartridge Type BB /E-type			-	X	-	X
For Chain Case			-	-	X	X
Spindle	Hollow pipe		-	-	-	-
	Splined Spindle		-	-	-	-
<Axle Length>	<BB Shell>		/	/	/	/
Hollowtech II	83mm	(BC1.37)	-	-	-	-
	68mm	(BC1.37)	-	-	-	-
	73mm	(BC1.37)	-	-	-	-
MM110	68mm	(BC1.37)	X	X	X	-
	70mm	(M36)	-	-	-	-
	73mm	(BC1.37)	X	-	-	-
LL113	68mm	(BC1.37)	X	-	-	-
	70mm	(M36)	-	-	-	-
	73mm	(BC1.37)	X	-	-	-
113	68mm	(BC1.37)	-	-	-	-
	70mm	(M36)	-	-	-	-
	73mm	(BC1.37)	-	-	-	-
YL117	68mm	(BC1.37)	X, X*	X*	X*	X*
			X	X	X	X
117.5	68mm	(BC1.37)	X	X	X	X
118	68mm	(BC1.37)	-	-	-	-
	70mm	(M36)	-	-	-	-
	73mm	(BC1.37)	-	-	-	-
XL118	68mm	(BC1.37)	-	-	-	-
	70mm	(M36)	-	-	-	-
	73mm	(BC1.37)	-	-	-	-
121	68mm	(BC1.37)	-	-	-	-
	70mm	(M36)	-	-	-	-
	73mm	(BC1.37)	-	-	-	-
126	68mm	(BC1.37)	-	-	-	-
	73mm	(BC1.37)	-	-	-	-
D-NL (122.5mm)	68mm	(BC1.37)	X*	-	X*	-
	70mm	(M36)	-	-	-	-
	73mm	(BC1.37)	-	-	-	-
D-EL (127.5mm)	68mm	(BC1.37)	X*	-	-	-
	70mm	(M36)	-	-	-	-
	73mm	(BC1.37)	-	-	-	-
YL116	68mm	(BC1.37)	-	-	-	-
	70mm	(M36)	-	-	-	-
ZL121	73mm	(BC1.37)	-	-	-	-
ZL122	73mm	(BC1.37)	-	-	-	-
123	68mm	(BC1.37)	-	-	-	-
	73mm	(BC1.37)	-	-	-	-
123SP	68mm	(BC1.37)	-	-	-	-
130	68mm	(BC1.37)	-	-	-	-
Note			X* : w/FixingBolts			

Freehub (ATB / NEXAVE) Specifications(Standard /Disc Brake /Roller Brake)

Series		XTR	Deore XT	Deore XT	Deore LX
Model No.		FH-M960	FH-M760-L	FH-M760-S	FH-M580
Spoke Holes	24H	X	-	-	-
	28H	X	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
	40/48H	-	-	40H	-
	Hole PCD (mm)	45	45	45	45
Freehub Body	Speeds	8/9	8/9	8/9	8/9
	11T compatible	X	X	X	X
	Roller Clutch	-	-	-	-
	Material	Titanium	Steel	Steel	Steel
O.L.D. (mm)	130	-	-	-	-
	135	X	X	X	X
	Others	-	-	-	-
Flange Distance		58.4	59.3	59.3	59.2
Dish		6.15	7.9	7.9	7.6
Axle(QR)	QR Skewer Length	168/173mm	168/173mm	168/173mm	168/173mm
	Length	146mm (M10)	146mm (M10)	146mm (M10)	146mm(M10)
	Material	Titanium	Steel	Steel	Steel
Axle(Nut)	Length	-	-	-	-
	Material	-	-	-	-
Seal	Hub	X	X	X	X
	Freewheel	X	X	X	X
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Quick Release Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
CBN (Cubic Boron Nitride)	Cone Races	X	X	X	X
	Cup Races	X	-	-	-
Stainless Steel Ball Bearings		X	-	-	-
Thread for Drum Brake (BC1.37X24)		-	-	-	-
Note			Black Version	Silver Version	

Freehub (ATB / NEXAVE) Specifications(Standard /Disc Brake /Roller Brake)

Series		Deore LX	Deore LX	Deore	Deore	NEXAVE
Model No.		FH-M570-G	FH-M570	FH-M510-L	FH-M510-S	FH-C500
Spoke Holes	24H	-	-	-	-	-
	28H	-	-	-	-	-
	32H	X	X	X	X	X
	36H	X	X	X	X	X
	40/48H	-	-	-	-	-
	Hole PCD (mm)	45	45	45	45	45
Freehub Body	Speeds	8/9	8/9	8/9	8/9	8/9
	11T compatible	X	X	X	X	X
	Roller Clutch	-	-	-	-	-
	Material	Steel	Steel	Steel	Steel	Steel
O.L.D. (mm)	130	-	-	-	-	-
	135	X	X	X	X	X
	Others	-	-	-	-	-
Flange Distance		60.6	60.6	60.6	60.6	59.2
Dish		7.6	7.6	7.6	7.6	7.9
Axle(QR)	QR Skewer Length	168mm	168mm	168/173mm	168/173mm	168mm
	Length	146mm (M10)	146mm (M10)	146mm (M10)	146mm (M10)	146mm (M10)
	Material	Steel	Steel	Steel	Steel	Steel
Axle(Nut)	Length	-	-	-	-	-
	Material	-	-	-	-	-
Seal	Hub	X	X	X	X	X
	Freewheel	X	X	X	X	X
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized(Gold)	Anodized	Anodized	Anodized	Anodized
Quick Release Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
CBN (Cubic Boron Nitride)	Cone Races	X	X	X	X	X
	Cup Races	-	-	-	-	-
Stainless Steel Ball Bearings		-	-	-	-	-
Thread for Drum Brake (BC1.37X24)		-	-	-	-	-
Note		Gold Version		Black Version	Silver Version	

Freehub (ATB / NEXAVE) Specifications(Standard /Disc Brake /Roller Brake)

Series		NEXAVE	Alivio	Non-Series	Non-Series	Non-Series
Model No.		FH-T300	FH-MC18	FH-RM60-8-QR	FH-RM30-8-QR	FH-RM30-8-NT
Spoke Holes	24H	-	-	-	-	-
	28H	-	-	-	-	-
	32H	X	X	X	X	X
	36H	X	X	X	X	X
	40/48H	-	-	-	-	-
	Hole PCD (mm)	45	45	45	45	45
Freehub Body	Speeds	7	8/9	8/9	8/9	8/9
	11T compatible	X	X	X	X	X
	Roller Clutch	X	-	-	-	-
	Material	Steel	Steel	Steel	Steel	Steel
O.L.D. (mm)	130	X	-	-	-	-
	135	X	X	X	X	X
	Others	-	-	-	-	-
Flange Distance		60.6	60.6	59.2	59.2	59.2
Dish		141:7.8 146:5.3	7.6	7.3	7.7	7.7
Axle(QR)	QR Skewer Length	163/168mm	168mm	166mm	166mm	-
	Length	141/146mm (M10)	146mm (M10)	146mm(M10)	146mm(M10)	-
	Material	Steel	Steel	Steel	Steel	Steel
Axle(Nut)	Length	-	-	-	-	185mm(M10)
	Material	-	-	-	-	Steel
Seal	Hub	X	X	X	-	-
	Freewheel	X	X	X	-	-
Hub Shell	Material	Aluminum	Aluminum	Aluminum/1pcs	Aluminum/2pcs	Aluminum/2pcs
	Finish	Machined	Machined	Machined	Shiny	Shiny
Quick Release Lever	Material	Aluminum	Aluminum	Steel	Steel	Steel
	Finish	Barrel	Barrel	Chrome Plated	Chrome Plated	Chrome Plated
CBN (Cubic Boron Nitride)	Cone Races	-	-	-	-	-
	Cup Races	-	-	-	-	-
Stainless Steel Ball Bearings		-	-	-	-	-
Thread for Drum Brake (BC1.37X24)		-	-	-	-	-
Note			Black color available	Black Hub Shell Available	Black Hub Shell Available	Black Hub Shell Available

Freehub (ATB / NEXAVE) Specifications(Standard /Disc Brake /Roller Brake)

Series		Non-Series	Non-Series	C-Series	Non-Series	Altus
Model No.		FH-RM30-7-QR	FH-RM30-7-NT	FH-C201	FH-RM40-8	FH-CT91
Spoke Holes	24H	-	-	-	-	-
	28H	-	-	-	-	-
	32H	-	-	X	X	X
	36H	X	X	X	X	X
	40/48H	-	-	-	-	-
	Hole PCD (mm)	45	45	45	45	45
Freehub Body	Speeds	7	7	8/9	8/9	7
	11T compatible	X	X	X	X	X
	Roller Clutch	-	-	-	-	-
	Material	Steel	Steel	Steel	Steel	Steel
O.L.D. (mm)	130	-	-	-	-	X
	135	X	X	X	X	X
	Others	-	-	-	-	-
Flange Distance		59.2	59.2	60.6	60.6	60.6
Dish		135mm:5.5mm	135mm:5.5mm	7.7	7.7	130mm: 7.8mm 135mm: 5.3mm
Axle(QR)	QR Skewer Length	166mm	-	166mm	166mm	161/166mm
	Length	146mm(M10)	-	146mm (M10)	146mm (M10)	141/146mm (M10)
	Material	Steel	Steel	Steel	Steel	Steel
Axle(Nut)	Length	-	185mm(M10)	-	185mm (M10)	-
	Material	-	Steel	-	Steel	-
Seal	Hub	-	-	X	-	X
	Freewheel	-	-	-	-	-
Hub Shell	Material	Aluminum/2pcs	Aluminum/2pcs	Aluminum	Aluminum	Aluminum
	Finish	Shiny	Shiny	Anodized	Machined	Machined
Quick Release Lever	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
CBN (Cubic Boron Nitride)	Cone Races	-	-	-	-	-
	Cup Races	-	-	-	-	-
Stainless Steel Ball Bearings		-	-	-	-	-
Thread for Drum Brake (BC1.37X24)		-	-	-	-	-
Note						

Freehub (ATB / NEXAVE) Specifications(Standard /Disc Brake /Roller Brake)

Series		Non-Series	Non-Series	Non-Series
Model No.		FH-RM40	HB-TS30-R	FH-HF08
Spoke Holes	24H	-	-	-
	28H	-	-	-
	32H	-	-	-
	36H	X	X	-
	40/48H	-	-	X
	Hole PCD (mm)	45	45	62.5
Freehub Body	Speeds	7	7 * (NOTE)	8/9
	11T compatible	X	-	O
	Roller Clutch	-	-	-
	Material	Steel	-	Steel
O.L.D. (mm)	130	X	X	-
	135	X	X	-
	Others	-	-	145
Flange Distance		60.6	58.0	54.0
Dish		130mm: 7.8mm 135mm: 5.3mm	130mm: 8mm 135mm: 7.5mm	2.5
Axle(QR)	QR Skewer Length	161/166mm	161/166mm	178/mm
	Length	141/146mm (M10)	141/146mm (M10)	156/mm (M10)
	Material	Steel	Steel	Steel
Axle(Nut)	Length	180/185mm (M10)	180/185mm (M10)	-
	Material	Steel	Steel	-
Seal	Hub	-	-	X
	Freewheel	-	-	X
Hub Shell	Material	Aluminum	Aluminum	Aluminum
	Finish	Machined	Machined	Anodized
Quick Release Lever	Material	Steel	Steel	Aluminum
	Finish	Chrome Plated	Chrome Plated	Anodized
CBN (Cubic Boron Nitride)	Cone Races	-	-	X
	Cup Races	-	-	-
Stainless Steel Ball Bearings		-	-	-
Thread for Drum Brake (BC1.37X24)		-	-	X
Note			*(NOTE) Rear hub for MF Sticker Silver and Black available	For tandem bicycle

Freehub (ATB / NEXAVE) Specifications(Standard / Disc Brake /Roller Brake)

Series		XTR	SAINT	SAINT	Deore XT	Deore XT
Model No.		FH-M965	FH-M805	FH-M800	FH-M765-L	FH-M765-S
Spoke Holes	24H	-	-	-	-	-
	28H	X	-	-	-	-
	32H	X	X	X	X	X
	36H	X	X	X	X	X
	40/48H	-	-	-	-	-
	Hole PCD (mm)	45	61	61	45	45
Freehub Body	Speeds	8/9	8/9	8/9	8/9	8/9
	11T compatible	X	X	X	X	X
	Material	Titanium	Steel	Steel	Steel	Steel
O.L.D. (mm)	130	-	-	-	-	-
	135	X	-	X	X	X
	Others	-	X	-	-	-
Flange Distance		58.4	72	57.1	58.4	58.4
Dish		6.15	6.7	6.8	6.15	6.15
Axle(QR)	QR Skewer Length	168/173mm	-	-	168/173mm	168/173mm
	Length	146mm (M10)	-	-	146mm (M10)	146mm (M10)
	Material	Titanium	-	-	Steel	Steel
Axle(Nut)	Length	-	211mm(φ 12)	197mm(φ 10)	-	-
	Material	-	Steel	Steel	-	-
Seal	Hub	X	X	X	X	X
	Freewheel	X	X	X	X	X
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Quick Release Lever	Material	Aluminum	-	-	Aluminum	Aluminum
	Finish	Anodized	-	-	Anodized	Anodized
CBN (Cubic Boron Nitride)	Cone Races	X	X	X	X	X
	Cup Races	X	X	X	-	-
Stainless Steel Ball Bearings		X	-	-	-	-
Lock Ring Type Rotor Mount		X	Larger Size	Larger Size	X	X
Note			For 150mm O.L.D.	For 135mm O.L.D.	Black Version	Silver Version

Freehub (ATB / NEXAVE) Specifications(Standard / Disc Brake /Roller Brake)

Series		HONE	Deore LX	Deore	Deore	Non-Series	Non-Series
Model No.		FH-M600	FH-M585	FH-M525-L	FH-M525-S	FH-M495-L	FH-M495-S
Spoke Holes	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
	40/48H	-	-	-	-	-	-
	Hole PCD (mm)	45	45	61	61	45	45
Freehub Body	Speeds	8/9	8/9	8/9	8/9	8/9	8/9
	11T compatible	X	X	X	X	X	X
	Material	Steel	Steel	Steel	Steel	Steel	Steel
O.L.D. (mm)	130	-	-	-	-	-	-
	135	X	X	X	X	X	X
	Others	-	-	-	-	-	-
Flange Distance		57.4	57.4	57.1	57.1	66.5	66.5
Dish		6.65	6.65	6.8	6.8	6.8	6.8
Axle(QR)	QR Skewer Length	-	168/173mm	168/173mm	168/173mm	166mm/170mm	166mm/170mm
	Length	-	146mm (M10)	146mm (M10)	146mm (M10)	146mm (M10)	146mm (M10)
	Material	-	Steel	Steel	Steel	Steel	Steel
Axle(Nut)	Length	186mm	-	-	-	-	-
	Material	Steel	-	-	-	-	-
Seal	Hub	X	X	X	X	X	X
	Freewheel	X	X	X	X	X	X
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Quick Release Lever	Material	-	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	-	Anodized	Anodized	Anodized	Chrome Plated	Chrome Plated
CBN (Cubic Boron Nitride)	Cone Races	X	X	X	X	-	-
	Cup Races	-	-	-	-	-	-
Stainless Steel Ball Bearings		-	-	-	-	-	-
Lock Ring Type Rotor Mount		X	X	-	-	X	X
Note				Black Version	Silver Version	Black Version	Silver Version

Freehub (ATB / NEXAVE) Specifications(Standard / Disc Brake /Roller Brake)

Series		Non-Series	Non-Series	NEXAVE
Model No.		FH-M475-L	FH-M475-S	FH-C501
Spoke Holes	24H	-	-	-
	28H	-	-	-
	32H	X	X	X
	36H	X	X	X
	40/48H	-	-	-
	Hole PCD (mm)	61	61	61
Freehub Body	Speeds	8/9	8/9	8/9
	11T compatible	X	X	X
	Material	Steel	Steel	Steel
O.L.D. (mm)	130	-	-	-
	135	X	X	X
	Others	-	-	-
Flange Distance		57.1	57.1	57.1
Dish		6.8	6.8	6.8
Axle(QR)	QR Skewer Length	166mm/170mm	166mm/170mm	168mm
	Length	146mm (M10)	146mm (M10)	146mm (M10)
	Material	Steel	Steel	Steel
Axle(Nut)	Length	-	-	-
	Material	-	-	-
Seal	Hub	X	X	X
	Freewheel	X	X	X
Hub Shell	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
Quick Release Lever	Material	Steel	Steel	Aluminum
	Finish	Chrome Plated	Chrome Plated	Anodized
CBN (Cubic Boron Nitride)	Cone Races	-	-	X
	Cup Races	-	-	-
Stainless Steel Ball Bearings		-	-	-
Lock Ring Type Rotor Mount		-	-	-
Note		Black Version	Silver Version	

Freehub (ATB / NEXAVE) Specifications(Standard /Disc Brake / Roller Brake)

Series		NEXAVE	NEXAVE	Nexus	Tourney
Model No.		FH-IM70	FH-IM45	FH-IM40	RH-IM10
Spoke Holes	24H	-	-	-	-
	28H	-	-	-	-
	32H	-	-	-	-
	36H	X	X	X	X
	40/48H	-	-	-	-
	Hole PCD (mm)	45	45	45	45
Freehub Body	Speeds	8/9	7	7	-
	11T compatible	X	X	X	-
	Roller Clutch	X	-	-	-
	Material	Steel	Steel	Steel	-
O.L.D. (mm)	130	-	X	X	X
	135	X	-	-	-
	Others	-	-	-	-
Flange Distance		60.0	56.3	56.3	55.1
Dish		6.8	6.5	6.5	58.5
Axle(QR)	QR Skewer Length	-	-	-	-
	Length	-	-	-	-
	Material	Steel	Steel	Steel	Steel
Axle(Nut)	Length	185mm (M10)	180mm (M10)	180mm (M10)	180mm (M10)
	Material	Steel	Steel	Steel	Steel
Seal	Hub	X	X	X	-
	Freewheel	X	X	X	-
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Machined	Machined	Painted
Note					For 6 or 7 speed multifree wheel

