



2006-2007  
Product Catalogue



[www.sunrace.com](http://www.sunrace.com)

# Introduction

Sun Race Sturmey-Archer, manufacturer of both derailleurs and internal gear hubs, is working even harder in 2006 to give you the best choice in cycling drivetrain systems. With even more emphasis on system engineering, our new groups offer greater performance at an exceptional value.





## Trigger Shifters



**DLM95 - 27 speed**

**DLM65 - 24 speed**

New family of trigger shifters featuring patented gear indicator display built in the clamp.

- Performance oriented triggers that are easy to use.
- Fast gear selection - 1 stroke can shift 7 gears in 9spd or 6 gears in 8speed.
- Extensive use of aluminum on shifter body and lever.
- Easy cable change.
- Available in black or silver.



**DLM93 - 27 speed**

**DLM53 - 24 & 21 speed**

**DLM33 - 21 speed**

New family of trigger shifters featuring gear indicator platform positioned on the top of the handlebar.

- Performance oriented triggers that are easy to use.
- Fast gear selection - 1 stroke can shift 7 gears in 9 speed or 6 gears in 8 and 7speed.
- Extensive use of aluminum on shifter body and lever.
- Available in black or silver.

# 2006 New Products

## Front Derailleurs

**FDM91 - 44T Alloy Clamp**

**FDM9A - 48T Alloy Clamp**

**FDM64 - 42T Alloy Clamp**

**FDM54 - 42T Steel / Alloy Clamp**

**FDM34 - 48T Steel / Alloy Clamp**

New family of dual-pull front derailleurs.

- Dual Pull.
- Multi-size clamp.
- Modern design.



## Cassettes

**CSMZ6 - 9 speed**

**CSMX6 - 9 speed**

**CSM96 - 9 speed**

**CSM66 - 8 speed**

New family of 9 and 8 speed cassettes with improved shifting performance.



## Chains

**CNM99 - 9 speed Hollow Pin**

**CNM94 - 9 speed**

**CNM89 - 8 speed Hollow Pin**

**CNM84 - 8 speed**

**CNM54 - 7 / 6 / 5 speed**

New family of 9, 8, and 7/6/5 speed chains with improved shifting performance.



## Hubs

**HBMD4R - Down Hill Freehub 150mm OLD**

**HBMD5R - Down Hill Freehub 150mm OLD**

**HBMD6R - Down Hill Freehub 135mm OLD**

**HBMZ6 - Competition XC MTB Disk Brake Hubs**

**HBMX6 - Competition XC MTB Disk Brake Hubs**

**HBM96 - Performance Level MTB Disk Brake Hubs**

**HBM63 - Performance Level MTB Hubs**

New family of high end hubs with improved performance.





## Hubs

**HBRX6 / X7 - Competition Level Road Hubs**

**HBR86 / 87 - High Performance Road Hubs**

New family of high end hubs with improved performance.



## Shifters

**SLR63 - R8, R7, LF with High Polish Finish**

**SLR39 - R7, R6, R5, LF with Barrel Polish Finish**

New family of road shifters with improved ergonomics.

- Multiple mounting options.
- Alloy levers.



# CONTENT

# SUNRACE

DH MZ



P.1

Highest level of down hill and 27 speed components including cranksets, cassettes, and hubs.

MX M90



P.2

High level 27 speed components including various cranksets, cassettes, and hubs.

M95K M95



P.3

Middle level 27 speed complete group featuring carbon-like finish parts.

M93K M93



P.5

Entry level 27 speed complete group featuring carbon-like finish parts.



# SUN RACE

M63



Performance level 24 speed complete group.

**P.7**

M53



Entry level 24 speed complete group.

**P.8**

M4S



Mega Drive 21 speed complete group.

**P.9**

M33



**Middle level 21/18 speed complete group.**

**P.10**

[illegible]

## CONTENT

M2T M2B



**P.11**

Entry level 21/18/15 speed complete group.

M05



**P.13**

Friction complete group.

RT/RX/R90



**P.14**

Highest level of 10/9 speed cassettes and chain.

R80



**P.14**

High level of 9/8 speed cranksets, hubs, cassettes, rear derailleur.

MTB MTB MTB MTB MTB MTB MTB MTB ROAD ROAD ROAD ROAD ROAD ROAD



## CONTENT

R30



P.15

Middle level of 8/7 speed group.

R03



P.17

Entry level friction road group.