FH-Dynamo Specifications

Series		NEXAVE	NEXAVE
Model No.		FH-C810	FH-C811
Type		Roller	Disc
Voltage (110rpm15Ω)		3.5V*	3.5V*
Output power (110rpm15 Ω)		0.9W*	0.9W*
Spoke Holes	28H	-	-
	32H	X	X
	36H	X	X
	Hole PCD (mm)	74.4	74.4
Freehub Body	Speeds	8/9	8/9
	11T compatible	X	X
	Roller Clutch	-	-
	Material	Steel	Steel
O.L.D. (mm)	130	-	-
	135	X	X
	Others	-	-
Flange Distance		55.7	55.7
Dish		6.8	6.8
Axle(QR)	QR Skewer Length	-	168mm
	Length	-	146mm (M10)
	Material	-	Steel
Axle(Nut)	Length	185mm (M10)	-
	Material	Steel	-
Seal	Hub	X	X
	Freewheel	X	X
Hub Shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Quick Release Lever	Material	-	Aluminum
	Finish	-	Anodized
CBN (Cubic Boron Nitride)	Cone Races	X	X
	Cup Races	-	-
Stainless Steel Ball Bearings		-	-
Lock Ring Type Rotor Mount		-	-
EW(Electoric Cable) Type		EW-EF	EW-EG
Note		* Reference data	

Internal Freehub Specifications

Series		NEXAVE	NEXAVE
Model No.		IF-C530	IF-C530-VS
Speed		3	3
Silent Clutch		X	X
Gear Change Support Mechanism		X	X
Super Light Shifting		X	X
Left hand dust cap		-	X
Brake		BR-IM41/ 50/ 70	V-Brake
Over Locknut Dim.	OLD(mm)	136mm	136mm
Axle Length	A(mm)	197	197
	B(mm)	27.6	27.6
	C(mm)	33.5	33.5
Ends Diameter	D	M10	M10
	D'	8.4	8.4
NUT Width	K(mm)	7.2	7.2
Dropout Width Dim.	P(mm)	8	8
	Q(mm)	8	8
Non Turn Washer	L(mm)	6	6
	M(mm)	6	6
Gear Ratio	Total	186%	186%
	1	0.73	0.73
	2	1	1
	3	1.36	1.36
Hub Shell Material		Aluminum	Aluminum
Finish(Corrosion Resistant)		X	X
weight		983g	983g
Spoke Hole		36H	36H
Spoke Size		#14	#14
Flange Dist.	F(mm)	58.5	58.5
Spoke Hole P.C.D	G(mm)	71.5	71.5
Flange Diameter	H(mm)	84.1	84.1
Flange width	J(mm)	3.2	3.2
	J'(mm)	3.5	3.5
	E(mm)	7.46	7.46
Sprocket		8	8
Belcrank	Model No.	SM-BC05 (Belcrank5)	SM-BC05 (Belcrank5)
	Shifting Lever	ST-C530(L)	ST-C530(L)
Note		Only LG gear compatible	Only LG gear compatible

Front Hub (ATB / NEXAVE) Specifications (Standard /Disc Brake /Roller Brake)

Series		XTR	Deore XT	Deore XT	Deore LX	Deore LX	Deore LX
Model No.		HB-M960	HB-M760-L	HB-M760-S	HB-M580	HB-M571	HB-M570-G
Spoke Holes	24H	X	-	-	-	-	-
	28H	X	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
	40/48H	-	-	-	-	-	-
Hole PCD (mm)		38	38	38	38	38	38
O.L.D. (mm)		100	100	100	100	100	100
Flange Distance		71.6	71.6	71.6	71.6	71.6	71.6
Axle(QR)	QR Skewer Length	133mm	133mm	133mm	133mm	133mm	133mm
	Axle Length	108mm(M10)	108mm (M10)	108mm (M10)	108mm(M10)	108mm (M10)	108mm (M9)
	Material	Titanium	Steel	Steel	Steel	Steel	Steel
Axle(Nut)	Axle Length	-	-	-	-	-	-
	Material	-	-	-	-	-	-
Seal		X	X	X	X	X	X
Stainless Steel Ball Bearings		X	-	-	-	-	-
Strong Axle		X	X	X	X	X	-
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized (Gold)
CBN (Cubic Boron Nitride)	Cone Races	X	X	X	X	X	X
	Cup Races	X	-	-	X	-	-
Quick Release Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Radial Lacing		X	X	X	X	-	-
Note			Black Version	Silver Version			Gold Version

Front Hub (ATB / NEXAVE) Specifications (Standard /Disc Brake /Roller Brake)

Series		Deore LX	Deore	Deore	NEXAVE	NEXAVE	Alivio	C-Series	Altus
Model No.		HB-M570	HB-M510-L	HB-M510-S	HB-C500	HB-T300	HB-MC12-P	HB-C201	HB-CT91
Spoke Holes	24H	-	-	-	-	-	-	-	-
	28H	-	-	-	-	-	-	-	-
	32H	X	X	X	X	X	X	X	-
	36H	X	X	X	X	X	X	X	X
	40/48H	-	-	-	-	-	-	-	-
	Hole PCD (mm)	38	42	42	42	38	38	38	38
O.L.D. (mm)		100	100	100	100	100	100	100	100
Flange Distance		71.6	71.6	71.6	71.6	71.6	71.6	71.6	71.6
Axle(QR)	QR Skewer Length	133mm	133mm	133mm	133mm	129/133mm	129/133mm	129/133mm	129/133mm
	Axle Length	108mm (M9)	108mm (M9)	108mm (M9)	108mm (M9)	108mm (M9)	108mm (M9)	108mm (M9)	108mm (M9)
	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
Axle(Nut)	Axle Length	-	-	-	-	-	X	-	-
	Material	-	-	-	-	-	140mm (M9)	-	-
Seal		X	X	X	X	X	X	X	X
Stainless Steel Ball Bearings		-	-	-	-	-	-	-	-
Strong Axle		-	-	-	-	-	-	-	-
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Machined	Anodized	Anodized	Machined
CBN (Cubic Boron Nitride)	Cone Races	X	X	X	X	-	-	-	-
	Cup Races	-	-	-	-	-	-	-	-
Quick Release Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Barrel	Barrel	Chrome Plated	Chrome Plated
Radial Lacing		-	-	-	-	-	-	-	-
Note			Black Version	Silver Version			Black color available		

Front Hub (ATB / NEXAVE) Specifications (Standard /Disc Brake /Roller Brake)

Series		Non-Series	Non-Series	Non-Series
Model No.		HB-RM40	HB-TS30-F	HB-HF08
Spoke Holes	24H	-	-	-
	28H	-	-	-
	32H	X	-	-
	36H	X	X	-
	40/48H	-	-	X
	Hole PCD (mm)	38	45	62.5
O.L.D. (mm)		100	100	100
Flange Distance		71.6	64.0	71.6
Axle(QR)	QR Skewer Length	129/133mm	129mm	133mm
	Axle Length	108mm (M9)	108mm (M9)	108mm (M9)
	Material	Steel	Steel	Steel
Axle(Nut)	Axle Length	X	X	-
	Material	140mm (M9)	140mm (M9)	-
Seal		-	-	X
Stainless Steel Ball Bearings		-	-	-
Strong Axle		-	-	-
Hub Shell	Material	Aluminum	Aluminum	Aluminum
	Finish	Machined	Machined	Anodized
CBN (Cubic Boron Nitride)	Cone Races	-	-	-
	Cup Races	-	-	-
Quick Release Lever	Material	Steel	Steel	Aluminum
	Finish	Chrome Plated	Chrome Plated	Anodized
Radial Lacing		-	-	-
Note			Sticker Silver and Black available	

Front Hub (ATB / NEXAVE) Specifications (Standard / Disc Brake /Roller Brake)

Series		XTR	SAINT	Deore XT	Deore XT
Model No.		HB-M965	HB-M800A	HB-M765-L	HB-M765-S
Spoke Holes	24H	X	-	-	-
	28H	X	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
	40/48H	-	-	-	-
	Hole PCD (mm)	44/38	57	44/41	44/41
O.L.D. (mm)		100	110	100	100
Flange Distance		60.6	60.9	60.4	60.4
Offset		5.5	5.5	5.4	5.4
Axle(QR)	QR Skewer Length	133mm	-	133mm	133mm
	Axle Length	108mm (M10)	-	108mm (M10)	108mm (M10)
	Material	Titanium	-	Steel	Steel
Axle(Nut)	Axle Length	-	*2 N/A	-	-
	Material	-		-	-
Seal		X	X	X	X
Strong Axle		X	X	X	X
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
CBN (Cubic Boron Nitride)	Cone Races	X	X	X	X
	Cup Races	X	X	-	-
Quick Release Lever	Material	Aluminum	-	Aluminum	Aluminum
	Finish	Anodized	-	Anodized	Anodized
Lock Ring Type Rotor Mount		X	X (Larger Size)	X	X
Radial Lacing		*1	-	-	-
Note		*1 Right Side only	For 20mm Axle	Black version	Silver version

Front Hub (ATB / NEXAVE) Specifications (Standard / Disc Brake /Roller Brake)

Series		SAINT	HONE	Deore LX	Deore	Deore	Non-Series
Model No.		HB-M765-LR	HB-M600	HB-M585	HB-M525-L	HB-M525-S	HB-M495-L
Spoke Holes	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	X	X	X	X	X	X
	36H	X	X	X	X	X	X
	40/48H	-	-	-	-	-	-
	Hole PCD (mm)	44/41	44	44	61	61	44
O.L.D. (mm)		100	100	100	100	100	100
Flange Distance		60.4	60.2	60.2	59.4	59.4	60.2
Offset		5.4	5.3	5.3	5.5	5.5	5.3
Axle(QR)	QR Skewer Length	133mm	133mm	133mm	133mm	133mm	133mm
	Axle Length	108mm (M10)	108mm (M10)	108mm (M10)	108mm (M9)	108mm (M9)	108mm (M9)
	Material	Steel	Steel	Steel	Steel	Steel	Steel
Axle(Nut)	Axle Length	-	-	-	-	-	-
	Material	-	-	-	-	-	-
Seal		X	X	X	X	X	X
Strong Axle		X	X	X	-	-	-
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
CBN (Cubic Boron Nitride)	Cone Races	X	X	X	X	X	-
	Cup Races	-	-	-	-	-	-
Quick Release Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Chrome Plated
Lock Ring Type Rotor Mount		X	X	X	-	-	X
Radial Lacing		-	-	-	-	-	-
Note		M800 Color version			Black version	Silver version	Black version

Front Hub (ATB / NEXAVE) Specifications (Standard / Disc Brake /Roller Brake)

Series		Non-Series	Deore	Deore	NEXAVE
Model No.		HB-M495-S	HB-M475-L	HB-M475-S	HB-C501
Spoke Holes	24H	-	-	-	-
	28H	-	-	-	-
	32H	X	X	X	X
	36H	X	X	X	X
	40/48H	-	-	-	-
	Hole PCD (mm)	44	61	61	61
O.L.D. (mm)		100	100	100	100
Flange Distance		60.2	59.4	59.4	59.4
Offset		5.3	5.5	5.5	5.5
Axle(QR)	QR Skewer Length	133mm	133mm	133mm	133mm
	Axle Length	108mm (M9)	108mm (M9)	108mm (M9)	108mm (M9)
	Material	Steel	Steel	Steel	Steel
Axle(Nut)	Axle Length	-	-	-	-
	Material	-	-	-	-
Seal		X	X	X	X
Strong Axle		-	-	-	-
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
CBN (Cubic Boron Nitride)	Cone Races	-	-	-	X
	Cup Races	-	-	-	-
Quick Release Lever	Material	Steel	Steel	Steel	Aluminum
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Anodized
Lock Ring Type Rotor Mount		X	-	-	-
Radial Lacing		-	-	-	-
Note		Silver version	Black Version	Silver Version	

Front Hub (ATB/NEXAVE) Specifications (Standard/Disc Brake / Roller Brake)

Series		NEXAVE	NEXAVE	Nexus	C-Series	C-Series	Tourney
Model No.		HB-IM70	HB-IM45	HB-IM40	HB-C052-IM-F	HB-C052C-IM-F	HB-IM20-E
Spoke Holes	24H	-	-	-	-	-	-
	28H	-	-	-	-	-	-
	32H	-	-	-	-	-	-
	36H	X	X	X	X	X	X
	40/48H	-	-	-	-	-	-
	Hole PCD (mm)	70	52	52	70	70	62
O.L.D. (mm)		100	100	100	100	100	100
Flange Distance		56.8	61.5	61.5	56.8	56.8	59
Offset		4.2	4.3	4.3	3.7	3.7	4.6
Axle(QR)	QR Skewer Length	129mm	-	-	-	-	-
	Axle Length	108mm (M9)	-	-	-	-	-
	Material	Steel	-	-	-	-	-
Axle(Nut)	Axle Length	-	140mm (M9)	140mm (M9)	140mm (M9)	140mm (M9)	140mm (M9)
	Material	-	Steel	Steel	Steel	Steel	Steel
Seal		X	X	X	X	X	X
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Clear Painted	Machined	Anodized	Painted	Painted	Painted
Quick Release Lever	Material	Aluminum	-	-	-	-	-
	Finish	Anodized	-	-	-	-	-
Structure		Hyper	Normal	Normal	Hyper	Hyper	Hyper
Modulator Setting		26 inches or more	26 inches or more	26 inches or more	26 inches or more	20-24inches	26 inches or more
Note							

Front Hub (ATB/NEXAVE) Specifications (Standard/Disc Brake / Roller Brake)

Series		Tourney
Model No.		HB-IM20-EC
Spoke Holes	24H	-
	28H	-
	32H	-
	36H	X
	40/48H	-
	Hole PCD (mm)	62
O.L.D. (mm)		100
Flange Distance		59
Offset		4.6
Axle(QR)	QR Skewer Length	-
	Axle Length	-
	Material	-
Axle(Nut)	Axle Length	140mm (M9)
	Material	Steel
Seal		X
Hub Shell	Material	Steel
	Finish	Painted
Quick Release Lever	Material	-
	Finish	-
Structure		Hyper
Modulator Setting		20-24inches
Note		

Cassette Sprocket (ATB / NEXAVE) Specifications

Series name	XTR	XTR	XTR	Deore XT	Deore XT	Deore LX	Deore LX
Model No.	CS-M960	CS-M960	CS-M960	CS-M760	CS-M760	CS-M580	CS-M580
Type	HG Cassette Sprocket	HG Cassette Sprocket	HG Cassette Sprocket	HG Cassette Sprocket	HG Cassette Sprocket	HG Cassette Sprocket	HG Cassette Sprocket
Combination	Speed	9	9	9	9	9	9
	9	32	34	34	32	34	32
	8	28	30	30	28	30	28
	7	24	26	26	24	26	24
	6	21	23	23	21	23	21
	5	18	20	20	18	20	18
	4	16	18	17	16	17	16
	3	14	16	15	14	15	14
	2	12	14	13	12	13	12
1	11	12	11	11	11	11	11
Group	ba	ap	as	aq	as	ar	au
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	Super Narrow HG for 9 speed	Super Narrow HG for 9 speed
Spider Arm	X	X	X	X	X	-	-
Aluminum Lock Ring	X	X	X	-	-	-	-
Steel Cog	11-12-14-16-18T	12-14-16-18-20T	11-13-15-17-20T	11-32T	11-34T	11-32T	11-34T
Ti Cog	21-24-28-32T	23-26-30-34T	23-26-30-34T	-	-	-	-
Finish	Ti / Ni-P Coated	Ti / Ni-P Coated	Ti / Ni-P Coated	Chrome Plated	Chrome Plated	Pearl Bright	Pearl Bright
Note							

Cassette Sprocket (ATB / NEXAVE) Specifications

Series name	Deore LX	NEXAVE	Deore	NEXAVE	NEXAVE	NEXAVE	Alivio	
Model No.	CS-HG70-9	CS-HG70-9	CS-HG50-9	CS-HG50-9	CS-LG50	CS-HG60-8I	CS-HG50-8I	
Type	HG Cassette Sprocket	HG Cassette Sprocket	HG Cassette Sprocket	HG Cassette Sprocket	LG Cassette Sprocket	HG Cassette sprocket	HG Cassette Sprocket	
Combination	Speed	9	9	9	9	8	8	8
	9	32	34	32	34	-	-	-
	8	28	30	28	30	33	34	30
	7	24	26	24	26	29	26	26
	6	21	23	21	23	25	23	23
	5	18	20	18	20	21	20	20
	4	16	17	16	17	17	17	17
	3	14	15	14	15	15	15	15
	2	12	13	12	13	13	13	13
1	11	11	11	11	11	11	11	
Group	ar	au	ar	au	bb	ao	an	
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	IG/HG	IG/HG	
Spider Arm	-	-	-	-	-	-	-	
Aluminum Lock Ring	-	-	-	-	-	-	-	
Steel Cog	11-32T	11-34T	11-32T	11-34T	11-33T	11-34T	11-30T	
Ti Cog	-	-	-	-	-	-	-	
Finish	Pearl Bright	Pearl Bright	Ni-plated	Ni-plated	Ni-plated	Silver	Ni-plated	
Note					With Spoke Protector			

Cassette Sprocket (ATB / NEXAVE) Specifications

Series name	Alivio	C-Series	NEXAVE	Acera	Acera	Acera	C-Series
Model No.	CS-HG50-8I	CS-HG40-8I	CS-HG50-I	CS-HG30-8I	CS-HG30-8I	CS-HG30-I	MF-HG50-7
Type	HG Cassette Sprocket	HG Cassette sprocket	HG Cassette sprocket	HG Cassette Sprocket	HG Cassette Sprocket	HG Cassette sprocket	HG Multiple freewheel
Combination	Speed	8	8	7	8	8	7
	9	-	-	-	-	-	-
	8	32	34	-	30	32	-
	7	28	26	34	26	28	34
	6	24	23	26	23	24	24
	5	21	20	22	20	21	21
	4	18	17	18	17	18	18
	3	15	15	15	15	15	15
	2	13	13	13	13	13	13
1	11	11	11	11	11	11	11
Group	aw	ao	at	an	aw	ac	-
Chain	IG/HG	IG/HG	IG/HG	IG/HG	IG/HG	IG/HG	HG/UG
Spider Arm	-	-	-	-	-	-	-
Aluminum Lock Ring	-	-	-	-	-	-	-
Steel Cog	11-32T	11-34T	11-34T	11-30T	11-32T	11-28T	11-34T
Ti Cog	-	-	-	-	-	-	-
Finish	Ni-plated	Ni-plated	Ni-plated	Brown & Black	Brown & Black	Ni-plated	Ni-plated & Black
Note							

Cassette Sprocket (ATB / NEXAVE) Specifications

Series name	C-Series	Tourney	Tourney	Tourney	Tourney	Tourney	Tourney
Model No.	MF-HG50-7	MF-HG40-7	MF-HG37	MF-HG37	MF-HG40-6	MF-HG22	MF-HG22
Type	HG Multiple freewheel	HG Multiple freewheel	HG Multiple freewheel	HG Multiple freewheel	HG Multiple freewheel	HG Multiple freewheel	HG Multiple freewheel
Combination	Speed	7	7	7	7	6	6
	9	-	-	-	-	-	-
	8	-	-	-	-	-	-
	7	28	34	28	28	-	-
	6	24	24	24	24	34	28
	5	21	22	22	21	24	24
	4	18	20	20	19	21	21
	3	15	18	18	17	18	18
	2	13	16	16	15	16	16
1	11	14	14	13	14	14	
Group	-	-	-	bz	ay	X	Y
Chain	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG	HG/UG
Spider Arm	-	-	-	-	-	-	-
Aluminum Lock Ring	-	-	-	-	-	-	-
Steel Cog	11-28T	14-34T	14-28T	13-28T	14-34T	14-24T	14-28T
Ti Cog	-	-	-	-	-	-	-
Finish	Ni-plated & Black	Ni-plated	Ni-plated	Ni-plated	Ni-plated	Ni-plated	Ni-plated
Note							

Cassette Sprocket (ATB / NEXAVE) Specifications

Series name		Tourney	Tourney	TZ	TZ	TZ
Model No.		MF-Z015	MF-Z015	MF-TZ37	MF-TZ07	MF-TZ06
Type		UG Multiple freewheel	UG Multiple freewheel	HG/UG Multiple freewheel	HG/UG Multiple freewheel	HG/UG Multiple freewheel
Combination	Speed	5	5	7	7	6
	9	-	-	-	-	-
	8	-	-	-	-	-
	7	-	-	34	28	-
	6	-	-	24	24	28
	5	24	28	22	22	24
	4	21	24	20	20	21
	3	19	20	18	18	18
	2	17	17	16	16	16
1	14	14	14	14	14	
Group		-	-	-	-	-
Chain		UG/HP	UG/HP	HG/UG	HG/UG	HG/UG
Spider Arm		-	-	-	-	-
Aluminum Lock Ring		-	-	-	-	-
Steel Cog		14-24T	14-28T	14-34T	14-28T	14-28T
Ti Cog		-	-	-	-	-
Finish		Brown	Brown	Brown & Black	Brown & Black	Brown & Black
Note						

Chain (ATB / NEXAVE) Specifications

Series	XTR Saint	Deore XT	Deore LX Deore NEXAVE	Deore NEXAVE	Alivio NEXAVE T400	Acera	Acera	Altus NEXAVE T300	Tourney	Tourney
Model No.	CN-7701	CN-HG93	CN-HG73	CN-HG53	CN-IG51	CN-IG51	CN-IG31	CN-HG50	CN-HG50	CN-UG51
Type	Super Narrow HG for 9 speed	Super Narrow HG for 9 speed	Super Narrow HG for 9 speed	Super Narrow HG for 9 speed	IG	IG	IG	HG	HG	UG
Pin Link Plate	Zinc-Alloy Plated	Zinc-Alloy Plated	Gray	Gray	Ni-Plated	Ni-plated	Gray	Black	Black	Gray
Roller Link Plate	Zinc-Alloy Plated	Gray	Gray	Black	Gray	Gray	Black	Black	Black	Black
Chromizing Treatment Link Pin	X	X	X	X	X	X	-	X	X	-
Note	special rivet	special rivet	special rivet	special rivet		M330 Series	M330 Series			

Front Suspension (NEXAVE/Nexus/Di2) Specifications

Series		NEXAVE / Nexus	
Model No.		FS-C810	
Adjuster	Auto	X	
	Manual	X	
Pre-load adjuster		Dial type	
Travel		70mm (60+10)	
Damping		Cartridge Oil	
Spring		Coil	
Wheel Size	700C	26"	
V-Brake Fixation	X	-	
Disc Brake (International A) Fixation		X	
Compatible HRB		BR-IM75-F	
Dynamo Eye		-	
Mudguard Eye		X	
Disc BRK cable holder		X	
Crown	Material	Aluminum	
	Finish	Black Anodized	
Stanchion	Material	Cromoly	
	Finish	Chrome Plated	
Steer Diameter		25.4mm	28.6mm
Cone Race		26.4mm	30mm
Steer Threads		1 x 24T or Threadless	1-1/8 x 26T or Threadless
Steer Length (Threads / mm)		160 / 200 / 225 / 250	
Steer Length (Threadless / mm)		270	
Lower Tubes	Material	Magnesium	
	Color	Silver	
Dynamo Cable Cover		SM-FS10 (w/ bolts and nuts)	
Note		must be used with QR type hub	

Rear Suspension (NEXAVE/Nexus/Di2) Specifications

Series		NEXAVE / Nexus	
Model No.		RS-C810-25	RS-C810-45
Adjuster	Auto	X	X
	Manual	X	X
Travel		20mm	30mm
Damping		-	-
Spring		Air	Air
Eye to Eye		125mm	145mm
Note			

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Switch (NEXAVE/Nexus/Di2) Specifications

Series	NEXAVE	Nexus
Model No.	SW-C810	SW-8S40
Lever type	Seasaw & Button type	Seasaw & Button type
Left SW	FD : Triple	-
Right SW	RD : 8 speed	SG : 8 speed
Compatible Brake Lever	BL-C901/C800/C600	BL-C901/C800/C600
Compatible Front Derailleur	FD-C810	-
Compatible Rear Derailleur	RD-C810	-
Compatible SG	-	SG-8R45 / SG-8C45
Compatible Flight Deck	SC-C810	SC-8S40
Note		

Electronic Wire Cable(NEXAVE/Nexus/Di2) Specifications

Series		NEXAVE/ Nexus					
Model No.		EW-AA	EW-AB	EW-AC	EW-DD	EW-EF	EW-EG
Length*		450mm	700mm	280mm	900mm	450mm	540mm
		500mm	750mm	320mm	950mm		
		550mm	800mm	360mm	1000mm		
		600mm	850mm	400mm	1050mm		
		650mm	900mm	440mm	1100mm		
		700mm	1000mm	480mm			
		750mm	1100mm	500mm			
		800mm	1200mm	520mm			
			1250mm	560mm			
			1300mm				
Cuttable		-	X	X	X	X	X
For	C810	RD - FD	SC - FD	FS-SC bracket / RS-FD	-	FH-C810 - FD	FH-C811 - FD
	Cyber Nexus	MU - AI	AI - SC bracket	FS-SC bracket / AI-RS	DH - AI	-	-
Note							

* supplied as of Mar. 1, 2004

Rear Derailleur (Road) Specifications

Series	Dura-Ace	Dura-Ace	Ultegra	Ultegra	105	105	105	105	TIAGRA	
Model No.	RD-7800	RD-7700	RD-6600	RD-6600	RD-5501-S	RD-5501-S	RD-5501-L	RD-5501-L	RD-4400	
Pulley Cage	SS	Smart	SS	GS	SS	GS	SS	GS	SS	
Speeds	10	9	10	10	9	9	9	9	9	
Max Front Difference	14T	23T	14T	23T	14T	22T	14T	22T	14T	
Total Capacity	29T	38T	29T	38T	29T	37T	29T	37T	29T	
Max. Rear Sprocket	27T	27T	27T	27T	27T	27T	27T	27T	27T	
Min. Rear Sprocket	11T	11T	11T	11T	11T	11T	11T	11T	11T	
Riveted Adapter Available	-	-	-	-	-	-	-	-	-	
Direct Attachment	X	X	X	X	X	X	X	X	X	
Fluoric Coated Link Bushing	4	4	4	4	2	2	2	2	2	
11T Pulley	X	13/13T	X	X	X	X	X	X	X	
Sealed Bearing Guide Pulley	X	X	-	-	-	-	-	-	-	
Sealed Bearing Tension Pulley	X	X	X	X	-	-	-	-	-	
Bracket Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Painted	Painted	Barrel
Plate Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Painted	Painted	Barrel
Outer Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Painted	Painted	Barrel
Inner Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	Clear Coated	Clear Coated	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright	Zinc Plated
Outer Plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	Painted
Inner Plate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Steel
	Finish	Anodized	Anodized	Anodized	Anodized	Barrel	Barrel	Barrel	Barrel	Zinc Plated
Note	SIZE: SS(SHORT CAGE) < Smart Cage < GS (LONG CAGE)									

Rear Derailleur (Road) Specifications

Series	TIAGRA	SORA	SORA	2200	A050	
Model No.	RD-4400	RD-3300	RD-3300	RD-2200	RD-A050	
Pulley Cage	GS	SS	GS	Smart	Smart	
Speeds	9	8	8	8	7	
Max Front Difference	22T	14T	22T	22T	14T	
Total Capacity	37T	29T	37T	35T	29T	
Max. Rear Sprocket	27T	27T	27T	26T	28T	
Min. Rear Sprocket	11T	11T	11T	11T	13T	
Riveted Adapter Available	-	-	-	-	X	
Direct Attachment	X	X	X	X	X	
Fluoric Coated Link Bushing	2	-	-	-	-	
11T Pulley	X	X	X	13/13T	13/13T	
Sealed Bearing Guide Pulley	-	-	-	-	-	
Sealed Bearing Tension Pulley	-	-	-	-	-	
Bracket Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin
	Finish	Barrel	Barrel	Barrel	Painted	Painted
Plate Body	Material	Aluminum	Resin	Resin	Resin	Resin
	Finish	Barrel	Resin	Resin	Resin	Painted
Outer Link	Material	Aluminum	Steel	Steel	Steel	Steel
	Finish	Barrel	Pearl Plated	Pearl Plated	Painted	Chrome Plated
Inner Link	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated
Outer Plate	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Pearl Plated	Pearl Plated	Painted	Chrome Plated
Inner Plate	Material	Steel	Steel	Steel	Steel	Steel
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Painted
Note						

Front Derailleur (Road) Specifications

Series		Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Ultegra	Ultegra
Model No.		FD-7800-B	FD-7800-F	FD-7703-B	FD-7703-F	FD-6600-B	FD-6600-F
Rear Speeds		10	10	9	9	10	10
Front SIS		X	X	X	X	X	X
Chain Ring		Double	Double	Triple	Triple	Double	Double
Link Type		Conventional	Conventional	Conventional	Conventional	Conventional	Conventional
Mount Type		Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On
Applicable Chainline		43.5mm	43.5mm	45mm	45mm	43.5mm	43.5mm
Clamp Band Diameter		28.6/31.8mm	-	28.6/31.8mm	-	*(28.6)/31.8/34.9mm	-
Top Gear Teeth		50-56T	50-56T	53T	53T	50-56T	50-56T
Capacity		15T	15T	23T	23T	15T	15T
Chainstay Angle		61-66 Degrees	61-66 Degrees	63-66 Degrees	63-66 Degrees	61-66 Degrees	61-66 Degrees
Compatible Adapter	SM-AD11(31.8mm)	-	X	-	X	-	X
	SM-AD15(34.9mm)	-	X	-	X	-	X
Front Clamp Band	Material	Aluminum	-	Aluminum	-	Aluminum	-
	Finish	Anodized	-	Anodized	-	Clear Coated	-
Rear Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Clear Coated	Clear Coated
Outer Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Clear Coated	Clear Coated
Inner Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Clear Coated	Clear Coated
Chain Guide	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Nickel Plated	Nickel Plated	Nickel Plated	Nickel Plated	Pearl Bright	Pearl Bright
Note						*W/Multi Clamp Band	

Front Derailleur (Road) Specifications

Series	Ultegra	Ultegra	105	105	105	105	105	
Model No.	FD-6603-B	FD-6603-F	FD-5501-SB	FD-5501-SF	FD-5504-SB	FD-5504-SF	FD-5501-LB	
Rear Speeds	10	10	9	9	9	9	9	
Front SIS	X	X	X	X	X	X	X	
Chain Ring	Triple	Triple	Double	Double	Triple	Triple	Double	
Link Type	Conventional	Conventional	Conventional	Conventional	Conventional	Conventional	Conventional	
Mount Type	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band	
Applicable Chainline	45mm	45mm	43.5mm	43.5mm	45mm	45mm	43.5mm	
Clamp Band Diameter	*(28.6)/31.8/34.9mm	-	28.6/31.8mm	-	28.6/31.8mm	-	28.6/31.8mm	
Top Gear Teeth	52T	52T	50-56T	50-56T	52T	52T	50-56T	
Capacity	22T	22T	15T	15T	22T	22T	15T	
Chainstay Angle	63-66 Degrees	63-66 Degrees	61-66 Degrees	61-66 Degrees	63-66 Degrees	63-66 Degrees	61-66 Degrees	
Compatible Adapter	SM-AD11(31.8mm)	-	X	-	X	-	X	-
	SM-AD15(34.9mm)	-	X	-	X	-	X	-
Front Clamp Band	Material	Aluminum	-	Aluminum	-	Aluminum	-	Aluminum
	Finish	Clear Coated	-	Clear Coated	-	Clear Coated	-	Painted
Rear Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Painted
Outer Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Painted
Inner Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Clear Coated	Clear Coated	Barrel	Barrel	Barrel	Barrel	Barrel
Chain Guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Pearl Bright	Pearl Bright	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Note	*W/Multi Clamp Band							

Front Derailleur (Road) Specifications

Series		105	105	105	Non-Series	Non-Series	Non-Series	Non-Series
Model No.		FD-5501-LF	FD-5504-LB	FD-5504-LF	FD-R440-B	FD-R440-F	FD-R443-B	FD-R443-F
Rear Speeds		9	9	9	9	9	9	9
Front SIS		X	X	X	X	X	X	X
Chain Ring		Double	Triple	Triple	Double	Double	Triple	Triple
Link Type		Conventional	Conventional	Conventional	Conventional	Conventional	Conventional	Conventional
Mount Type		Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On	Clamp Band	Brazed-On
Applicable Chainline		43.5mm	45mm	45mm	43.5mm	43.5mm	45mm	45mm
Clamp Band Diameter		-	28.6/31.8mm	-	28.6/31.8mm	-	28.6/31.8mm	-
Top Gear Teeth		50-56T	52T	52T	50-56T	50-56T	52T	52T
Capacity		15T	22T	22T	15T	15T	22T	22T
Chainstay Angle		61-66 Degrees	63-66 Degrees	63-66 Degrees	61-66 Degrees	61-66 Degrees	63-66 Degrees	63-66 Degrees
Compatible Adapter	SM-AD11(31.8mm)	X	-	X	-	X	-	X
	SM-AD15(34.9mm)	X	-	X	-	X	-	X
Front Clamp Band	Material	-	Aluminum	-	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	-	Painted	-	Barrel	Barrel	Barrel	Barrel
Rear Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	-	Aluminum	-
	Finish	Painted	Painted	Painted	Barrel	-	Barrel	-
Outer Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Painted	Barrel	Barrel	Barrel	Barrel
Inner Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Barrel	Barrel	Barrel	Barrel	Barrel	Barrel	Barrel
Chain Guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Note					Designed to work with Flat handlebar shifter SL-R660/R440.		Designed to work with Flat handlebar shifter SL-R660/R440.	

Front Derailleur (Road) Specifications

Series	TIAGRA	TIAGRA	TIAGRA	TIAGRA	Non-Series	Non-Series	
Model No.	FD-4400-B	FD-4400-F	FD-4403-B	FD-4403-F	FD-R440A-B	FD-R440A-F	
Rear Speeds	9	9	9	9	8	8	
Front SIS	X	X	X	X	X	X	
Chain Ring	Double	Double	Triple	Triple	Double	Double	
Link Type	Conventional	Conventional	Conventional	Conventional	Conventional	Conventional	
Mount Type	Clamp Band	Brazed-on	Clamp Band	Brazed-On	Clamp Band	Brazed-On	
Applicable Chainline	43.5mm	43.5mm	45mm	45mm	43.5mm	43.5mm	
Clamp Band Diameter	28.6/31.8mm	-	28.6/31.8mm	-	28.6/31.8mm	-	
Top Gear Teeth	50-56T	50-56T	52T	52T	53T	53T	
Capacity	15T	15T	22T	22T	15T	15T	
Chainstay Angle	61-66 Degrees	61-66 Degrees	63-66 Degrees	63-66 Degrees	61-66 Degrees	61-66 Degrees	
Compatible Adapter	SM-AD11(31.8mm)	-	X	-	X	-	X
	SM-AD15(34.9mm)	-	X	-	X	-	X
Front Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Barrel	Barrel	Barrel	Barrel	Barrel	Barrel
Rear Clamp Band	Material	Aluminum	-	Aluminum	-	Aluminum	-
	Finish	Barrel	-	Barrel	-	Barrel	-
Outer Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Barrel	Barrel	Barrel	Barrel	Barrel	Barrel
Inner Link	Material	Zinc	Zinc	Zinc	Zinc	Aluminum	Aluminum
	Finish	Pearl Plated	Pearl Plated	Pearl Plated	Pearl Plated	Barrel	Barrel
Chain Guide	Material	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Note					Designed to work with Flat handlebar shifter SL-R440/ST-R220.		