Other

P.19

AM

P.20

Specifications

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HBMD4 F



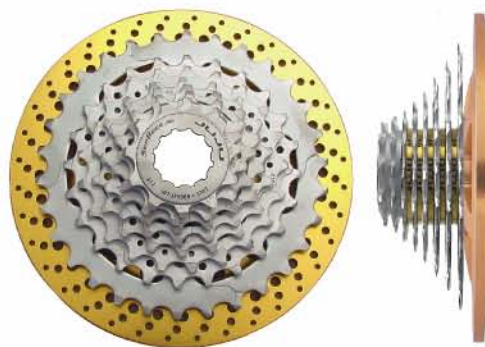
HBMD4 R9



HBMD5 R9



HBMD6 R9



CSMD4 8AT 11-30T



HBMZ6 F/R9



FCMZ4 (ISIS)  
44-32-22T



CSMZ6 9AV 11-34T  
CSMZ6 9AU 11-32T  
[Ti-Nitride]



CSMZ6 9AV 11-34T  
CSMZ6 9AU 11-32T  
[Satin]





HBMX6 F/R9



FCMX2 (ISIS) (M)  
44-32-22T



CSMX6 9AV 11-34T  
CSMX6 9AU 11-32T  
[Alloy Spacer]



FDM91 (44T) LD/MD/SD



FDM9A(48T) LD/MD/SD



FCM92 (ISIS) (M)  
FCM91  
44-32-22T



CSM96 9AV 11-34T  
CSM96 9AU 11-32T



27 speed

# M95K



TSM95 R9/L3/LF  
K (Karbon)



FCM96 (ISIS) (M)  
FCM95  
42-32-22 T  
K (Karbon)



FCM94 (M) (1)  
42-32-22 T  
K (Karbon)



HBM96 F/R9



CSMX3 9AU 11-32T  
[Alloy Spacer]



FDM95 LT/MT/ST  
K (Karbon)



RDM95 LD  
K (Karbon)



CNM99[Hollow Pin]  
S[Chrome]





# M95



DLM95 R9/L3 S(Silver)  
B(Black)



TSM95 R9/L3/LF



FCM96 (ISIS) (M)  
FCM95  
42-32-22 T



FCM94 (M) (1)  
42-32-22 T



CSMX3 9AU 11-32T  
[Alloy Spacer]



FDM95 LT/MT/ST



RDM95 LD



CNM99[Hollow Pin]  
Y[Gray]



# M90

## M93K



TSM93 R9/L3/LF  
K (Karbon)



FCM93 42-32-22 T (M) (1)  
K (Karbon)



CSM97 9AU 11-32T  
[Red Spacer]



FDM93 LT/MT/ST  
K (Karbon)



RDM94 LD  
RDM93 (Red)  
K (Karbon)



CNM94  
S[Chrome]

27 speed





## M93



DLM93 R9/L3 S(Silver)  
B(Black)



TSM93 R9/L3/LF



FCM93 42-32-22 T (M) (1)



CSM97 9AU 11-32T  
[Red Spacer]



FDM93 LT/MT/ST



RDM93 LD  
RDM94 (Black)



CNM94 Y[Gray]





DLM65 R8/L3 S(Silver)  
B(Black)



FCM63 42-32-22 T (M)



CSM66 8AS 11-28T  
8AU 11-32T  
8AV 11-34T  
8BU 12-32T  
8BV 12-34T  
CSM63 7AS 11-28T  
7AV 11-34T  
7BS 12-28T  
S[Satin]



TSM63 R8/R7/L3/LF



FDM64 LD/MD/SD



RDM63 LD



MFM60 8CU 13-32T  
U[UCP]  
C[CP]



FDM63 LT/MT/ST



CNM89 [Hollow Pin]  
S[Chrome]  
Y[Gray]



HBM63 F/R8







DLM53 R8/R7/L3



TSM53 R8/L3/LF



FCM51 42-34-24T (M)



FCM52 42-34-24T (M)

FCM53 42-34-24T



CSM53  
8AU 11-32T  
8BS 12-28T  
C[CP]



MFM5S  
8CS 13-28T  
U[UCP]



FDM55 LD  
FDM54 MD/SD



FDM53 LT/MT/ST



RDM53 LD



CNM84  
S[Chrome]  
Y[Gray]



HBM53 F/R8





TSM4S R7/L3



FCM52 42-34-24T (M)  
FCM53 42-34-24T



MFM4S 7CV 13-34T



RDM4S XD/XB



HBM40 F/R8/R7



CNM54  
Y[GRAY]  
B[Black]







DLM33 R7/L3



TSM33 R7/R6/L3/LF



FCM31 48-38-28T

(M)

(1)



FCM33 48-38-28T

FCM34 48-38-28T

(1)



MFM30  
7CS 13-28T  
U[UCP]  
C[CP]



MFM3S  
7CS 13-28T  
U[UCP]



MFM22  
6DS 14-28T  
U[UCP]



FDM34 MD/SD



RDM33 LD/LB [7 Speed]



RDM33 SD/SB [6 Speed]





TSM26 R7/R6/R5/LF



SLM2T R7/R6/R5/LF



FCM2C 42-34-24T



FCM2B 48-38-28T



FDM2S [42T]  
SB/ST/MB/MT



FDM2A [48T]  
SB/ST/MB/MT



RDM15 LD/LB  
[5 Speed]



RDM2T LD/LB  
[7&6 Speed]





TSM2B [R] R7/R6/LF



FDM2B [48T]  
SB/ST/MB/MT



TSM2B [W] R7/R6/LF



TSM2S R7/R6/LF



RDM2B LD/LB  
[7&6 Speed]