Front Derailleur (Road) Specifications

Series	Non-Series	Non-Series	SORA	SORA	SORA	SORA	2200	
Model No.	FD-R443A-B	FD-R443A-F	FD-3300-B	FD-3300-F	FD-3304-B	FD-3304-F	FD-2200-B	
Rear Speeds	8	8	8	8	8	8	8	
Front SIS	X	X	X	X	X	X	X	
Chain Ring	Triple	Triple	Double	Double	Triple	Triple	Double	
Link Type	Conventional	Conventional	Conventional	Conventional	Conventional	Conventional	Conventional	
Mount Type	Clamp Band	Brazed-On	Clamp Band	Brazed-on	Clamp Band	Brazed-On	Clamp Band	
Applicable Chainline	45mm	45mm	43.5mm	43.5mm	45mm	45mm	43.5mm	
Clamp Band Diameter	28.6/31.8mm	-	28.6/31.8mm	-	28.6/31.8mm	-	28.6/31.8mm	
Top Gear Teeth	52T	52T	53T	53T	52T	52T	53T	
Capacity	22T	22T	15T	15T	22T	22T	15T	
Chainstay Angle	63-66 Degrees	63-66 Degrees	61-66 Degrees	61-66 Degrees	63-66 Degrees	63-66 Degrees	61-66 Degrees	
Compatible Adapter	SM-AD11(31.8mm)	-	X	-	X	-	X	-
	SM-AD15(34.9mm)	-	X	-	X	-	X	-
Front Clamp Band	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Barrel	Barrel	Barrel	Barrel	Barrel	Barrel	Painted
Rear Clamp Band	Material	Aluminum	-	Steel	-	Steel	-	Steel
	Finish	Barrel	-	Pearl Plated	-	Pearl Plated	-	Painted
Outer Link	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Barrel	Barrel	Barrel	Barrel	Barrel	Barrel	Painted
Inner Link	Material	Aluminum	Aluminum	Zinc	Zinc	Aluminum	Aluminum	Steel
	Finish	Barrel	Barrel	Pearl Plated	Pearl Plated	Barrel	Barrel	Painted
Chain Guide	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Note	Designed to work with Flat handlebar shifter SL-R440/ST-R223.						For ST-R500, ST-3300/3304	

Front Derailleur (Road) Specifications

Series		2200	2200	2200	A050
Model No.		FD-2200-F	FD-2203-B	FD-2203-F	FD-A050
Rear Speeds		8	8	8	7
Front SIS		X	X	X	-
Chain Ring		Double	Triple	Triple	Double
Link Type		Conventional	Conventional	Conventional	Conventional
Mount Type		Brazed-on	Clamp Band	Brazed-On	Clamp Band
Applicable Chainline		43.5mm	45mm	45mm	43.5mm
Clamp Band Diameter		-	28.6/31.8mm	-	
Top Gear Teeth		53T	52T	52T	53T
Capacity		15T	22T	22T	15T
Chainstay Angle		61-66 Degrees	63-66 Degrees	63-66 Degrees	61-66 Degrees
Compatible Adapter	SM-AD11(31.8mm)	X	-	X	-
	SM-AD15(34.9mm)	X	-	X	-
Front Clamp Band	Material	Aluminum	Aluminum	Aluminum	Steel
	Finish	Painted	Painted	Painted	Zinc Plated
Rear Clamp Band	Material	-	Steel	-	Steel
	Finish	-	Painted	-	Zinc Plated
Outer Link	Material	Aluminum	Aluminum	Aluminum	Steel+Resin
	Finish	Painted	Painted	Painted	Zinc Plated
Inner Link	Material	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Painted	Zinc Plated
Chain Guide	Material	Steel	Steel	Steel	Steel
	Finish	Chrome Plated	Chrome Plated	Chrome Plated	Chrome Plated
Note		For ST-R500, ST-3300/3304	For ST-R500, ST-3300/3304	For ST-R500, ST-3300/3304	

Shift / Brake Lever (Road) Specifications

Series		Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	
Model No.		ST-7800	SL-7800	SL-BS78	ST-7703	SL-7700	SL-BS77	
Lever Type		Dual Control Lever	Down Tube Shifter	Bar end Shifter	Dual Control Lever	Down Tube Shifter	Bar end Shifter	
Shift Lever Specifications	Front	Double	Double / Triple	Double / Triple	Triple	Double / Triple	Double / Triple	
	Rear	10	10	10	-	9	9	
	Optical Gear Display Unit		X	-	-	X	-	-
	Flight Deck	With Gear Sensor	X	-	-	X	-	-
		Without Gear Sensor	-	-	-	-	-	-
	Multi-Bearing Construction		2	-	-	2	-	-
	Outer Casing	Lever side	SP41	-	SP41	SP40	-	SP40
		RD side	SP41 Sealed	SP41 Sealed	SP41 Sealed	-	SP40 Sealed	SP40 Sealed
Stainless Cable		X	X	X	X	X	X	
Brake Lever Specifications	Reach adjust	-	-	-	-	-	-	
	Clamp Band	23.8mm/ 24.2mm	-	-	23.8mm/ 24.2mm	-	-	
	Super SLR	X	-	-	X	-	-	
Bracket	Material	Engineering Composite	-	-	Engineering Plastic	-	-	
	Finish	Engineering Composite	-	-	Engineering Plastic	-	-	
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Anodized	Clear Coated	Clear Coated	Anodized	Clear Coated	Clear Coated	
Note					Front Lever			

Shift / Brake Lever (Road) Specifications

Series		Ultegra	Ultegra	Ultegra	Non-Series	Non-Series	
Model No.		ST-6600	ST-6603	SL-BS64-8	ST-R600	BL-R600	
Lever Type		Dual Control Lever	Dual Control Lever	Bar end Shifter	Dual Control Lever	Brake Lever	
Shift Lever Specifications	Front	Double	Triple	Double / Triple	Double / Triple	-	
	Rear	10	-	8	9	-	
	Optical Gear Display Unit		-	-	-	-	-
	Flight Deck	With Gear Sensor	X	X	-	X	-
		Without Gear Sensor	-	-	-	-	-
	Multi-Bearing Construction		1	1	-	-	-
	Outer Casing	Lever side	SP41	SP41	SP40	SP40	-
		RD side	SP41 Sealed	-	SP40 Sealed	SP40 Sealed	-
Stainless Cable		X	X	X	X	-	
Brake Lever Specifications	Reach adjust	-	-	-	X	-	
	Clamp Band	23.8mm/ 24.2mm	23.8mm/ 24.2mm	-	23.8mm/ 24.2mm	23.8mm/ 24.2mm	
	Super SLR	X	X	-	-	X	
Bracket	Material	Engineering Plastic	Engineering Plastic	-	Engineering Plastic	Aluminum	
	Finish	Engineering Plastic	Engineering Plastic	-	Engineering Plastic	Barrel	
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Clear Coated	Clear Coated	Clear Coated	Clear Coated	Anodized	
Note			Front Lever				

Shift / Brake Lever (Road) Specifications

Series		105	105	TIAGRA	Non-Series	Non-Series	Non-Series	
Model No.		ST-5510-S	ST-5510-L	ST-4400	ST-R500	SL-R400	BL-R400	
Lever Type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Down Tube Shifter	Brake Lever	
Shift Lever Specifications	Front	Double / Triple	Double / Triple	Double / Triple	Double / Triple	Double / Triple	-	
	Rear	9	9	9	8	8	-	
	Optical Gear Display Unit		-	-	-	-	-	-
	Flight Deck	With Gear Sensor	X	X	X	X	-	-
		Without Gear Sensor	-	-	-	-	-	-
	Multi-Bearing Construction		-	-	-	-	-	-
	Outer Casing	Lever side	SP40	SP40	SP40	SP40	-	-
		RD side	SP40 Sealed	SP40 Sealed	SP40 Sealed	SP40 Sealed	SP40	-
Stainless Cable		X	X	X	X	-	-	
Brake Lever Specifications	Reach adjust	-	-	-	-	-	-	
	Clamp Band	23.8mm / 24.2mm	23.8mm / 24.2mm	23.8mm / 24.2mm	23.8mm / 24.2mm	-	23.8mm / 24.2mm	
	Super SLR	X	X	X	X	-	X	
Bracket	Material	Engineering Plastic	Engineering Plastic	Engineering Plastic	Engineering Plastic	-	Aluminum	
	Finish	Engineering Plastic	Engineering Plastic	Engineering Plastic	Engineering Plastic	-	Barrel	
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Clear Coated	Painted	Painted	Clear Coated	Barrel	Anodized	
Note								

Shift / Brake Lever (Road) Specifications

Series		SORA	SORA	Non-Series	Non-Series	A050	A050	
Model No.		ST-3300	ST-3304	ST-3300-7	ST-3304-7	SL-A050-7R	SL-A050-LN	
Lever Type		Dual Control Lever	Dual Control Lever	Dual Control Lever	Dual Control Lever	Handle Bar Mount Shifter	Handle Bar Mount Shifter	
Shift Lever Specifications	Front	Double	Triple	Double	Triple	-	Double	
	Rear	8	-	7	-	7	-	
	Optical Gear Display Unit		-	-	-	-	-	-
	Flight Deck	With Gear Sensor	X	X	-	-	-	-
		Without Gear Sensor	-	-	X	X	-	-
	Multi-Bearing Construction		-	-	-	-	-	-
	Outer Casing	Lever side	SP40	SP40	SP40	SP40	SIS	SIS
		RD side	SP40 Sealed	SP40 Sealed	SP40 Sealed	SP40 Sealed	SIS	SIS
Stainless Cable		X	X	X	X	-	-	
Brake Lever Specifications	Reach adjust	X	X	X	X	-	-	
	Clamp Band	23.8mm / 24.2mm	23.8mm / 24.2mm	23.8mm / 24.2mm	23.8mm / 24.2mm	25.6mm	25.6mm	
	Super SLR	-	-	-	-	-	-	
Bracket	Material	Engineering Plastic	Engineering Plastic	Engineering Plastic	Engineering Plastic	Steel	Steel	
	Finish	Engineering Plastic	Engineering Plastic	Engineering Plastic	Engineering Plastic	Zinc Plated	Zinc Plated	
Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Resin	Resin	
	Finish	Painted	Painted	Painted	Painted	Resin	Resin	
Note			Front Lever W/Trim		Front Lever W/Trim			

Shift / Brake Lever (Road) Specifications

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model No.		SL-SY20A-6-STEM	SL-SY20A-7-STEM	SL-SY20A-6-D	SL-SY20A-7-D	SL-SY20A-6-D/BAND	SL-SY20A-7-D/BAND	
Lever Type		Stem Mount Shifter	Stem Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter	Down Tube Mount Shifter	
Shift Lever Specifications	Front	Double/Friction	Double/Friction	Double/Friction	Double/Friction	Double/Friction	Double/Friction	
	Rear	6	7	6	7	6	7	
	Optical Gear Display Unit		-	-	-	-	-	-
	Flight Deck	With Gear Sensor	-	-	-	-	-	-
		Without Gear Sensor	-	-	-	-	-	-
	Multi-Bearing Construction		-	-	-	-	-	-
	Outer Casing	Lever side	SIS	SIS	SIS	SIS	SIS	SIS
		RD side	SIS	SIS	SIS	SIS	SIS	SIS
Stainless Cable		-	-	-	-	-	-	
Brake Lever Specifications	Reach adjust	-	-	-	-	-	-	
	Clamp Band	22.2mm	22.2mm	22.2mm	22.2mm	22.2mm	22.2mm	
	Super SLR	-	-	-	-	-	-	
Bracket	Material	Steel	Steel	Steel	Steel	Steel	Steel	
	Finish	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	Zinc Plated	
Lever	Material	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	
	Finish	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	Resin+Zinc Cap	
Note				Brazed On Type	Brazed On Type	Band Type	Band Type	

Shift / Brake Lever (Road) Specifications

Series		Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	Non-Series	
Model No.		SL-R660	SL-R440	SL-R440-8	ST-R220	ST-R224	BL-R440	
Lever Type		Rapidfire Plus	Rapidfire Plus	Rapidfire Plus	EZ-fire Plus	EZ-fire Plus	Brake Lever	
Shift Lever Specifications	Front	Double / Triple	Double / Triple	Double / Triple	Double	Triple	-	
	Rear	9	9	8	8	-	-	
	Optical Gear Display Unit		Detachable/ Above handlebar	Detachable/ Above handlebar	Detachable/ Above handlebar	Dial type	Dial type	-
	Flight Deck	With Gear Sensor	-	-	-	-	-	-
		Without Gear Sensor	*1	*1	*1	-	-	-
	Multi-Bearing Construction		2	-	-	-	-	-
	Outer Casing	Lever side	SP40	SP40	SP40	SP40	SP40	-
		RD side	SP40 Sealed	SP40 Sealed	SP40 Sealed	SP40	SP40	-
Stainless Cable		X	X	X	-	-	-	
Brake Lever Specifications	Reach adjust	-	-	-	X	X	X	
	Clamp Band	22.2mm	22.2mm	22.2mm	22.2mm	22.2mm	22.2mm	
	Super SLR	-	-	-	-	-	-	
Bracket	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
	Finish	Clear Coated	Painted	Painted	Painted	Painted	Painted	
Lever	Material	Aluminum+Resin	Steel+Resin	Steel	SL:Steel+Resin BL:Aluminum	SL:Steel+Resin BL:Aluminum	Aluminum	
	Finish	Clear Coated	Black Plated	Black Plated	SL:Black Plated BL:Anodized	SL:Black Plated BL:Anodized	Anodized	
Note						Front Lever W/Trim		
		For flat handlebar.						
		*1 SM-6500/6501-M available				Caliper/Canti/Roller/V-brake		Caliper/Canti/Roller







Brake (Road) Specifications

Series		Dura-Ace	Ultegra	Non-Series	105	105
Model No.		BR-7800	BR-6600	BR-R600	BR-5501-S	BR-5501-L
Type		Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot	Super SLR Dual Pivot
Reach		49mm	49mm	57mm	49mm	49mm
Brake Shoe	Standard	R55C2	R55C2	R55C+1	R55C	R55C
	Optional choice	R55C+1 R55C for carbon rim R55C for ceramic rim	R55C for carbon rim R55C for ceramic rim	R55HC R55C for carbon rim R55C for ceramic rim	R55HC R55C for carbon rim R55C for ceramic rim	R55HC R55C for carbon rim R55C for ceramic rim
Assembly Pivot Nut (mm)		10.5 / 12.5 / 18.0 / 27.0	10.5 / 12.5 / 18.0 / 27.0	10.5 / 12.5 / 18.0	10.5 / 12.5 / 18.0	10.5 / 12.5 / 18.0
Cartridge Shoe Holder		X	X	X	X	X
Tire Guide Bumpers		X	X	X	-	-
QR		X	X	X	X	X
Shoe Angle Adjusting		X	X	-	-	-
Spring Tension Adjusting		X	X	-	-	-
Cartridge Shoe Holder	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Painted	Painted	Painted	Painted
C-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Y-arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Gate	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
QR	Material	Aluminum	Aluminum	Aluminum	Zinc	Zinc
	Finish	Plated	Painted	Painted	Pearl Bright Plated	Black Chrome Plated
Titanium Cable Fixing Bolt		X	-	-	-	-
Note						




Brake (Road) Specifications

Series		Non-Series	Non-Series	TIAGRA	SORA
Model No.		BR-A550-57	BR-R550	BR-4400	BR-3300
Type		Super SLR Dual Pivot	Canti-brake	Super SLR Dual Pivot	Super SLR Dual Pivot
Reach		57mm	49mm	49mm	49mm
Brake Shoe	Standard	R50T	S70C(severe condition)	R50T	R50T
	Optional choice	M50T	M70R2(severe condition) M70CT4(severe condition)	M50T	M50T
Assembly Pivot Nut (mm)		10.5 / 12.5	16/25mm	10.5 / 12.5 / 18.0	10.5 / 12.5 / 18.0/20.0
Cartridge Shoe Holder		-	X	-	-
Tire Guide Bumpers		-	-	-	-
QR		X	-	X	X
Shoe Angle Adjusting		-	X	-	-
Spring Tension Adjusting		-	X	-	-
Cartridge Shoe Holder	Material	-	Aluminum	-	-
	Finish	-	Painted	-	-
C-arm	Material	Aluminum	-	Aluminum	Aluminum
	Finish	Anodized	-	Anodized	Barrel
Y-arm	Material	Aluminum	-	Aluminum	Aluminum
	Finish	Anodized	-	Anodized	Barrel
Gate	Material	Aluminum	-	Aluminum	Aluminum
	Finish	Anodized	-	Anodized	Barrel
QR	Material	Zinc	-	Zinc	Steel
	Finish	Pearl Bright Plated	-	Black Chrome Plated	Pearl Plated
Titanium Cable Fixing Bolt		-	-	-	-
Note		SHIMANO Logo Available			

Front Chainwheel (Road) Specifications

Series		Dura-Ace	Dura-Ace	Dura-Ace(Track)	Ultegra	Ultegra	105
Model No.		FC-7800	FC-7703	FC-7710	FC-6600	FC-6603	FC-5502-S
Rear Speeds		10	9	Single	10	10	9
Chaining Combination		53-42T 52-39T 53-39T 50-39T 54-42T 55-42T 56-44T	53-39-30T	45T>>55T (1/2"X1/8") 45T>>55T (1/2"X3/32")	52-39T 53-39T	52-39-30T	53-42T 52-39T 53-39T 50-39T
PCD		130mm	130mm/92mm	144mm	130mm	130mm/74mm	130mm
Splined Crank		X	X	X	X	X	X
Crank Arm Length	160.0mm	-	-	-	-	-	-
	162.5mm	-	-	-	-	-	*
	165mm	X	X	X	X	X	X
	167.5mm	X	X	X	-	-	*
	170mm	X	X	X	X	X	X
	172.5mm	X	X	X	X	X	X
	175mm	X	X	X	X	X	X
	177.5mm	X	X	-	-	-	-
180mm	X	X	-	-	-	-	
Chain		Super Narrow HG for 10-speed	Super Narrow HG	1/2"X1/8" / 1/2"X3/32"	Super Narrow HG for 10-speed	Super Narrow HG for 10-speed	Super Narrow HG for 9-speed
Bottom Bracket	Model No.	SM-FC7800	BB-7703	BB-7710 / 7700	Included	Included	BB-5500
	Chain Line	43.5mm	X	-	X	-	109.5mm
		45mm	-	X	-	-	X
Optional Chain Guard		-	-	-	-	-	-
Hollowtech Crank Arm		X 	X 	X 	X 	X 	X 
One Key Release		-	X	X	-	-	-
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Top Gear	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Nickel Plated	Nickel Plated	Anodized	Anodized	Anodized
Middle Gear	Material	-	Aluminum	-	-	Aluminum	-
	Finish	-	Nickel Plated	-	-	Anodized	-
Low Gear	Material	Aluminum	Aluminum	-	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Nickel Plated	-	Anodized	Anodized	Anodized
Note							* Please contact with our sales staff.