MFM2A [UCP] 7CS 13-28T  
7DS 14-28T  
7DV 14-34T  
6DS 14-28T  
5DS 14-28T



MFM2A [BROWN] 7CS 13-28T  
7DS 14-28T  
7DV 14-34T  
6DS 14-28T  
5DS 14-28T



TSM2S RF/LF



SLM10 RF/LF



MFM05 7CS 13-28T  
6DS 14-28T  
5DS 14-28T



FDM06 SB [Double]



FDM05 SB/MB



RDM10 LD/LB



CNM22



## RT/RX/R90



CNR10



CSRX4 9AO 11-23T  
9AP 11-24T  
9BP 12-24T  
9BQ 12-25T

[Satin]



HBRX6 F/R9  
HBRX7 R9



CSR94 9AO 11-23T  
9AP 11-24T  
9BP 12-24T  
9BQ 12-25T

[Satin]

## R80



HBR86 F/R9  
HBR87 R9



FCR83 52-42T  
FCR81 53-39T



RDR85 SD



CSR85 8AM 11-21T  
8BO 12-23T  
8BQ 12-25T  
8CQ 13-25T  
CSR84 8BP 12-24T  
[Satin]

# R30



BLR30



BCR30



SLR63

Brazed on : R8/R7/LF

(B) 28.6mm / (C) 44mm

Clamp : 8F/7F

(H) 22.2mm / (G) 25.4mm

(D) 28.6mm



FDR31 SB/MB



FCR33 52-42T

FCR31 53-39T



SLR39

Brazed on : R7/R6/R5/LF

(B) 28.6mm / (C) 44mm

Clamp : 7F/6F/5F

(H) 22.2mm / (G) 25.4mm

(D) 28.6mm



# R30



CSR63 8AP 11-24T  
8BP 12-24T  
CSR63 7AP 11-24T  
7BP 12-24T  
[Satin]



MFR30 7CP 13-24T  
[UCP]



RDR32 SD  
[7 Speed]



RDR31 SD  
[7 Speed]



MFR3S 7CP 13-24T  
[UCP]



MFR2A 6DP 14-24T  
5DP 14-24T  
[Brown]



RDM2T SD/SB  
[7&6 Speed]



RDM15 SD/SB  
[5 Speed]



speed  
16 14 12

# R03



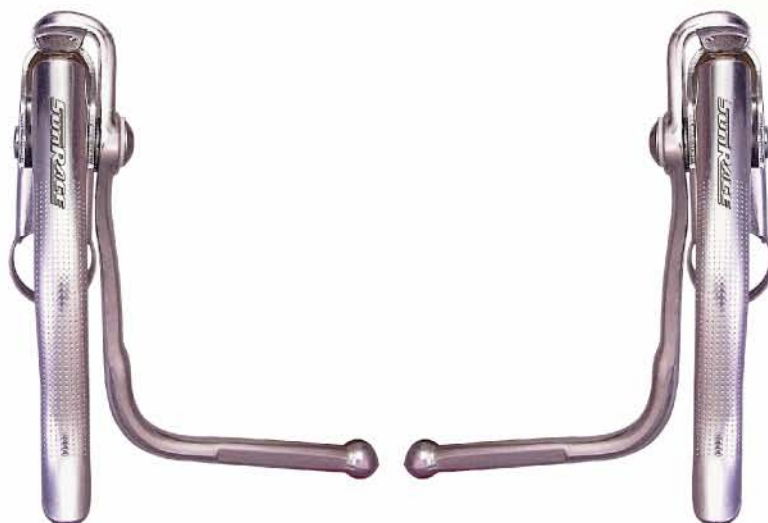
BLR02



SLR03

Clamp : FF/RF

(H) 22.2mm (D) 28.6mm



BLR03



BCR03



# R03



FDM06 SB  
[Double]