Front Chainwheel (Road) Specifications

Series		105	105	105	TIAGRA	TIAGRA	TIAGRA	TIAGRA
Model No.		FC-5505-S	FC-5502-L	FC-5505-L	FC-4401	FC-4401-S	FC-4404	FC-4404-S
Rear Speeds		9	9	9	9	9	9	9
Chaining Combination		52-42-30T	53-42T 52-39T 53-39T 50-39T	52-42-30T	52-39T 50-39T	52-39T 50-39T	52-42-30T	52-42-30T
PCD		130mm / 74mm	130mm	130mm / 74mm	130mm	130mm	130mm / 74mm	130mm / 74mm
Splined Crank		X	X	X	X	X	X	X
Crank Arm Length	160.0mm	-	-	-	-	-	-	-
	162.5mm	-	*	-	-	-	-	-
	165mm	X	X	X	X	X	X	X
	167.5mm	-	*	-	-	-	-	-
	170mm	X	X	X	X	X	X	X
	172.5mm	-	X	-	-	-	-	-
	175mm	X	X	X	X	X	X	X
	177.5mm	-	-	-	-	-	-	-
180mm	-	-	-	-	-	-	-	
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	Super Narrow HG for 9-speed	Super Narrow HG for 9-speed
Bottom Bracket	Model No.	BB-5500	BB-5500	BB-5500	BB-ES51/30	BB-ES51/30	BB-ES51/30	BB-ES51/30
	Chain Line	43.5mm	-	109.5mm	-	113mm	113mm	-
		45mm	118.5mm	-	118.5mm	-	-	118mm
Optional Chain Guard		-	-	-	-	-	-	-
Hollowtech Crank Arm		X 	X 	X 	-	-	-	-
One Key Release		-	-	-	-	-	-	-
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Polished	Polished	Polished	Polished
Top Gear	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized	Anodized
Middle Gear	Material	Aluminum	-	Aluminum	-	-	Steel	Steel
	Finish	Anodized	-	Anodized	-	-	Painted	Pearl Plated
Low Gear	Material	Aluminum	Aluminum	Aluminum	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	Anodized	Painted	Pearl Plated	Painted	Pearl Plated
Note			* Please contact with our sales staff.			Silver Chain ring		Silver Chain ring

Front Chainwheel (Road) Specifications

Series		TIAGRA	TIAGRA	SORA	SORA	SORA	SORA	2200
Model No.		FC-4400	FC-4403	FC-3301	FC-3304	FC-3300	FC-3303	FC-2200
Rear Speeds		9	9	8	8	8	8	8
Chaining Combination		52-39T 50-39T	52-42-30T	52-39T 50-39T	52-42-30T	52-39T 50-39T	52-42-30T	52-39T 50-39T
PCD		130mm	130mm / 74mm	130mm	130mm / 74mm	130mm	130mm / 74mm	130mm
Splined Crank		-	-	X	X	-	-	-
Crank Arm Length	160.0mm	-	-	-	-	-	-	-
	162.5mm	-	-	-	-	-	-	-
	165mm	X	X	X	X	X	X	X
	167.5mm	-	-	-	-	-	-	-
	170mm	X	X	X	X	X	X	X
	172.5mm	-	-	-	-	-	-	-
	175mm	X	X	X	X	X	X	X
	177.5mm	-	-	-	-	-	-	-
180mm	-	-	-	-	-	-	-	
Chain		Super Narrow HG	Super Narrow HG	HG	HG	HG	HG	HG
Bottom Bracket	Model No.	BB-UN53	BB-UN53	BB-ES30	BB-ES30	BB-UN40	BB-UN40	BB-UN25
	Chain Line	43.5mm	MM110	113mm	-	MM110	-	MM110
		45mm	-	LL113	-	118mm	-	LL113
Optional Chain Guard		-	-	X	X	X	X	X
Hollowtech Crank Arm		-	-	-	-	-	-	-
One Key Release		-	-	-	-	-	-	-
Crank Arm	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Polished	Polished	Polished	Polished	Polished	Polished	Painted
Top Gear	Material	Aluminum	Aluminum	Steel	Steel	Steel	Steel	Steel
	Finish	Anodized	Anodized	Plated	Plated	Pearl Plated	Pearl Plated	Painted
Middle Gear	Material	-	Steel	-	Steel	-	Steel	-
	Finish	-	Painted	-	Plated	-	Pearl Plated	-
Low Gear	Material	Steel	Steel	Steel	Steel	Steel	Steel	Steel
	Finish	Painted	Painted	Plated	Plated	Pearl Plated	Pearl Plated	Painted
Note								

Front Chainwheel (Road) Specifications

Series		2200	A050
Model No.		FC-2203	FC-A050
Rear Speeds		8	7/8
Chainring Combination		52-42-30T	52-39T 50-39T
PCD		130mm / 74mm	130mm
Splined Crank		-	-
Crank Arm Length	160.0mm	-	X
	162.5mm	-	-
	165mm	X	-
	167.5mm	-	-
	170mm	X	X
	172.5mm	-	-
	175mm	X	-
	177.5mm	-	-
180mm	-	-	
Chain		HG	HG
Bottom Bracket	Model No.	BB-UN25	BB-UN25
	Chain Line	43.5mm	MM110
		45mm	-
Optional Chain Guard		X	X
Hollowtech Crank Arm		-	-
One Key Release		-	-
Crank Arm	Material	Aluminum	Aluminum
	Finish	Painted	Polished
Top Gear	Material	Steel	Steel
	Finish	Painted	Painted
Middle Gear	Material	Steel	-
	Finish	Painted	-
Low Gear	Material	Steel	Steel
	Finish	Painted	Painted
Note			

Bottom Bracket (Road) Specifications

Series Name				Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace(Track)	Ultegra	105 (Double)
Model No.				SM-FC7800	BB-7700	BB-7703	BB-7710	FC-6600/FC-6603	BB-5500
Applicable Front Chainwheel				FC-7800	FC-7710	FC-7703	FC-7710	Included	FC-5502
Hollow pipe				X	X	X	X	X	X
Cartridge Type				-	-	X	X	-	X
Splined Crank Arm Mounts				X	X	X	X	X	X
Axle Length	Hollowtech II	68mm	(BC1.37)	X	-	-	-	X	-
		70mm	(M36)	X	-	-	-	X	-
	109.5 mm	68mm	(BC1.37)	-	X	-	X	-	X
		70mm	(M36)	-	X	-	-	-	X
	118.5 mm	68mm	(BC1.37)	-	-	X	-	-	-
		70mm	(M36)	-	-	X	-	-	-
	113 mm	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	118 mm	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	MM107	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	MM110	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	LL113	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	D-H (115mm)	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
	XL118	68mm	(BC1.37)	-	-	-	-	-	-
		70mm	(M36)	-	-	-	-	-	-
D-NL (122.5mm)	68mm	(BC1.37)	-	-	-	-	-	-	
	70mm	(M36)	-	-	-	-	-	-	
Note									

Bottom Bracket (Road) Specifications

Series Name			105 (Triple)	TIAGRA (Double)	TIAGRA (Triple)	SORA (Double)	SORA (Triple)	2200 (Double)
Model No.			BB-5500	BB-ES51	BB-ES51	BB-ES30	BB-ES30	BB-UN25
Applicable Front Chainwheel			FC-5505	FC-4401	FC-4404	FC-3301	FC-3304	FC-2200
Hollow pipe			X	X	X	X	X	-
Cartridge Type			X	X	X	X	X	X
Splined Crank Arm Mounts			X	X	X	X	X	-
Axle Length	Hollowtech II	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
	109.5 mm	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
	118.5 mm	68mm (BC1.37)	X	-	-	-	-	-
		70mm (M36)	X	-	-	-	-	-
	113 mm	68mm (BC1.37)	-	X	-	X	-	-
		70mm (M36)	-	X	-	X	-	-
	118 mm	68mm (BC1.37)	-	-	X	-	X	-
		70mm (M36)	-	-	X	-	X	-
	MM107	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
	MM110	68mm (BC1.37)	-	-	-	-	-	X
		70mm (M36)	-	-	-	-	-	X
	LL113	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
	D-H (115mm)	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
	XL118	68mm (BC1.37)	-	-	-	-	-	-
		70mm (M36)	-	-	-	-	-	-
D-NL (122.5mm)	68mm (BC1.37)	-	-	-	-	-	-	
	70mm (M36)	-	-	-	-	-	-	
Note								

Bottom Bracket (Road) Specifications

Series Name				2200 (Triple)	A050
Model No.				BB-UN25	BB-UN25
Applicable Front Chainwheel				FC-2203	FC-A050
Hollow pipe				-	-
Cartridge Type				X	X
Splined Crank Arm Mounts				-	-
Axle Length	Hollowtech II	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)	-	-
	118 mm	68mm	(BC1.37)	-	-
		70mm	(M36)	-	-
	MM107	68mm	(BC1.37)	-	-
		70mm	(M36)	-	-
	MM110	68mm	(BC1.37)	-	X
		70mm	(M36)	-	X
	LL113	68mm	(BC1.37)	X	-
		70mm	(M36)	X	-
	D-H (115mm)	68mm	(BC1.37)	-	-
		70mm	(M36)	-	-
	XL118	68mm	(BC1.37)	-	-
		70mm	(M36)	-	-
D-NL (122.5mm)	68mm	(BC1.37)	-	-	
	70mm	(M36)	-	-	
Note					

Freehub (Road) Specifications

Series		Dura-Ace	Dura-Ace	Ultegra	105	105
Model No.		FH-7800	FH-7700	FH-6600	FH-5501-S	FH-5501-L
Spoke Hole	20H	X	X	-	-	-
	24H	X	X	X	-	-
	28H	X	X	X	-	-
	32H	X	X	X	X	X
	36H	X	X	X	X	X
	Aero spoke	24/28H	12/16/20/24/28H	24H	-	-
	Hole PCD	44mm	44mm	45mm	45mm	45mm
Freehub Body	Speeds	10	8/9	8/9/10	8/9	8/9
	11T Compatible	X	X	X	X	X
O.L.D.		130mm	130mm	130mm	130mm	130mm
Flange Distance		56.9	58.0	59.2	57.4	57.4
Dish		7.9	7.9	8.8	7.9	7.9
Axle	QR Skewer Length	163mm	163mm	163mm	163mm	163mm
	Length	141mm	141mm	141mm	141mm	141mm
	Material	Aluminum	Steel	Steel	Steel	Steel
Seal		Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact
Freehub Body	Material	Aluminum	Titanium	Steel	Steel	Steel
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
CBN (Cubic Boron Nitride)	Cone Races	*X	X	X	X	X
	Cup Races	*X	X	-	-	-
QR Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Anodized
Note		*Super Finishing			Silver Version	Black Version

Freehub (Road) Specifications

Series		TIAGRA	SORA	SORA	2200	2200
Model No.		FH-4400	FH-3300	FH-3300-B	FH-2200	FH-2200-L
Spoke Hole	20H	-	-	-	-	-
	24H	-	-	-	-	-
	28H	-	-	-	-	-
	32H	X	X	X	X	X
	36H	X	X	X	X	X
	Aero spoke	-	-	-	-	-
	Hole PCD	45mm	45mm	45mm	45mm	45mm
Freehub Body	Speeds	8/9	8/9	8/9	8/9	8/9
	11T Compatible	X	X	X	X	X
O.L.D.		130mm	130mm	130mm	130mm	130mm
Flange Distance		60.0	60.0	60.0	57.9	57.9
Dish		8.7	8.7	8.7	8.6	8.6
Axle	QR Skewer Length	163mm	163mm	163mm	163mm	163mm
	Length	141mm	141mm	141mm	141mm	141mm
	Material	Steel	Steel	Steel	Steel	Steel
Seal		Labyrinth and Contact	Single Contact	Single Contact	Single Contact	Single Contact
Freehub Body	Material	Steel	Steel	Steel	Steel	Steel
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Machined	Anodized	Machined	Anodized
CBN (Cubic Boron Nitride)	Cone Races	-	-	-	-	-
	Cup Races	-	-	-	-	-
QR Lever	Material	Aluminum	Aluminum	Aluminum	Steel	Steel
	Finish	Barrel	Barrel	Barrel	Chrome Plated	Black Chrome Plated
Note				Black Version with SHIMANO logo.		

Front Hub (Road) Specifications

Series		Dura-Ace	Dura-Ace(Track)	Dura-Ace
Model No.		HB-7800	HB-7710	HB-7700
Spoke Hole	24H	X	-	X
	28H	X	X	X
	32H	X	X	X
	36H	X	X	X
	Aero Spoke	18/24/28/32H	-	12/16/18/24/28/32H
	Hole PCD	40mm	38mm (Front) 44mm (Rear)	38mm
O.L.D.		100mm	100mm(Front) 120mm(Rear)	100mm
Flange Distance		74.0	74.0	74.0
Axle	QR Skewer Length	133mm	-	133mm
	Length	108mm	142mm(M9) (Front) 142mm(M10) (Rear)	108mm (11mm Diameter)
	Material	Aluminum	Steel	Aluminum
Seal		Labyrinth and Contact	Dust Cap	Labyrinth and Contact
CBN (Cubic Boron Nitride)	Cone Races	*X	X	X
	Cup Races	*X	X	X
Hub Shell	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized
QR Lever	Material	Aluminum	-	Aluminum
	Finish	Anodized	-	Anodized
Radial Lacing		X	-	*X
Note		*Super Finishing		*1: 12/16/18/24H Only

Front Hub (Road) Specifications

Series		Ultegra	105	105	TIAGRA	SORA
Model No.		HB-6600	HB-5501-AS	HB-5501-AL	HB-4400	HB-3300
Spoke Hole	24H	X	-	-	-	-
	28H	X	-	-	-	-
	32H	X	X	X	X	X
	36H	X	X	X	X	X
	Aero Spoke	18H	-	-	-	-
	Hole PCD	38mm	38mm	38mm	38mm	38mm
O.L.D.		100mm	100mm	100mm	100mm	100mm
Flange Distance		71.6	74.0	74.0	71.6	71.0
Axle	QR Skewer Length	133mm	133mm	133mm	133mm	133mm
	Length	108mm(M9)	108mm(M9)	108mm(M9)	108mm(M9)	108mm(M9)
	Material	Steel	Steel	Steel	Steel	Steel
Seal		Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact	Single Contact
CBN (Cubic Boron Nitride)	Cone Races	X	X	X	-	-
	Cup Races	-	-	-	-	-
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized	Machined
QR Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Barrel	Barrel
Radial Lacing		X	X	X	-	-
Note						

Front Hub (Road) Specifications

Series		SORA	2200	2200
Model No.		HB-3300-B	HB-2200	HB-2200-L
Spoke Hole	24H	-	-	-
	28H	-	-	-
	32H	X	X	X
	36H	X	X	X
	Aero Spoke	-	-	-
	Hole PCD	38mm	38mm	38mm
O.L.D.		100mm	100mm	100mm
Flange Distance		71.0	71.6	71.6
Axle	QR Skewer Length	133mm	133mm	133mm
	Length	108mm(M9)	108mm(M9)	108mm(M9)
	Material	Steel	Steel	Steel
Seal		Single Contact	Single Contact	Single Contact
CBN (Cubic Boron Nitride)	Cone Races	-	-	-
	Cup Races	-	-	-
Hub Shell	Material	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Machined	Anodized
QR Lever	Material	Aluminum	Steel	Steel
	Finish	Barrel	Chrome Plated	Black Chrome Plated
Radial Lacing		-	-	-
Note		Black Version with SHIMANO Logo		

Cassette Sprocket (Road) Specifications

Series	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	
Model No.	CS-7800	CS-7800	CS-7800	CS-7800	CS-7800	CS-7800	CS-7700	CS-7700	
Speeds	10	10	10	10	10	10	9	9	
Type	HG	HG	HG	HG	HG	HG	HG	HG	
Combination	10	21	23	21	23	25	27	-	-
	9	19	21	20	21	23	24	21	23
	8	18	19	19	19	21	21	19	21
	7	17	17	18	18	19	19	17	19
	6	16	16	17	17	17	17	16	17
	5	15	15	16	16	16	16	15	15
	4	14	14	15	15	15	15	14	14
	3	13	13	14	14	14	14	13	13
	2	12	12	13	13	13	13	12	12
1	11	11	12	12	12	12	11	11	
Group	-	-	-	-	-	-	-	-	
Chain	Super narrow HG chain for 10-speed	Super narrow HG chain for 10-speed	Super narrow HG chain for 10-speed	Super narrow HG chain for 10-speed	Super narrow HG chain for 10-speed	Super narrow HG chain for 10-speed	Super narrow HG chain for 9-speed	Super narrow HG chain for 9-speed	
Spider Arm	2	2	2	2	2	2	2	2	
Aluminum Lock Ring	X	X	X	X	X	X	X	X	
Material	Steel	11-17T	11-17T	12-17T	12-17T	12-17T	12-17T	11-17T	11-19T
	Titanium	18-19-21T	19-21-23T	18-19-20-21T	18-19-21-23T	19-21-23-25T	19-21-24-27T	19-21T	21-23T
Finish	Ni Plated & Titanium	Ni Plated & Titanium	Ni Plated & Titanium	Ni Plated & Titanium	Ni Plated & Titanium	Ni Plated & Titanium	Ni Plated & Titanium	Ni Plated & Titanium	
Note									

Cassette Sprocket (Road) Specifications

Series		Dura-Ace	Dura-Ace	Dura-Ace	Dura-Ace	Ultegra	Ultegra	Ultegra	Ultegra
Model No.		CS-7700	CS-7700	CS-7700	CS-7700	CS-6600	CS-6600	CS-6600	CS-6600
Speeds		9	9	9	9	10	10	10	10
Type		HG	HG	HG	HG	HG	HG	HG	HG
Combination	10	-	-	-	-	23	23	25	27
	9	21	23	25	27	21	21	23	24
	8	19	21	23	24	19	19	21	21
	7	18	19	21	21	17	18	19	19
	6	17	17	19	19	16	17	17	17
	5	16	16	17	17	15	16	16	16
	4	15	15	15	15	14	15	15	15
	3	14	14	14	14	13	14	14	14
	2	13	13	13	13	12	13	13	13
1	12	12	12	12	11	12	12	12	
Group		-	-	-	-	-	-	-	-
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 chain for 10-speed	Super narrow HG chain for 10-speed	Super narrow HG chain for 10-speed	Super narrow HG chain for 10-speed
Spider Arm		2	2	2	2	1	1	1	1
Aluminum Lock Ring		X	X	X	X	-	-	-	-
Material	Steel	12-17T	12-17T	12-19T	12-19T	11-23T	12-23T	12-25T	12-27T
	Titanium	18-19-21T	19-21-23T	21-23-25T	21-24-27T	-	-	-	-
Finish		Ni Plated & Titanium	Ni Plated & Titanium	Ni Plated & Titanium	Ni Plated & Titanium	Ni Plated	Ni Plated	Ni Plated	Ni Plated
Note									

Cassette Sprocket (Road) Specifications

Series	Ultegra	Ultegra	Ultegra	Ultegra	105	105	105	105
Model No.	CS-6600	CS-6600	CS-6600	CS-6600	CS-HG70-9	CS-HG70-9	CS-HG70-9	CS-HG70-9
Speeds	10	10	10	10	9	9	9	9
Type	HG	HG	HG	HG	HG	HG	HG	HG
Combination	10	25	25	25	27	-	-	-
	9	23	23	23	25	23	25	23
	8	21	21	22	23	21	23	21
	7	19	20	21	22	19	21	19
	6	18	19	20	21	17	19	18
	5	17	18	19	20	16	17	17
	4	16	17	18	19	15	15	16
	3	15	16	17	18	14	14	15
	2	14	15	16	17	13	13	14
1	13	14	15	16	12	12	13	
Group	-	-	-	-	-	-	-	-
Chain	Super narrow HG chain for 10-speed	Super narrow HG chain for 10-speed	Super narrow HG chain for 10-speed	Super narrow HG chain for 10-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
Spider Arm	1	1	1	1	-	-	-	-
Aluminum Lock Ring	-	-	-	-	-	-	-	-
Material	Steel	13-25T	14-25T	15-25T	16-27T	12-23T	12-25T	13-23T
	Titanium	-	-	-	-	-	-	-
Finish	Ni Plated	Ni Plated	Ni Plated	Ni Plated	Pearl Bright	Pearl Bright	Pearl Bright	Pearl Bright
Note	Not compatible with FH-7800 /WH-7800	Not compatible with FH-7800 /WH-7800	Not compatible with FH-7800 /WH-7800	Not compatible with FH-7800 /WH-7800				

Cassette Sprocket (Road) Specifications

Series	TIAGRA	TIAGRA	TIAGRA	TIAGRA	SORA 2200	SORA 2200	SORA 2200	SORA 2200	SORA 2200	
Model No.	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-9	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	CS-HG50-8	
Speeds	9	9	9	9	8	8	8	8	8	
Type	HG	HG	HG	HG	HG	HG	HG	HG	HG	
Combination	10	-	-	-	-	-	-	-	-	
	9	23	25	25	25	-	-	-	-	
	8	21	23	23	23	21	23	25	26	
	7	19	21	21	21	19	21	23	23	
	6	17	19	19	19	17	19	21	21	
	5	16	17	17	18	16	17	19	19	
	4	15	15	16	17	15	15	17	17	
	3	14	14	15	16	14	14	15	15	
	2	13	13	14	15	13	13	13	14	
1	12	12	13	14	12	12	12	13	13	
Group	-	-	-	-	S	U	W	T	V	
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	HG	HG	HG	HG	HG	
Spider Arm	-	-	-	-	-	-	-	-	-	
Aluminum Lock Ring	-	-	-	-	-	-	-	-	-	
Material	Steel	12-23T	12-25T	13-25T	14-25T	12-21T	12-23T	12-25T	13-23T	13-26T
	Titanium	-	-	-	-	-	-	-	-	-
Finish	Ni Plated	Ni Plated	Ni Plated	Ni Plated	Ni Plated	Ni Plated	Ni Plated	Ni Plated	Ni Plated	
Note										

Chain (Road) Specifications

Series	Dura-Ace	Dura-Ace	Ultegra	105	TIAGRA	SORA 2200
Model No.	CN-7800	CN-7701	CN-6600	CN-HG73	CN-HG53	CN-HG50
Type	Super Narrow HG for 10-Speed	Super Narrow HG for 9-Speed	Super Narrow HG for 10-Speed	Super Narrow HG for 9-Speed	Super Narrow HG for 9 speed	HG
Pin Link Plate	Zinc-Alloy Plated	Zinc-Alloy Plated	Zinc-Alloy Plated	Gray	Gray	Black
Roller Link Plate	Zinc-Alloy Plated	Zinc-Alloy Plated	Gray	Gray	Black	Black
Chromizing Treatment Link Pin	X	X	X	X	X	X
Note	special rivet	special rivet	special rivet	special rivet	special rivet	

Head Parts (Road) Specifications

Series		Dura-Ace	Ultegra	105	105
Model No.		HP-7410	HP-6500	HP-5501-S	HP-5501-L
Size		JIS ENGLISH	JIS ENGLISH	JIS ENGLISH	JIS ENGLISH
Thread		BC1"x24T.PT.I.	BC1"x24T.PT.I.	BC1"x24T.PT.I.	BC1"x24T.PT.I.
Sealed Cartridge Bearings		X	X	X	X
Stack Height		37.6mm	37.6mm	37.6mm	37.6mm
Lock Nut	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Upper / Lower Cups	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Upper Stem Cone	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Stem Cone	Material	Aluminum	Steel	Steel	Steel
	Finish	Anodized	Painted	Painted	Painted
Note					

Seat Post (Road) Specifications

Series		Dura-Ace	Ultegra
Model No.		SP-7410	SP-6600
Post Type		Round	Round
Outer Diameter	26.8mm	X	-
	27.0mm	X	X
	27.2mm	X	X
Length		270mm	270mm
One-bolt Clamp		X	X
Easy Adjust Feature		X	X
Special Easton Tubing		X	-
Pipe	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Note			

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Pedal Specifications

Model No.	PD-7800	PD-6610	PD-R600	PD-R540	PD-A515	PD-M959	PD-M647	PD-MX30	PD-M545	PD-M540
Type	Road	Road	Road	Road	Sport	Off-Road	Off-Road/BMX	Off-Road/BMX	Off-Road	Off-Road
SPD	-	-	-	-	Single Sided	Dual Sided	Dual Sided	Non-SPD	Dual Sided	Dual Sided
SPD-SL	Single Sided	Single Sided	Single Sided	Single Sided	-	-	-	-	-	-
Cartridge Axle	-	X	X	X	X	X	X	X	X	X
Sealed Mechanism	X	X	X	X	X	X	X	X	X	X
Cleat Retention Adjuster	X	X	X	X	X	X	X	-	X	X
Pop-up / Caged	-	-	-	-	-	-	X	-	X	-
Cleat included	SM-SH11	SM-SH11	SM-SH11	SM-SH11	SM-SH51	SM-SH51	SM-SH51	-	SM-SH51	SM-SH51
Optional Cleat	SM-SH10	SM-SH10	SM-SH10	SM-SH10	SM-SH52 SM-SH55 SM-SH56	SM-SH56	SM-SH56	-	SM-SH52 SM-SH55 SM-SH56	SM-SH56
Reflector	SM-PD58	SM-PD58	SM-PD58	SM-PD58	SM-PD53	SM-PD22	SM-PD60	Y41B98010	SM-PD40	SM-PD22
Pedal Body	Material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Painted	Painted	Centrifugal Barrel	Painted	Painted	Painted	Painted	Painted	Anodized
Cage	Material	-	-	-	-	-	-	Resin	-	Aluminum
Note										

Pedal Specifications

Model No.	PD-M424	PD-M520	PD-M505	PD-M324
Type	Off-Road	Off-Road	Off-Road	Multi-purpose
SPD	Dual Sided	Dual Sided	Dual Sided	Single Sided
SPD-SL	-	-	-	-
Cartridge Axle	X	X	-	-
Sealed Mechanism	X	X	X	X
Cleat Retention Adjuster	X	X	X	X
Pop-up / Caged	X	-	-	-
Cleat included	SM-SH51	SM-SH51	SM-SH51	SM-SH55
Optional Cleat	SM-SH52 SM-SH55 SM-SH56	SM-SH56	SM-SH52 SM-SH55 SM-SH56	SM-SH51 SM-SH52 SM-SH56
Reflector	SM-PD40	SM-PD22	SM-PD22	Y41B98010
Pedal Body	Material	Aluminum	Aluminum	Aluminum
	Finish	Barrel	Barrel (silver) / Painted (black)	Barrel / Painted
Cage	Material	Resin	-	Steel
Note				

Wheel Specifications (MTB)

Model No.		WH-M965-disc (front)	WH-M965-disc (rear)	WH-M765-disc (front)	WH-M765-disc (rear)
Freehub Body	Speeds	-	9	-	9
	11T Compatible	-	X	-	X
	Material	-	Titanium	-	Steel
O.L.D.		100mm	135mm	100mm	135mm
Axle	QR	X	X	X	X
	QR Skewer Length	133mm	168mm	133mm	168mm
	Length	108mm	146mm	108mm	146mm
	Material	Titanium	Titanium	Steel	Steel
Seal		Contact	Contact	Contact	Contact
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
QR Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
Lock Ring Type Rotor Mount		X	X	X	X
Rim	Tubeless	559 X 19 (26")	559 X 19 (26")	559 X 19 (26")	559 X 19 (26")
	Clincher	-	-	-	-
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
	Height	20.5mm	20.5mm	20.5mm	20.5mm
	Width	23.3mm	23.3mm	23.3mm	23.3mm
Spokes	No. of Spokes	24	24	24	24
	Length	272mm	252 / 272mm	272mm	252 / 272mm
	Bladed	-	-	-	-
	Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Nipple	Size	4.3mm (#11)	4.3mm (#11)	4.3mm (#11)	4.3mm (#11)
	Thread	BC 2 (#14)	BC 2 (#14)	BC 2 (#14)	BC 2 (#14)
	material	Aluminum	Aluminum	Aluminum	Aluminum
Spoke Protector (Option)		-	CP-WH10/WH11	-	CP-WH10/WH11
Reflector (Option)		CAT EYE : RR-550-WUW/W SMN 03 (CPSC/JIS/BS), RR-550-WUA/A SMN03 (AS), RR-317-WUA/4K SMN03 (DIN)			
Weight *	Tubeless	783g	929g	820g	1001g
	Clincher	-	-	-	-
Note		Recommended Tires 26 X 1.50 - 2.25 * Weight does not include quick release or valve stem.			

Wheel Specifications (MTB)

Model No.		WH-M540 (front)	WH-M540 (rear)
Freehub Body	Speeds	-	9
	11T Compatible	-	X
	Material	-	Steel
O.L.D.		100mm	135mm
Axle	QR	X	X
	QR Skewer Length	133mm	168mm
	Length	108mm	146mm
	Material	Steel	Steel
Seal		Contact	Contact
Hub Shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
QR Lever	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
Lock Ring Type Rotor Mount		-	-
Rim	Tubeless	-	-
	Clincher	559 X 18 (26")	559 X 18 (26")
	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
	Height	28mm	28mm
	Width	24mm	24mm
Spokes	No. of Spokes	16	16
	Length	258mm	250/266mm
	Bladed	X	X
	Material	Steel	Steel
Nipple	Size	4.3mm (#11)	4.3mm (#11)
	Thread	BC 2.3 (#13)	BC 2(#14)/BC2.3(#13)
	material	Aluminum	Aluminum
Spoke Protector (Option)		-	CP-WH10/11
Reflector (Option)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)	
Weight *	Tubeless	-	-
	Clincher	846g	1091g
Note		Recommended Tires 26 X 1.50 - 2.25 * Weight does not include quick release.	

Wheel Specifications (Road)

Model No.		WH-7800 (front)	WH-7800 (rear)	WH-R550 (front)	WH-R550 (rear)
Freehub Body	Speeds	-	10	-	8/9*
	11T Compatible	-	X	-	X
	Material	-	Aluminum	-	Steel
O.L.D.		100mm	130mm	100mm	130mm
Axle	QR Skewer Length	133mm	163mm	133mm	163mm
	Length	108mm	141mm	108mm	141mm
	Material	Aluminum	Aluminum	Steel	Steel
Seal		Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact	Labyrinth and Contact
Hub Shell	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
QR Lever	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Barrel	Barrel
Rim	Tubular	-	-	-	-
	Clincher	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)	622 X 15C (700C)
	Material	Aluminum	Aluminum	Aluminum	Aluminum
	Finish	Anodized	Anodized	Anodized	Anodized
	Height	24mm	24mm	24mm	24mm
	Width	20.8mm	20.8mm	20.8mm	20.8mm
Spokes	No. of Spokes	16	20	16	20
	Length	280mm	274/300 mm	282mm	274/298mm
	Shape	Bladed	Bladed	Bladed	Bladed
	Material	Stainless Steel	Stainless Steel	Steel	Steel
Nipple	Size	4.3mm (#11)	4.3mm (#11)	4.3mm (#11)	4.3mm (#11)
	Thread	BC 2 (#14)	BC 2 (#14)	BC 2 (#14)	BC 2 (#14)
	material	Aluminum	Aluminum	Aluminum	Aluminum
Spoke Protector (Option)		-	CP-WH20	-	CP-WH20
Reflector (Option)		CAT EYE : RR-550-WUW SW (CPSC/JIS/BS), RR-550-WUA SW (AS), RR-317-WUA SW (DIN)			
Weight **	Tubular	-	-	-	-
	Clincher	725g	862g	793g	1052g
Note	-		For 10-speed only	-	*Can be used for 10-speed with an additional spacer.
	Recommended Tires 19-28mm (Clincher)			Recommended Tires 19-28mm (Clincher)	
	** Weight does not include quick release .			** Weight does not include quick release .	

Wheel Specifications (Road)

Model No.		WH-R500 (front)	WH-R500 (rear)
Freehub Body	Speeds	-	8/9*
	11T Compatible	-	X
	Material	-	Steel
O.L.D.		100mm	130mm
Axle	QR Skewer Length	133mm	163mm
	Length	108mm	141mm
	Material	Steel	Steel
Seal		Labyrinth and Contact	Labyrinth and Contact
Hub Shell	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
QR Lever	Material	Aluminum	Aluminum
	Finish	Barrel	Barrel
Rim	Tubular	-	-
	Clincher	622 X 15C (700C)	622 X 15C (700C)
	Material	Aluminum	Aluminum
	Finish	Anodized	Anodized
	Height	24mm	24mm
	Width	20.8mm	20.8mm
Spokes	No. of Spokes	20	24
	Length	281mm	286/288mm
	Shape	Round	Round
	Material	Stainless Steel	Stainless Steel
Nipple	Size	3.4mm (#14)	3.4mm (#14)
	Thread	BC 2 (#14)	BC 2 (#14)
	material	Brass	Brass
Spoke Protector (Option)		-	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)
Weight **	Tubular	-	-
	Clincher	812g	1072g
Note		-	*Can be used for 10-speed with an additional spacer.
		Recommended Tires 19-28mm (Clincher)	
		** Weight does not include quick release .	

Cycle Computer (Head Display unit) Specifications

Head Display unit Model No.	SC-6502
Rear Speed	7-10
Front Speed	Single/Double/Triple
4 different wheel size programs	X
Wheel size range	1300mm-2400mm
ODO Meter Reset	X
Auto Start & Auto Stop	X
Current Speed	X
Clock	X
Trip Time	X
Trip Distance	X
ODO Meter	X
Stop Watch	X
Stop Watch-Trip Distance	X
Stop Watch-Average Speed	X
Stop Watch-Maximum Speed	X
Cadence available	X
Main Display Cadence	X
Maximum Speed	X
Average Speed	X
Lap Counter	X
Gear Teeth Number (Digital) available	X
Gear Indicator (Bar) available	X
Pace Arrow	X
Low Battery Display	X
Note	

Cycle Computer (Head Display unit) Specifications

Head Display unit Model No.	SC-C050	SC-C051	SC-C052	SC-M300	SC-TX50
7 different wheel size programs (20"-22"-24"-26"-27"-28"-700C)	X	X	-	X	X
ODO Meter Reset	-	X	-	X	X
Front single gear available	-	-	-	-	-
Auto Start & Auto Stop	X	X	X	X	X
Water Resistant (1bar)	X	X	X	X	X
Current Speed	X	-	-	X	X
Clock	-	-	X	X	X
Trip Time	-	-	-	-	-
Trip Distance	-	X	-	X	X
ODO Meter	-	X	-	X	X
Stop Watch	-	-	X	-	-
Back Light (EL)	-	-	-	X	X
Stop Watch-Trip Distance	-	-	-	-	-
Stop Watch-Average Speed	-	-	-	-	-
Stop Watch-Maximum Speed	-	-	-	-	-
Cadence available	-	-	-	-	-
Main Display Cadence	-	-	-	-	-
Maximum Speed	-	-	-	-	-
Average Speed	-	-	-	X	X
Lap Counter	-	-	-	-	-
Gear Number (Digital) available	-	-	-	-	-
Gear Teeth Number (Digital) available	-	-	-	-	-
Gear Ratio available	-	-	-	-	-
Gear Indicator (Bar) available	-	-	-	-	-
Pace Arrow	-	-	-	-	-
Low Battery Display	-	-	-	-	-
Note				*must be used with Hub Dynamo	*must be used with Hub Dynamo

Cycle Computer (Head Display unit) Specifications

Series		NEXAVE	Nexus
Model No.		SC-C810	SC-8S40
Wheel size range	24"-26-700C	X	X
Front single gear available		-	X
Current Speed		X	X
Clock		X	X
Trip Time		-	-
Trip Distance		X	X
Trip Meter Reset		X	X
ODO Meter		X	X
ODO Meter Reset		X	X
Maximum Speed		-	-
Average Speed		-	-
Gear Position display		X	X
Gear shifting mode Select Switch		by SW-C810	by SW-8S40
RD(SG)-auto and manual Display		X	X
Low Battery Display		X	X
Suspension mode Select Switch		by SW-C810	by SW-8S40
Suspension mode Display		X	X
Suspension hard and soft Display		X	X
Display panel detachable		X	X
Back Light		X	X
Beep (on and off switch)		by SW-C810	by SW-8S40
Note			

Cycle Computer (Harness kit) Specifications

Harness Kit Model No.	SM-SC70	SM-6501-A	SM-6501-MD	SM-6501-M	SM-6500-RS
Compatible Head Display unit	SC-6502	SC-6502/6501	SC-6502/6501	SC-6502/6501	SC-6502/6501
Compatible Shift Lever	ST-7800 ST-6600 ST-6603	ST-7703 ST-7700-C ST-6510 ST-5510 ST-4400 ST-3300 ST-3304 ST-R600 ST-R500	ST-M510 SL-M510	ST-M952 ST-M750 ST-M570 SL-M952 SL-M750 SL-M570 SL-R660 SL-R440	ST-7703 ST-7700-C ST-6510 ST-5510 ST-4400 ST-3300 ST-3304 ST-R600 ST-R500
Cordless Speed Sensor	X	X	X	X	-
Connector Joint	-	-	X	X	-
Mode & Start/stop switch	Right & Left	Right & Left	Right & Left	Right	Right & Left
Hands-on-levers Control Capability	X	X	X	X	X
Cadence	X	X	X	X	X
Main Display Cadence	X	X	X	X	X
Gear Teeth Number (Digital)	SC-6502	SC-6501/6502	SC-6501/6502	SC-6501/6502	SC-6501/6502
Gear Indicator (Bar)	X	X	X	X	X
Note			Fits on 9 speed shifters mentioned above.	Fits on 9 speed shifters mentioned above.	