MFR05 6DP 14-24T  
5DP 14-24T



FCR05 48-38T



RDM10 SD/SB



12 10 speed

# Other

## Chains



CNR10



CNM99-S



CNM99-Y



CNM94-S



CNM94-Y



CNM89



CNM84



CNM54



CNM22



CNS22-D



CNS10-D  
CNS10-B



CNX42



CNX44



CNX45

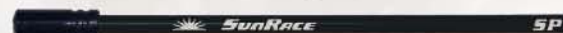


CNX46

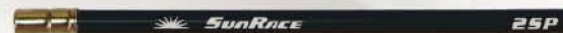
## Casings



OCSSP-SP Index Type Ø5mm



OCRSP-SP Index Type Ø4mm



OCS2S-2SP Index Type Ø5mm



OCR2S-2SP Index Type Ø4mm



OCS2P-2P Friction Type Ø5mm



OCR2P-2P Friction Type Ø4mm



OCS1P-1P Friction Type Ø5mm

**Color options available**



series



# JUJU



# BP



# BOX



# HP



# Specifications

## Trigger Shifters

Model No.	DLM95		DLM93		DLM65	
	R9	L3	R9	L3	R8	L3
Side and Speed	Right 9-Speed	Left 3-Speed	Right 9-Speed	Left 3-Speed	Right 8-Speed	Left 3-Speed
Display Type	In Clamp		Podium Top		In Clamp	
Cable Adjuster	○		○		○	
Clamp Fastening Screw	SUS302 Stainless Steel		SUS302 Stainless Steel		SCM435 Chromoly	
Large Lever	Aluminum		Aluminum		Aluminum	
Small Lever	Engineering Polymers		Engineering Polymers		Engineering Polymers	
Cable Type	Slick-Stainless		Slick-Galvanized		Slick-Galvanized	
Cable Length	2000mm	1500mm	2000mm	1500mm	2000mm	1500mm
Casing Compatibility	SP	SP	SP	SP	SP	2SP AND ↑
Weight	137g	139.5g	155.5g	152.5g	137g	139.5g
Handlebar diameter 22.2 ±0.2 mm / Tighten torque 60 ~ 80 kgf-cm						

Model No.	DLM53			DLM33	
	R8	R7	L3	R7	L3
Side and Speed	Right 8-Speed	Right 7-Speed	Left 3-Speed	Right 7-Speed	Left 3-Speed
Display Type	Podium Top			Podium Top	
Cable Adjuster	○			○	
Clamp Fastening Screw	SCM435 Chromoly			SCM435 Chromoly	
Large Lever	Aluminum			Engineering Polymers	
Small Lever	Engineering Polymers			Engineering Polymers	
Cable Type	Slick-Galvanized			Galvanized	
Cable Length	2000mm		1500mm	2000mm	1500mm
Casing Compatibility	SP	2SP AND ↑	2SP AND ↑	2SP AND ↑	2SP AND ↑
Weight	155.5g	155.5g	153.5g	158g	157g
Handlebar diameter 22.2 ±0.2 mm / Tighten torque 60 ~ 80 kgf-cm					



# Specifications

## Twist Shifters

Model No.	TSM95			TSM93		
	R9	L3	LF	R9	L3	LF
Side and Speed	Right 9-Speed	Left 3-Speed	Left Friction	Right 9-Speed	Left 3-Speed	Left Friction
Force Adjuster	○			○		
Cable Adjuster	○			○		
Clamp Type	C-Clamp			C-Clamp		
Cable Type	Slick-Galvanized			Slick-Galvanized		
Cable Length	2000mm	1500mm		2000mm	1500mm	
Casing Compatibility	SP	SP	2P AND ↑	SP	SP	2P AND ↑
Weight	110g	110g	110g	110g	110g	110g
Handlebar diameter	22.2 ±0.2 mm / Tighten torque 15 ~ 25 kgf-cm					

Model No.	TSM63				TSM53		
	R8	R7	L3	LF	R8	L3	LF
Side and Speed	Right 8-Speed	Right 7-Speed	Left 3-Speed	Left Friction	Right 8-Speed	Left 3-Speed	Left Friction
Cyclops Display	×				○		
Force Adjuster	○				×		
Cable Adjuster	○				○		
Clamp Type	C-Clamp				C-Clamp		
Cable Type	Slick-Galvanized				Slick-Galvanized		
Cable Length	2000mm		1500mm		2000mm	1500mm	
Casing Compatibility	SP		2SP AND ↑	2P AND ↑	SP	2SP AND ↑	2P AND ↑
Weight	109g	109g	106.5g	106.5g	89g	86g	86g
Handlebar diameter	22.2 ±0.2 mm / Tighten torque 15 ~ 25 kgf-cm						

# Specifications

## Twist Shifters

Model No.	TSM4S		TSM33			
	R7	L3	R7	R6	L3	LF
Side and Speed	Right 7-Speed	Left 3-Speed	Right 7-Speed	Right 6-Speed	Left 3-Speed	Left Friction
Cyclops Display	○		○			
Cable Adjuster	○		○			
Clamp Type	C-Clamp		C-Clamp			
Cable Type	Slick-Galvanized		Slick-Galvanized			
Cable Length	2000mm	1500mm	2000mm		1500mm	
Casing Compatibility	SP	2SP AND ↑	SP	2SP AND ↑	2SP AND ↑	2P AND ↑
Weight	114g	112g	89g	89g	86g	86g
Handlebar diameter 22.2 ±0.2 mm / Tighten torque 15 ~ 25 kgf-cm						

Model No.	TSM26			
	R7	R6	R5	LF
Side and Speed	Right 7-Speed	Right 6-Speed	Right 5-Speed	Left Friction
Cable Adjuster	○			
C-Clamp	×			
Cable Type	Galvanized			
Cable Length	2000mm			1500mm
Casing Compatibility	2SP AND ↑			2P AND ↑
Weight	102g	102g	102g	98g
Handlebar diameter 22.2 ±0.2 mm / Tighten torque 15 ~ 17 kgf-cm				