Adapter model no.		SM-C050SWB	SM-C050WCA1	SM-C050WCA2
Clamp band for switch of SC-C052	Clamp band diameter	22.2mm	-	-
Sensor code adapter for front fork	Front fork diameter	-	18.0-44mm	-
	Number of installation cords		2	-
Sensor code adapter for brake cable	Number of installation cords	-	-	2

CI-Deck Specifications

Series	Tourney	Tourney	Tourney	Tourney	C-Series	Tourney	C-Series	C-Series
Model No.	ID-TX50-6R	ID-TX50-7R	ID-TX50-LN	ID-TX50-L	ID-TX50-LC	SM-TX50	ID-C050-6R (L)	ID-C050-6R (R)
Compatible Shift Lever	SL-RS31/41	SB-C055A SL-RS31/41/41A ST-EF29	SB-C055A SL-RS31/41/41A ST-EF29	SB-C055A SL-RS31/41/41A ST-EF29	SL-RS31	-	SL-RS31/41	SL-RS31/41
Front	-	-	Friction	3 speed	-	-	-	-
Rear	6 speed SIS	7 speed SIS	-	-	-	-	6 speed SIS	6 speed SIS
SL Compatible RD Type	Top normal	Top normal	-	-	-	-	Top normal /Rapid Rise	Top normal /Rapid Rise
CID cable	Stainless	Stainless	Stainless	Stainless	-	-	Stainless	Stainless
CID cable type	TX50	TX50	TX50	TX50	-	-	C050	C050
CID Cable Adjust	X	X	X	X	-	-	X	X
Optical gear display	Front	-	Friction	3 speed	-	-	-	-
	Rear	6 speed	7 speed	-	-	-	6 speed	6 speed
Stainless CID cable	X	X	X	X	-	-	X	X
Clamp Band Diameter	22.2mm	-	-	-	-	-	-	-
	25.0mm	-	-	-	-	-	-	-
	22.2/25.0mm	-	-	-	-	X	X	X
C.I.D Upper Cover	Material	Resin	Resin	Resin	Resin	Resin	-	Resin
	Color	Silver	Silver	Silver	Silver	Silver	-	Black
C.I.D Body	Material	Resin	Resin	Resin	Resin	Resin	-	Resin
	Color	Black	Black	Black	Black	Black	-	Black
Clamp Band	Material	Resin	Resin	Resin	Resin	Resin	Resin	Resin
	Color	Black	Black	Black	Black	Black	-	Black
Note	Use with SM-TX50	Use with SM-TX50	Use with SM-TX50	Use with SM-TX50	Use with SM-TX50. No gear position & display for front single crankset bicycle.	Bracket for ID-TX50		

CI-Deck Specifications

Series	C-Series	C-Series	C-Series	C-Series	C-Series	C-Series	C-Series	C-Series
Model No.	ID-C050-7R (L)	ID-C050-7R (R)	ID-C050-7R (BL)	ID-C050-7R (YL)	ID-C050-L (L)	ID-C050-L (R)	ID-C050-L (BL)	ID-C050-L (YL)
Compatible Shift Lever	SB-C055A SL-RS31/41/41A ST-EF29	SB-C055A SL-RS31/41/41A ST-EF29	SB-C055A SL-RS31/41/41A ST-EF29	SB-C055A SL-RS31/41/41A ST-EF29	SL-RS41/41A/31 ST-EF29/35	SL-RS41/41A/31 ST-EF29/35	SL-RS41/41A/31 ST-EF29/35	SL-RS41/41A/31 ST-EF29/35
Front	-	-	-	-	3 speed SIS	3 speed SIS	3 speed SIS	3 speed SIS
Rear	7 speed SIS	7 speed SIS	7 speed SIS	7 speed SIS	-	-	-	-
SL Compatible RD Type	Top normal /Rapid Rise	Top normal /Rapid Rise	Top normal /Rapid Rise	Top normal /Rapid Rise	-	-	-	-
CID cable	Stainless	Stainless	Stainless	Stainless	Stainless	Stainless	Stainless	Stainless
CID cable type	C050	C050	C050	C050	C050	C050	C050	C050
CID Cable Adjust	X	X	X	X	X	X	X	X
Optical gear display	Front	-	-	-	3 speed	3 speed	3 speed	3 speed
	Rear	7 speed	7 speed	7 speed	7 speed	-	-	-
Stainless CID cable	X	X	X	X	X	X	X	X
Clamp Band Diameter	22.2mm	-	-	-	-	-	-	-
	25.0mm	-	-	-	-	-	-	-
	22.2/25.0mm	X	X	X	X	X	X	X
C.I.D Upper Cover	Material	Resin	Resin	Resin	Resin	Resin	Resin	Resin
	Color	Black	Red	Blue	Yellow	Black	Red	Blue
C.I.D Body	Material	Resin	Resin	Resin	Resin	Resin	Resin	Resin
	Color	Black	Black	Black	Black	Black	Black	Black
Clamp Band	Material	Resin	Resin	Resin	Resin	Resin	Resin	Resin
	Color	Black	Black	Black	Black	Black	Black	Black
Note								

CI-Deck Specifications

Series	C-Series	C-Series	C-Series	C-Series	C-Series	C-Series	C-Series
Model No.	ID-C050-L (GS)	ID-C050-LN (L)	ID-C050-LN (R)	ID-C050-LC (L)	ID-C050-LC(R)	ID-C050-LC (BL)	ID-C050-LC(YL)
Compatible Shift Lever	SL-RS41/41A/31 ST-EF29/35	SL-RS31	SL-RS31	-	-	-	-
Front	3 speed SIS	Friction	Friction	-	-	-	-
Rear	-	-	-	-	-	-	-
SL Compatible RD Type	-	-	-	-	-	-	-
CID cable	Stainless	Stainless	Stainless	-	-	-	-
CID cable type	C050	C050	C050	-	-	-	-
CID Cable Adjust	X	X	X	-	-	-	-
Optical gear display	Front	3 speed	3 speed	3 speed	-	-	-
	Rear	-	-	-	-	-	-
Stainless CID cable	X	X	X	-	-	-	-
Clamp Band Diameter	22.2mm	-	-	-	-	-	-
	25.0mm	-	-	-	-	-	-
	22.2/25.0mm	X	X	X	X	X	X
C.I.D Upper Cover	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Color	Gray	Black	Red	Black	Red	Blue
C.I.D Body	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Color	Silver	Black	Black	Black	Black	Black
Clamp Band	Material	Resin	Resin	Resin	Resin	Resin	Resin
	Color	Black	Black	Black	Black	Black	Black
Note				No gear position & display for front single crankset bicycle	No gear position & display for front single crankset bicycle	No gear position & display for front single crankset bicycle	No gear position & display for front single crankset bicycle

Lamp-Battery case Specifications

Lamp		LP-R600	LP-NX21	LP-C050	LP-C050-HSW
Auto Light		-	X	-	-
Bulb Type		12V-5.0W Flange type(Halogen)	6V-2.4W Screw type (Xenon)	6V-2.4W Screw type (Xenon) Flange type(Halogen)	6V-2.4W Screw type (Xenon) Flange type(Halogen)
LED		Super Bright White LED	-	-	-
Electric Power Input		+ and -	+ (frame earth)	+ and -	+ and -
Electric Power Output		-	-	+ and -	+ and -
Lamp body	Material	Resin	Resin	Resin	Resin
	Finish	Painted	Painted	-	-
Attachment Position		Above handlebar	Front fork Light stay	Handle bar	Handle bar
Clamp Band Diameter		31.8/25.8/22.2mm	-	22.2/25.0mm	22.2/25.0mm
Switch	Auto	-	X	-	-
	Manual	X	-	X	X
Note		For 3.0W Dynamo.	Only for Japanese market /With connection wire cable	J-Type:Xenon Bulb E-Type:Halogen Bulb (Differnet Lens) Body Switch	Switch operation is possible, holding grip

Lamp-Battery case Specifications

Lamp		LP-C050-AT	LP-C050-ATJ	LP-M300	LP-M300-J
Auto Light		X	X	X	X
Bulb Type		6V-2.4W Screw type (Xenon)	6V-2.4W Screw type (Xenon)	6V-2.4W Screw type (Xenon)	6V-2.4W Screw type (Xenon)
LED		-	-	Super Bright White LED	Super Bright White LED
Electric Power Input		+ and -	+ and -	+ and -	+ and -
Electric Power Output		-	-	-	-
Lamp body	Material	Resin	Resin	Resin	Resin
	Finish	-	-	-	-
Attachment Position		Handle bar	Front fork Light stay	Handle bar	Under front basket
Clamp Band Diameter		22.2/25.0mm	-	22.2/25.0mm	-
Switch	Auto	X	X	X	X
	Manual	-	-	-	-
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	Only for Japanese market /With connection wire cable

Lamp-Battery case Specifications

Battery Case	SM-C050BT
Battery Type	LR6X4
Note	

Connection Wire Cable	SM-C050DC
Terminal	+ and -
Diameter	4mm
Note	

Adapter model no.		SM-C050WCA1	SM-C050WCA2
Conection wire cable adapter for front fork	Front fork diameter	18.0-44mm	-
	Number of installation cords	2	-
Conection wire cable adapter for brake cable	Number of installation cords	-	2

Hub-Dynamo Specifications

Model NO.		DH-3D70	DH-3N70	DH-2N70	HB-NX70
Type		For disc brake*	Regular	Regular	For disc brake
Voltage		6V	6V	6V	6V
Output		3.0W	3.0W	2.4W	3.0W
QR type		X	X	X	X
Nut type		-	-	-	-
Over Locknut Dim.		100mm	100mm	100mm	100mm
Flange Distance		52.3	60.0	60.0	51.9
Offset		3.85	0	0	2.8
Hole Reference (PCD)		74mm	74mm	74mm	80mm
Axle Length		108mm	108mm	108mm	108mm
Spoke Size		#14	#14	#14	#14
Seal		Double Contact	Double Contact	Double Contact	Single Contact
Spoke Hole	28H	-	-	-	-
	32H	X	X	X	-
	36H	X	X	X	X
Wheel size	26-28inch	X	X	-	-
	16-28inch	-	-	-	X
	20-24inch	-	-	-	-
	24-28inch	-	-	X	-
Roller Brake Modulator Glade	More than 26 Inches	High	-	-	-
		Standard	-	-	-
	20-24 Inches	-	-	-	-
Electric power output connector	frame earth type(1 terminal)	-	-	-	-
	cable earth type(2 terminal)	X	X	X	X
	For ECOVISION type(2 terminal)	-	-	-	-
Finish		Anodized	Anodized	Anodized	Painted
Note		*Lock Ring Type Rotor Mount			

Hub-Dynamo Specifications

Model NO.		DH-2R40	HB-NX60	HB-NX60-JC	DH-3RB1
Type		For hub roller brake	For hub roller brake	For hub roller brake	For hub roller brake
Voltage		6V	6V	6V	6V
Output		2.4W	2.4W	2.4W	3.0W
QR type		-	-	-	X
Nut type		X	X	X	-
Over Locknut Dim.		100mm	100mm	100mm	100mm
Flange Distance		53.3	53.3	53.3	53.3
Offset		2.35	2.35	2.35	2.35
Hole Reference (PCD)		80mm	80mm	80mm	80mm
Axle Length		140mm	140mm/155mm	140mm/155mm	108mm
Spoke Size		#14	#14	#14	#14
Seal		Single Contact	Single Contact	Single Contact	Single Contact
Spoke Hole	28H	-	-	-	-
	32H	-	-	-	-
	36H	X	X	X	X
Wheel size	26-28inch	X	X	-	X
	16-28inch	-	-	-	-
	20-24inch	-	-	X	-
	24-28inch	-	-	-	-
Roller Brake Modulator Glade	More than 26 Inches	High	X	-	X
		Standard	-	X	-
	20-24 Inches	-	-	X	-
Electric power output connector	frame earth type(1 terminal)	-	-	-	-
	cable earth type(2 terminal)	X	X	X	-
	For ECOVISION type(2 terminal)	-	-	-	X
Finish		Painted	Painted	Painted	Painted
Note					for only ECOVISION AI-8S40

Hub-Dynamo Specifications

Model NO.		DH-3R40		
Type		For hub roller brake		
Voltage		6V		
Output		3.0W		
QR type		X	-	
Nut type		-	X	
Over Locknut Dim.		100mm	100mm	
Flange Distance		53.3	53.3	
Offset		2.35	2.35	
Hole Reference (PCD)		80mm	80mm	
Axle Length		108mm	140mm	
Spoke Size		#14	#14	
Seal		Single Contact	Single Contact	
Spoke Hole	28H	-	-	
	32H	-	-	
	36H	X	X	
Wheel size	26-28inch	X	X	
	16-28inch	-	-	
	20-24inch	-	-	
	24-28inch	-	-	
Roller Brake Modulator Glade	More than 26 Inches	High	X	X
		Standard	-	-
	20-24 Inches	-	-	
Electric power output connector	frame earth type(1 terminal)	-	-	
	cable earth type(2 terminal)	X	X	
	For ECOVISION type(2 terminal)	-	-	
Finish		Painted	Painted	
Note				

Hub-Dynamo Specifications

Model NO.		HB-NX50	DH-3NB1	DH-3NAI	
Type		For hub roller brake		Regular	Regular
Voltage		6V		6V	6V
Output		3.0W		3.0 W	3.0 W
QR type		X	-	X	-
Nut type		-	X	-	X
Over Locknut Dim.		100mm	100mm	100mm	100mm
Flange Distance		53.3	53.3	60	60.0
Offset		2.35	2.35	0	0
Hole Reference (PCD)		80mm	80mm	80mm	80mm
Axle Length		108mm	140mm	108mm	140mm
Spoke Size		#14	#14	#14	#14
Seal		Single Contact	Single Contact	Single Contact	Single Contact
Spoke Hole	28H	-	-	-	-
	32H	-	-	X	-
	36H	X	X	X	X
Wheel size	26-28inch	X	X	X	X
	16-28inch	-	-	-	-
	20-24inch	-	-	-	-
	24-28inch	-	-	-	-
Roller Brake Modulator Glade	More than 26 Inches	High	-	-	-
		Standard	X	X	-
	20-24 Inches	-	-	-	-
Electric power output connector	frame earth type(1 terminal)	-	-	-	-
	cable earth type(2 terminal)	X	X	-	-
	For ECOVISION type(2 terminal)	-	-	X	X
Finish		Painted	Painted	Painted	Painted
Note				for only ECOVISION AI-8S40	for only ECOVISION AI-3S30

Hub-Dynamo Specifications

Model NO.		DH-3N30	HB-NX32		DH-2N30-E
Type		Regular	Regular	Regular	Regular
Voltage		6V	6V	6V	6V
Output		3.0W	3.0W	3.0W	2.4W
QR type		-	X	-	-
Nut type		X	-	X	X
Over Locknut Dim.		100mm	100mm	100mm	100mm
Flange Distance		60mm	60.0	60.0	60mm
Offset		0	0	0	0
Hole Reference (PCD)		75mm	80mm	80mm	75mm
Axle Length		140mm	108mm	140mm	140mm
Spoke Size		#14	#14	#14	#14
Seal		Single Contact	Single Contact	Single Contact	Single Contact
Spoke Hole	28H	-	-	-	-
	32H	-	X	-	-
	36H	X	X	X	X
Wheel size	26-28inch	X	-	-	X
	16-28inch	-	X	X	-
	20-24inch	-	-	-	-
	24-28inch	-	-	-	-
Roller Brake Modulator Glade	More than 26 Inches	High	-	-	-
		Standard	-	-	-
	20-24 Inches	-	-	-	-
Electric power output connector	frame earth type(1 terminal)	-	-	-	-
	cable earth type(2 terminal)	X	X	X	X
	For ECOVISION type(2 terminal)	-	-	-	-
Finish		Painted	Painted	Painted	Painted
Note					

Hub-Dynamo Specifications

Model NO.		HB-NX22			HB-NX22-JC
Type		Regular	Regular	Regular	Regular
Voltage		6V	6V	6V	6V
Output		2.4W	2.4W	2.4W	2.4W
QR type		X	-	-	-
Nut type		-	X	X	X
Over Locknut Dim.		100mm	100mm	93mm	93mm
Flange Distance		60.0	60.0	60.0	60.0
Offset		0	0	0	0
Hole Reference (PCD)		80mm	80mm	80mm	80mm
Axle Length		108mm	140mm	150mm	150mm
Spoke Size		#14	#14	#14	#14
Seal		Single Contact	Single Contact	Single Contact	Single Contact
Spoke Hole	28H	-	X	-	-
	32H	X	-	-	-
	36H	X	X	X	X
Wheel size	26-28inch	-	-	-	-
	16-28inch	-	-	-	-
	20-24inch	-	-	-	X
	24-28inch	X	X	X	-
Roller Brake Modulator Glade	More than 26 Inches	High	-	-	-
		Standard	-	-	-
	20-24 Inches	-	-	-	-
Electric power output connector	frame earth type(1 terminal)	-	-	X	X
	cable earth type(2 terminal)	X	X	-	-
	For ECOVISION type(2 terminal)	-	-	-	-
Finish		Painted	Painted	Painted	Painted
Note				JPN only	JPN only

Hub-Dynamo Specifications

Model NO.		HB-C050-DR	HB-C050-DRC	HB-C051-DR	HB-C051-DRC	
Type		For hub roller brake	For hub roller brake	For hub roller brake	For hub roller brake	
Voltage		6V	6V	6V	6V	
Output		2.4W	2.4W	3W	3W	
QR type		-	-	-	-	
Nut type		X	X	X	X	
Over Locknut Dim.		100mm	100mm	100mm	100mm	
Flange Distance		53.3	53.3	53.3	53.3	
Offset		2.35	2.35	2.35	2.35	
Hole Reference (PCD)		80mm	80mm	80mm	80mm	
Axle Length		140mm/M9	140mm/M9	140mm/M9	140mm/M9	
Spoke Size		#14	#14	#14	#14	
Seal		Single Contact	Single Contact	Single Contact	Single Contact	
Spoke Hole	28H	-	-	-	-	
	32H	-	-	-	-	
	36H	X	X	X	X	
Wheel size	26-28inch	X	-	X	-	
	16-28inch	-	-	-	-	
	20-24inch	-	X	-	X	
	24-28inch	-	-	-	-	
Roller Brake Modulator Glade	More than 26 Inches	High	X	-	X	-
		Standard	-	-	-	-
	20-24 Inches	-	X	-	X	
Electric power output connector	frame earth type(1 terminal)		-	-	-	-
	cable earth type(2 terminal)		X	X	X	X
	For ECOVISION type(2 terminal)		-	-	-	-
Finish		Painted	Painted	Painted	Painted	
Note						

Hub-Dynamo Specifications

Model NO.		HB-C050-D	HB-C051-D
Type		Regular	Regular
Voltage		6V	6V
Output		2.4W	3W
QR type		-	-
Nut type		X	X
Over Locknut Dim.		100mm	100mm
Flange Distance		60.0	60.0
Offset		0	0
Hole Reference (PCD)		80mm	80mm
Axle Length		140mm/M9	140mm/M9
Spoke Size		#14	#14
Seal		Single Contact	Single Contact
Spoke Hole	28H	-	-
	32H	-	-
	36H	X	X
Wheel size	26-28inch	-	-
	16-28inch	-	X
	20-24inch	-	-
	24-28inch	X	-
Roller Brake Modulator Glade	More than 26 Inches	High	-
		Standard	-
	20-24 Inches	-	-
Electric power output connector	frame earth type(1 terminal)	-	-
	cable earth type(2 terminal)	X	X
	For ECOVISION type(2 terminal)	-	-
Finish		Painted	Painted
Note			

Capreo Specifications

RD

Model No.		RD-F700
Pulley Cage		SS / SGS
Speeds		9
Rapid-Rise Rear Derailleur		-
Total Capacity		17T
Max. Rear Sprocket		26T
Min. Rear Sprocket		9T
Riveted Adapter Available	Road type	-
	Bmx-Track type	-
Direct Attachment		X
Detachable Bracket		-
Wheel-Type Cable Guide		-
Fluoric Coated Link Bushings		2
Parallelogram Spring Adjuster		-
Sealed Bearing Guide Pulley		-
Sealed Bearing Tension Pulley		-
11T Pulley		X
Pulley Bolt Holder		-
Bracket Body	Material	Aluminum
	Finish	Silver Painted
Plate Body	Material	Aluminum
	Finish	Silver Painted
Outer Link	Material	Aluminum
	Finish	Silver Painted
Inner Link	Material	Steel
	Finish	Zinc Plated
Outer Plate	Material	Steel
	Finish	Silver Painted
Inner Plate	Material	Steel
	Finish	Zinc Plated
Removable Rubber Bumper		-
NOTE		

CS

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
Spider Arm		-
Lock Ring		Steel
Steel Cog		X
Ti Cog		-
Finish		Sn-Co Plating
Note		Only for FH-F700

BL

Model No.		BL-F700
Brake type		V-brake
Lever size		2 finger
Brake cable type		T-type
Power adjuster		-
Servo-Wave Action		-
Reach adjust		X
Cable adjust		X
Brake lever	Material	Aluminum
	Finish	Barrel
Brake bracket	Material	Aluminum
	Finish	Painted
Note		

BR

Model No.		BR-F700
Brake type		V-brake
Link Wire		-
Reinforced Link		-
Parallel link		-
Power Modulator		X (Option)
Linear Spring		X
Threaded BR Shoe Post		X
Brake shoe type	Standard	R55C for F700
	Optional choice	-
		-
Arch size		-
Fixing bolt length		16/25mm
Sleeve & Bushing type		X
Lead Pipe Angle		45/90/135
Canti lever /V-arm /Caliper	Material	Aluminum
	Finish	Painted
Cartridge Shoe Holder		X
Note		

SL

Model No.		SL-F700(R)
Lever type		Tap-Fire
Front		-
Rear		9 speed SIS
SL cable adjust		X
Optical gear display		Above handlebar
Multi-Bearing Construction		-
SL outer casing		SP40 sealed
Stainless SL cable		X
Flight Deck w/ Gear Sensor Compatible (Option)		-
W/ CI-DECK		-
SL Bracket	Material	Aluminum
	Finish	Painted
SL Compatible RD Type		-
Note		

Capreo Specifications

FC

Model No.		FC-F700
Rear Speeds		9
Chainring Combination		45T
Group		-
Spider or Gear Arm		5-arm
PCD (mm)		130mm
Crank Arm Length	160mm	-
	165mm	X
	167.5mm	-
	170mm	X
	172.5mm	-
175mm		-
Chain		Super narrow HG
Bottom Bracket		BB-UN40(-K) / UN25(-K)
Axle Length	Chain Line 46	MM110
	Chain Line 48.5	LL113
	Chain Line 50	YL117
	Chain Line 52.5+t	117.5
Fixing Nut Available		-
Optional Chain Guard		Standard / Silver
Hollowtech Crank Arm		-
Splined Crank (OCTALINK)		-
One-key Release		-
Chain Case Compatible Crank Arm		-
Crank Arm	Material	Aluminum
	Finish	Silver Painted
Spider Arm		-
Spider Arm Cover		-
Outer Ring	Material	Aluminum
	Finish	Anodized
Middle Ring		-
Inner Ring		-
Note		

HB

Model No.		HB-F700
Spoke Holes	24H	X
	28H	-
	32H	X
	36H	X
	40/48H	-
Hole PCD (mm)		38
O.L.D. (mm)		100
Flange Distance		71.6
Axle	QR	X
	QR Skewer Length	133mm
	Axle Length	108mm (M9)
	Material	Steel
	Nut	-
Axle Length		-
Seal		X
Stainless Steel Ball Bearings		-
Strong Axle		-
Hub Shell	Material	Aluminum
	Finish	Anodized
CBN (Cubic Boron Nitride)	Cone Races	-
	Cup Races	-
Quick Release Lever	Material	Aluminum
	Finish	Anodized
Radial Lacing		X
Note		

FH

Model No.		FH-F700
Spoke Holes	24H	X
	28H	-
	32H	X
	36H	X
	40/48H	-
Hole PCD (mm)		45
Freehub Body	Speeds	9
	11T compatible	9T
	Roller Clutch	-
	Material	Steel
O.L.D. (mm)	130	-
	135	X
	Others	-
Flange Distance		60.3
Dish		8.3
Axle	QR	X
	QR Skewer Length	168mm
	Length	146mm (M10)
	Nut	-
Seal	Length	-
	Material	Steel
Hub Shell	Hub	X
	Freewheel	-
Quick Release Lever	Material	Aluminum
	Finish	Anodized
CBN (Cubic Boron Nitride)	Cone Races	-
	Cup Races	-
Stainless Steel Ball Bearings		-
Thread for Drum Brake (BC1.37X24)		-
Note		Only for CS-HG70-S Only for 16-20 inch

Nexus Di2 (Cyber Nexus) Specifications

AI

Series	Nexus
Model NO.	AI-8S40
Capacitor for better shifting, suspension & lighting	X
Automatic light sensor	X
Shifting timing adjuster SW	X
Position to be fixed	Below down tube, near BB part
Way of fixing	M5 screw x 2
Speed signal input	DH-3NB1-QR DH-3RB1-QR
Power supply	DH-3NB1-QR DH-3RB1-QR

MU

Series	Nexus
Model No.	MU-8S40
Type	Same type of AUTO-D with Inter-4
Compatibl	SG-8R45/8C45

DH	<u>DH-3NB1/3RB1 <Refer to Page151></u>
EW	<u>EW-AA/AB/AC/DD <Refer to Page97></u>
FS	<u>FS-C810 <Refer to Page94></u>
SC	<u>SC-8S40 <Refer to Page141></u>
SG	<u>SG-8R45 <Refer to Page161></u>
SW	<u>SW-8S40 <Refer to Page96></u>

Inter-8 Specifications

Function Name		Inter-8				
Speed		8				8
Model NO.		SG-8R20	SG-8R25	SG-8R20-VS	SG-8R25-VS	SG-8C20
Silent Clutch		X				X
Gear Change Support Mechanism		X				X
Shifting Power Modulator		X				X
Driving Efficiency		Standard	HIGH	Standard	HIGH	Standard
w/ Left hand dust cap		- (HRB)	- (HRB)	X	X	-
Brake		Inter-M BR-IM41/50/70-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
Hub Shell Material		Aluminum				Aluminum
Finish		Painted				Painted
weight		1750g	1550g	1750g	1550g	1990g
Spoke Hole		36H				36H
Spoke Size		#13 / #14				#13 / #14
Flange Dist. (mm)		58.3				58.3
Spoke Hole P.C.D (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		1/2"x1/8" or 1/2"x3/32"				1/2"x1/8" or 1/2"x3/32"
Chain Recommend		CN-NX10				CN-NX10
Chain Line(mm) 16-23T		42.7/47.7				42.85/47.85
Dishing Distance (mm)		2.7				2.55
Shifting Lever/Al		SB-8S20/ST-8S20/SL-8S20				SB-8S20/ST-8S20/SL-8S20
Cassette Joint / Motor Unit		CJ-8S20/CJ-8S40				CJ-8S20/CJ-8S40
Note						

Inter-8 Specifications

Function Name	Inter-8		
Speed	8		8
Model NO.	SG-8R45	SG-8R45-VS	SG-8C45
Silent Clutch	X		X
Gear Change Support Mechanism	X		X
Shifting Power Modulator	X		X
Driving Efficiency	HIGH		HIGH
w/ Left hand dust cap	- (HRB)	X	-
Brake	Inter-M	V-Brake	Coaster
	BR-IM41/50/70-R		
Over Locknut Dim. / OLD (mm)	132.9		133.2
Axle Length(mm)	184.9		184.9
Gear Ratio	Total	307%	
	1	0.527	
	2	0.644	
	3	0.748	
	4	0.851	
	5	1	
	6	1.223	
	7	1.419	
	8	1.615	
Hub Shell Material	Aluminum		Aluminum
Finish	Painted		Painted
weight	1550g		1950g
Spoke Hole	36H		36H
Spoke Size	#13 / #14		#13 / #14
Flange Dist. (mm)	58.3		58.3
Spoke Hole P.C.D (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	1/2"x1/8" or 1/2"x3/32"		1/2"x1/8" or 1/2"x3/32"
Chain Recommend	CN-NX10		CN-NX10
Chain Line(mm) 16-23T	42.25		42.4
Dishing Distance (mm)	3.15		3
Shifting Lever/Al	Al-8S40		Al-8S40
Cassette Joint / Motor Unit	MU-8S40		MU-8S40
Note			

Inter-7 Specifications

Function Name		Inter-7			
Speed		7			
Model NO.		SG-7R46	SG-7C26	SG-7C18/16	
Silent Clutch		-			
Gear Change Support Mechanism		-			
Shifting Power Modulator		X			
Brake		Inter-M		Coaster	
		BR-IM41/50/70-R			
Over Locknut Dim. / OLD (mm)		130	130	127	127
Axle Length (mm)		182	201	175.5	175.5
Gear Ratio	Total	244%			
	1	0.632			
	2	0.741			
	3	0.843			
	4	0.989			
	5	1.145			
	6	1.335			
7	1.545				
Hub Shell Material		Aluminum	Aluminum	Steel	
Finish(Corrosion Resistant)		X			
Weight		1465g	1760g	1860g	
Spoke Hole		36H			
Spoke Size		#13 / #14			
Flange Dist. (mm)		54.6	54.6	56.2	
Spoke Hole P.C.D (mm)		87	87	83.5	
Flange Diameter (mm)		99.6	99.6	92.5	
Flange width (mm)		3.2	3.2	2.7	
Sprocket Teeth		16T, 17T, 18T, 19T, 20T, 21T, 22T, 23T			
Sprocket Thickness (mm)		2.3			
Chain		1/2"x1/8" or 1/2"x3/32"			
Chain Recommend		CN-NX10			
Chain Line(mm)	16T	45.3	46.5	46.5	
	18-23T	40.3 / 45.3	41.5/46.5	41.5/46.5	
Dishing Distance (mm)		3.85	2.6	4.6	
Shifting Lever		SB-7S45,SL-7S10,ST-7S20			
Cassette Joint		CJ-NX10 / CJ-NX40 / CJ-7S40			
Note					

Inter-3 Specifications

Function Name		Inter-3				
Speed		3				
Model NO.		SG-3R40	SG-3C41			
Silent Clutch		-				
Gear Change Support Mechanism		X				
Shifting Power Modulator		X				
Super Light Shifting		X				
Brake		Inter-M		Coaster		
		BR-IM41-R/ BR-IM31-R				
Over Locknut Dim. / OLD (mm)		120.4	126.8	120	127.4	
Axle Length (mm)		170.3	176.8	168	175	
Gear Ratio		Total	186%			
		1	0.733			
		2	1.000			
		3	1.360			
		4	-			
		5	-			
		6	-			
		7	-			
Hub Shell Material		Steel				
Finish(Corrosion Resistant)		X				
Weight		885g	1120g			
Spoke Hole		36H / 28H				
Spoke Size		#13 / #14				
Flange Dist. (mm)		53.5	53.5	57.5	57.5	
Spoke Hole P.C.D (mm)		74	74	59	59	
Flange Diameter (mm)		84	84	67.5	67.5	
Flange width (mm)		2.3				
Sprocket Teeth		15,16,18,19,20,21,22,23T				
Sprocket Thickness (mm)		2.3				
Chain		1/2"x1/8" or 1/2"x3/32"				
Chain Recommend		CN-NX10				
Chain Line(mm)		15T	42.2	40.5	43.7	42.2
		16T	-/44.7	-/43	-/46.2	-/44.7
		18-23T	39.7/44.7	38/43	41.2/46.2	39.7/44.7
Dishing Distance (mm)		0.8	2.5	1.2	2.7	
Shifting Lever		SB-3S30,SB-3S30J,SL-3S35,SL-3S95				
Cassette Joint		BELL CRANK 3/ BELL CRANK4				
Note						

AI Specifications

Function Name	AUTO-D		
Speed	3	3	8
Model NO.	AI-3S10	AI-3S30	AI-8S40
Information Display	-	-	SC-8S40
Display Type	-	-	LCD
Automatic Shifting	X	X	X
Number of Automatic mode	2	8	3(D/Ds/L) X 8
Auto Light Function	-	X	X
Beep Sound	X	X	X
Power Supply	Battery	DH-3NA1 (from hub dynamo)	DH-3NB1/ DH-3RB1
Speed Signal Input	Sensor & Magnet	DH-3NA1 (from hub dynamo)	DH-3NB1/ DH-3RB1
Main Unit Position	On the Chaincase	On the Chaincase	Below down tube by using 2 pcs of M5 screw
SG	SG-3R40 SG-3C40	SG-3R40 SG-3C40	SG-8R45
Note			

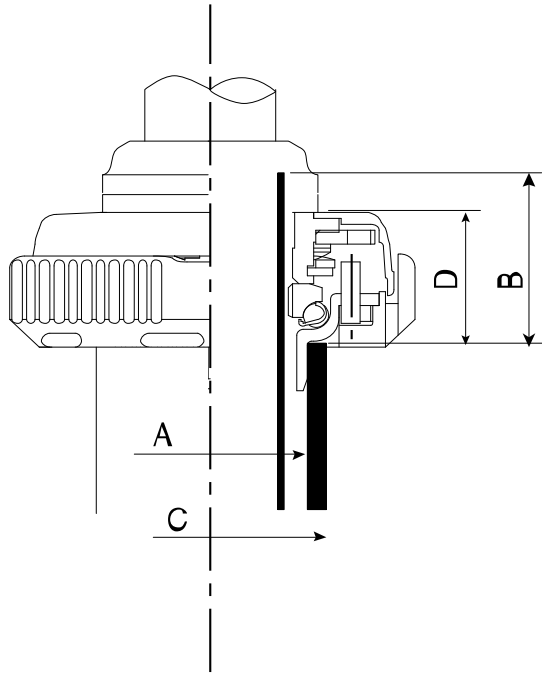
SB/SL/ST Specifications

Function Name	Inter-S						Inter-S			
	Speed	8	8	8	7			3		
Model NO.	SB-8S20	SL-8S20	ST-8S20	SB-7S45	SL-7S10	ST-7S20	SB-3S30	SB-3S30J	SL-3S35	SL-3S95
Shifter Type	Revo	Revo	Tap fire	Revo		Rapidfire	Revo		Piano touch	
Optical Gear Display	Dial	Dial	Meter	Dial			Dial			
Max Number of Shift	7	7	1	6		1	2		1	
Brake Lever Integrated	X	-	X	X	-		X		-	
Brake Lever Size	4Finger	-	3Finger	3Finger	-		3Finger	2.5Finger	-	
Left Hand Brake Lever	BL-IM60	-	BL-IM65	BL-IM45	-		BL-IM32	BL-IM32J	-	
Clamping Diameter	22.2mm	22.2mm	22.2mm	22.2mm			22.2mm			
Inner Cable Material	stainless	stainless	stainless	stainless			stainless			
SL Outer Cable Cap	Sealed	Sealed	Sealed	Sealed			Sealed			
Note										

Front Chainwheel Specifications

Function Name		Inter-C									
Model NO.		FC-NX80	FC-NX70	FC-NX60		FC-NX40		FC-NX30		FC-S100	
Chain Ring Teeth		46T	33T	33T	38T	33T	38T	33T	38T	33T	38T
Chain Line		43+t mm	45mm	44+t mm		45mm					
Chain Type		1/2"X3/8" or 1/2"X3/32"									
Crank Length		170mm						170 / 150mm			
BB	With chaincase stay	BB-TS30/50 MM110-K	BB-UN25 YL117	BB-TS30/50-K YL117	BB-UN25 YL117				AXLE LENGTH 122.5mm (Right Side Axle Length 27.5mm Left side Axle Length 27mm)		
	Without chaincase stay	BB-TS30/50 MM110									
Chain Ring	Material	Alumium	Steel								
	Finish	Anodized	Black								
Cover Ring Dia.		-	95mm	95mm	95mm	95mm	110mm	95mm	110mm	95mm	110mm
Crank Arm	Material	Alumium	Aluminum						Steel		
	Finish	Painted	Barrel + Clear Paint	Paint	Barrel + Clear Paint		Paint	Steel-PPcoated			
Pedalling Power Modulator		-	X	-		-					
Integrated Chain guard diameter		202mm	-								
Note		FC-NX80/70/60/40/30 /FC-S100 /BB-TS30/50 : Made in Italy									

Others. Specifications



Function Name	Nexus Headset
Model NO.	HP-NX10
A	$\phi 29.85 - 30.0\text{mm}$ or $\phi 30.01 - 30.2\text{mm}$
B	30.5 - 31.5mm
Front fork stem thread size	BC 1" X 24 T.P.I
C	$\phi 38\text{mm}$ (Max.)
D	21.7mm
Head Tube Material	Steel

Function Name	Nexus Chain
Model NO.	CN-NX10
Size	1/2x3/8"
Function	Anti corrosion