Model No.	TSM2B			TSM2S			
	R7	R6	LF	R7	R6	RF	LF
Side and Speed	Right 7-Speed	Right 6-Speed	Left Friction	Right 7-Speed	Right 6-Speed	Right Friction (7 / 6 / 5)	Left Friction
Cable Adjuster	×			×			
C-Clamp	×			×			
Cable Type	Slick-Galvanized		Galvanized	Slick-Galvanized		Galvanized	
Cable Length	2000mm		1500mm	2000mm			1500mm
Casing Compatibility	2SP AND ↑		2P AND ↑	2SP AND ↑		2P AND ↑	2P AND ↑
Weight	87.5g	87.5g	80.5g	87.5g	87.5g	87.5g	80.5g
Handlebar diameter 22.2 ±0.2 mm / Tighten torque 15 ~ 30 kgf-cm							



# Specifications

## Thumb Shifters

Model No.	SLM2T				SLM10	
	R7	R6	R5	LF	RF	LF
Side and Speed	Right 7-Speed	Right 6-Speed	Right 5-Speed	Left Friction (3 / 2)	Right Friction (8 / 7 / 6 / 5)	Left Friction (3 / 2)
Cable Adjuster	○			×	×	
Cable Type	Galvanized				Galvanized	
Cable Length	2000mm			1500mm	2000mm	1500mm
Casing Compatibility	2SP AND ↑			2P AND ↑	1P AND ↑	
Weight	64.5g	64.5g	64.5g	65g	64.5g	61.5g
Handlebar diameter 22.2 ±0.2 mm / Tighten torque 20~ 25 kgf-cm						

## Front Derailleurs

Model No.	FDM95	FDM93	FDM91	FDM9A	FDM64	FDM63
Top Gear Teeth	42T	42T	44T	48T	42T	42T
Top-Low Max. Capacity	20T	20T	22T	20T	20T	20T
Top-Middle Min. Capacity	8T	10T	10T	10T	10T	8T
Cable Routing	(T) Top Pull		(D) Dual Pull		(D) Dual Pull	(T) Top Pull
Clamp Diameter	(S) 28.6 / (M) 31.8 / (L) 34.9mm		(S) 28.6 / (M) 31.8 / (L) 34.9mm		(S) 28.6 / (M) 31.8 / (L) 34.9mm	
Clamp Material	Steel		Aluminum		Aluminum	Steel
Chain Stay Angle	66~69 °		66~69 °		66~69 °	
Weight	207g(M)	207g(M)	144g(M)	141g(M)	146g(M)	205g(M)

Model No.	FDM55	FDM54	FDM53	FDM34
Top Gear Teeth	42T	42T	42T	48T
Top-Low Max. Capacity	18T	20T	20T	20T
Top-Middle Min. Capacity	8T	10T	8T	10T
Cable Routing	(D) Dual Pull		(T) Top Pull	(D) Dual Pull
Clamp Diameter	(L) 34.9mm	(S) 28.6 / (M) 31.8 mm	(S) 28.6 / (M) 31.8 / (L) 34.9mm	(S) 28.6 / (M) 31.8 mm
Clamp Material	Aluminum	Aluminum-Steel	Steel	Aluminum-Steel
Chain Stay Angle	66~69 °		66~69 °	66~69 °
Weight	150g(L)	150g(M)	205g(M)	145g(M)

# Specifications

## Front Derailleurs

Model No.	FDM2S	FDM2A	FDM2B
Top Gear Teeth	42 T	48 T	48 T
Top-Low Max. Capacity	18 T	20 T	20 T
Top-Middle Min. Capacity	8 T	10 T	10 T
Clamp Diameter	(S) 28.6 / (M) 31.8 mm		
Cable Routing	(T) Top Pull / (B) Bottom Pull		
Chain Stay Angle	66~69 °		
Weight	140g / 144g	150g / 154g	150g / 154g

Model No.	FDM06	FDM05
Top Gear Teeth	48 T	48 T
Top-Low Max. Capacity	20T	20T
Top-Middle Min. Capacity	10T	10T
Clamp Diameter	(S) 28.6 mm	(S) 28.6 mm
Cable Routing	(B) Bottom Pull	(B) Bottom Pull
Chain Stay Angle	66~69 °	66~69 °
Weight	142g	148g

## Cranksets

Model No.	FCMZ4	FCMX2	FCM92	FCM91
Function	Super Fluid Drive	Super Fluid Drive	Super Fluid Drive	Super Fluid Drive
Crank Arm Spline Type	ISIS	ISIS	ISIS	Square Taper
Number of Teeth	44-32-22T	44-32-22T	44-32-22T	44-32-22T
Outer Chainring	7075 Aluminum	7075 Aluminum	7075 Aluminum	7075 Aluminum
Middle Chainring	7075 Aluminum	7075 Aluminum	SS400	SS400
Inner Chainring	7075 Aluminum	SS400	SS400	SS400
Removable Chainrings	○	○	○	○
Crank Style	I-Crank	I-Crank	I-Crank	I-Crank
Crank Arms	6061 Aluminum Forged	6061 Aluminum Forged	6061 Aluminum Forged	6061 Aluminum Forged
Crank Arm Spider	6061 Aluminum Forged	6061 Aluminum Forged	6061 Aluminum Forged	6061 Aluminum Forged
Crank Arm Length	175/170mm	175/170mm	175/170mm	175/170mm
Chainring Bolts & Nuts	7075 Aluminum	SUS302 Stainless Steel	SCM435 Chromoly	SCM435 Chromoly
Bolt Circle Diameter	104mm/64mm	104mm/64mm	104mm/64mm	104mm/64mm
48mm Chain Line (BB Shell)	113mm	113mm	113mm	110mm
50mm Chain Line (BB Shell)	118mm	118mm	118mm	113mm
Crank(R) Weight	435g (175)	450g (175)	525g (175)	540g (175)
Crank(L) Weight	205g (175)	205g (175)	205g (175)	220g (175)
Total Weight	640g (175)	655g (175)	730g (175)	760g (175)



# Specifications

## Cranksets

Model No.	FCM96	FCM95	FCM94	FCM93
Function	Fluid Drive Plus	Fluid Drive Plus	Fluid Drive Plus	Fluid Drive Plus
Crank Arm Spline Type	ISIS	Square Taper	Square Taper	Square Taper
Number of Teeth	42-32-22T	42-32-22T	42-32-22T	42-32-22T
Outer Chainring	SS400	SS400	SS400	SS400
Middle Chainring	SS400	SS400	SS400	SS400
Inner Chainring	SS400	SS400	SS400	SS400
Chainguard Options	Ring Type	Ring Type	Ring Type	Ring Type
Crank Style	I-Crank	I-Crank	A-Crank	A-Crank
Crank Color Options	Karbon/Black	Karbon/Black	Karbon/Black	Karbon/Black
Crank Arms	6061 Aluminum Forged	6061 Aluminum Forged	A356.2 Aluminum	A356.2 Aluminum
Crank Arm Spider	6061 Aluminum Forged	6061 Aluminum Forged	×	×
Crank Arm Length	175/170mm	175/170mm	175/170mm	175/170mm
Chainring Bolts & Nuts	SCM435 Chromoly	SCM435 Chromoly	SCM435 Chromoly	SCM435 Chromoly
Bolt Circle Diameter	104mm/64mm	104mm/64mm	104mm/64mm	104mm/64mm
48mm Chain Line (BB Shell)	113mm	110mm	110mm	110mm
50mm Chain Line (BB Shell)	118mm	113mm	113mm	113mm
Crank(R) Weight	560g (175)	570g (175)	555g (175)	555g (175)
Crank(L) Weight	220g (175)	220g (175)	210g (175)	210g (175)
Total Weight	780g (175)	790g (175)	765g (175)	765g (175)

# Specifications

## Cranksets

Model No.	FCM63	FCM53	FCM52	FCM51
Function	Fluid Drive Plus	Fluid Drive Plus	Fluid Drive Plus	
Number of Teeth	42-32-22T	42-34-24T	42-34-24T	
Outer Chainring	SS400	SS400	SS400	
Middle chainring	SS400	SS400	SS400	
Inner chainring	SS400	SS400	SS400	
Chainguard Options	Ring Type	Ring Type	Ring Type	
Crank Style	I-Crank	I-Crank	I-Crank	A-Crank
Crank Arms	A356.2 Aluminum	Aluminum Forged	A356.2 Aluminum	
Crank Arm Length (mm)	175/170mm	175/170mm	175/170/165/162.5mm	175/170/165/160/152mm
48mm Chain Line (BB Shell)	116mm	116mm	116mm	
50mm Chain Line (BB Shell)	120mm	120mm	120mm	
Crank(R) Weight	635g (175)	660g (175)	685g (175)	630g (175)
Crank(L) Weight	235g (175)	238g (175)	235g (175)	210g (175)
Total Weight	885g (175)	898g (175)	920g (175)	940g (175)

Model No.	FCM34	FCM33	FCM31
Function	Fluid Drive	Fluid Drive	
Number of Teeth	48-38-28T	48-38-28T	
Outer Chainring	SS400	SS400	
Middle chainring	SS400	SS400	
Inner chainring	SS400	SS400	
Chainguard Options	Full or Ring Type	Full or Ring Type	
Crank Style	I-Crank	I-Crank	A-Crank
Crank Arms	Aluminum Forged	A356.2 Aluminum	
Crank Arm Length (mm)	175/170mm	175/170/165/162.5mm	175/170/165/160/152mm
48mm Chain Line (BB Shell)	124.5mm	124.5mm	
50mm Chain Line (BB Shell)	127.0mm	127.0mm	
Crank(R) Weight	775g(175)	800g (175)	805g (175)
Crank(L) Weight	238g (175)	235g (175)	210g (175)
Total Weight	1013g (175)	1035g (175)	1015g (175)



# Specifications

## Cranksets

Model No.	FCM2B	FCM2C
Function	Index	Index
Number of Teeth	48-38-28T	42-34-24T
Outer Chainring	Steel	Steel
Middle chainring	Steel	Steel
Inner chainring	Steel	Steel
Chainguard Options	Ring Type	Ring Type
Crank Arms	Steel+Plastics	Steel+Plastics
Crank Arm Length	170mm	170mm
48mm Chain Line (BB Shell)	116mm	116mm
50mm Chain Line (BB Shell)	120mm	120mm
Crank(R) Weight	975g(170)	820g(170)
Crank(L) Weight	400g(170)	400g(170)
Total Weight	1375g (170)	1220g (170)

## Cassettes

Model No.	CSMD4 8AT (S)
Function	Fluid Drive Plus
Speeds	8-Speed
Number of Teeth	11-30T
Gear Combination	11-12-14-16--18-21-24-30
Sprocket Material	SAPH440
Sprocket Finish	(S) Sandblast Satin
Light Weight Holes	○
Spacer Material	Gold Aluminum w/ JUJU Logo
Protector Material	6061 Aluminum
Protector Finish	Anodized Gold
Chain Compatibility	6.6mm
Weight	415g

## Cassettes

Model No.	CSMZ6 9AV (T)	CSMZ6 9AU (T)	CSMZ6 9AV (S)	CSMZ6 9AU (S)	CSMX6 9AV (S)	CSMX6 9AU (S)
Function	Super Fluid Drive		Super Fluid Drive		Super Fluid Drive	
Speeds	9-Speed		9-Speed		9-Speed	
Number of Teeth	11-34T	11-32T	11-34T	11-32T	11-34T	11-32T
Gear Combination	11-12-14-16-18- -21-24-28-34	11-12-14-16-18- -21-24-28-32	11-12-14-16-18- -21-24-28-34	11-12-14-16-18- -21-24-28-32	11-12-14-16-18- -21-24-28-34	11-12-14-16-18- -21-24-28-32
Sprocket Finish	(T) Titanium Nitrite		(S) Sandblast Satin		(S) Sandblast Satin	
Sprocket Material	SAPH440		SAPH440		SAPH440	
New Sprocket Cut Away	○		○		○	
Light Weight Holes	○		○		○	
Spacer Material	7075 Aluminum		7075 Aluminum		Gold Aluminum w/ JUJU Logo	
Chain Compatibility	6.6mm		6.6mm		6.6mm	
Weight	283g	275g	285g	275g	370g	350g

# Specifications

## Cassettes

Model No.	CSMX3 9AU (S)	CSM97 9AU (S)	CSM96 9AV (S)	CSM96 9AU (S)
Function	Super Fluid Drive	Super Fluid Drive	Super Fluid Drive	
Speeds	9-Speed	9-Speed	9-Speed	
Number of Teeth	11-32T	11-32T	11-34T	11-32T
Gear Combination	11-12-14-16-18- -21-24-28-32	11-12-14-16-18- -21-24-28-32	11-12-14-16-18- -21-24-28-34	11-12-14-16-18- -21-24-28-32
Sprocket Finish	(S) Sandblast Satin	(S) Sandblast Satin	(S) Sandblast Satin	
Sprocket Material	SAPH440	SAPH440	SAPH440	
New Sprocket Cut Away	○	○	○	
Light Weight Holes	○	○	○	
Spacer Material	Silver Aluminum w/ JUJU Logo	Red Engineering Polymers w/ JUJU Logo	Gray Engineering Polymers w/ JUJU Logo	
Chain Compatibility	6.6mm	6.6mm	6.6mm	
Weight	350g	340g	360g	340g

Model No.	CSM66 8AV(S)	CSM66 8AU(S)	CSM66 8AS(S)	CSM66 8BU(S)	CSM66 8BV(S)
Function	Super Fluid Drive			Super Fluid Drive	
Speeds	8-Speed			8-Speed	
Number of Teeth	11-34T	11-32T	11-28T	12-32T	12-34T
Gear Combination	11-13-15-18- -21-24-28-34	11-13-15-18- -21-24-28-32	11-12-14-16- -18-21-24-28	12-14-16-18- -21-24-28-32	12-14-16-18- -21-24-28-34
Sprocket Finish	(S) Sandblast Satin			(S) Sandblast Satin	
Sprocket Material	SAPH440			SAPH440	
New Sprocket Cut Away	○			○	
Light Weight Holes	○			○	
Spacer Material	Engineering Polymers			Engineering Polymers	
Chain Compatibility	7.1~7.3mm			7.1~7.3mm	
Weight	355g	350g	330g	335g	340g



# Specifications

## Cassettes

Model No.	CSM63 7AV(S)	CSM63 7AS(S)	CSM63 7BS(S)	CSM53 8AU(C)	CSM53 8BS(C)
Function	Super Fluid Drive			Super Fluid Drive	Fluid Drive Plus
Speeds	7-Speed			8-Speed	8-Speed
Number of Teeth	11-34T	11-28T	12-28T	11-32T	12-28T
Gear Combination	11-13-15-18- -21-24-34	11-13-15-18- -21-24-28	12-14-16-18- -21-24-28	11-13-15-18- -21-24-28-32	12-13-14-16- -18-21-24-28
Sprocket Finish	(S) Sandblast Satin			Chrome Plated	Chrome Plated
Sprocket Material	SAPH440			SAPH440	Steel
New Sprocket Cut Away	○			○	○
Light Weight Holes	○			○	○
Spacer Material	Engineering Polymers			Engineering Polymers	Engineering Polymers
Chain Compatibility	7.1~7.3mm			7.1~7.3mm	7.1~7.3mm
Weight	297g	245g	255g	350g	270g

## Freewheels

Model No.	MFM60 8CU (C)	MFM60 8CU (U)	MFM5S 8CS (U)
Function	Fluid Drive Plus		Fluid Drive
Speeds	8-Speed		8-Speed
Lock Ring	○		○
Number of Teeth	13-32T		13-28T
Gear Combination	13-15-17-19-21-24-28-32		13-14-15-17- -19-21-24-28
Sprocket Finish	(C) Chrome Plated	(U) Zinc	(U) Zinc
Sprocket Material	Steel		Steel
Light Weight Holes	○		○
Spacer Material	Resin		Resin
Chain Compatibility	7.1~7.3mm		7.1~7.3mm
Weight	578g	578g	555g

# Specifications

## Freewheels

Model No.	MFM4S 7CV (U)	MFM30 7CS (C)	MFM30 7CS (U)	MFM3S 7CS (U)	MFM22 6DS (U)
Function	Fluid Drive Plus	Fluid Drive Plus		Fluid Drive Plus	Fluid Drive Plus
Speeds	7-Speed	7-Speed		7-Speed	6-Speed
Lock Ring	○	○		○	○
Number of Teeth	13-34T	13-28T		13-28T	14-28T
Gear Combination	13-15-17-19-21-24-34	13-15-17-19-21-24-28		13-15-17-19-21-24-28	14-16-18-21-24-28
Sprocket Finish	(U) Zinc + EDB	(C) Chrome Plated	(U) Zinc	(U) Zinc	(U) Zinc
Sprocket Material	Steel	Steel		Steel	Steel
Light Weight Holes	○	○		○	○
Spacer Material	Resin	Resin		Resin	Resin
Chain Compatibility	7.3mm	7.3mm		7.3mm	7.3~7.8mm
Weight	504g	460g		460g	433g

Model No.	MFM2A 7DV (1)	MFM2A 7DV (2)	MFM2A 7DS (1)	MFM2A 7DS (2)	MFM2A 7CS (1)	MFM2A 7CS (2)
Function	Fluid Drive		Fluid Drive		Fluid Drive	
Speeds	7-Speed		7-Speed		7-Speed	
Lock Ring	○		○		○	
Number of Teeth	14-34T		14-28T		13-28T	
Gear Combination	14-16-18-20-22-24-34		14-16-18-20-22-24-28		13-15-17-19-21-24-28	
Sprocket Finish	(1)Zinc+EDB	(2)Brown+EDB	(1)Zinc+EDB	(2)Brown+EDB	(1)Zinc+EDB	(2)Brown+EDB
Sprocket Material	Steel		Steel		Steel	
Light Weight Holes	×		×		×	
Spacer Material	Resin		Resin		Resin	
Chain Compatibility	7.3mm		7.3mm		7.3mm	
Weight	535g		495g		466g	



# Specifications

## Freewheels

Model No.	MFM2A 6DS (1)	MFM2A 6DS (2)	MFM2A 5DS (1)	MFM2A 5DS (2)
Function	Fluid Drive		Fluid Drive	
Speeds	6-Speed		5-Speed	
Lock Ring	○		○	
Number of Teeth	14-28T		14-28T	
Gear Combination	14-16-18-21-24-28		14-16-20-24-28	
Sprocket Finish	(1)Zinc+EDB	(2)Brown+EDB	(1)Zinc+EDB	(2)Brown+EDB
Sprocket Material	Steel		Steel	
Light Weight Holes	×		×	
Spacer Material	Resin		Resin	
Chain Compatibility	7.3~7.8mm		7.8mm	
Weight	458g		416g	

Model No.	MFM05 7CS	MFM05 6DS	MFM05 5DS
Function	Friction		
Speeds	7-Speed	6-Speed	5-Speed
Number of Teeth	13-28T	14-28T	14-28T
Gear Combination	13-15-17-19-21-24-28	14-16-18-21-24-28	14-16-20-24-28
Sprocket Finish	Black		
Sprocket Material	Steel		
Light Weight Holes	×		
Spacer Material	Resin		
Chain Compatibility	7.3mm	7.3~7.8mm	7.8mm
Weight	480g	468g	432g

# Specifications

## Rear Derailleurs

Model No.	RDM95 LD	RDM93 LD
Mounting Type	(D) Direct	(D) Direct
Speeds	9-Speed	9-Speed
Max. Sprocket	32T	32T
Min. Sprocket	11T	11T
Rear Capacity	21T	21T
Total Capacity	41T	41T
Outer Link	Magnesium Alloy	Magnesium Alloy
Inner Link	Steel	Steel
Bracket Body	Engineering Polymers	Engineering Polymers
Plate Body	Engineering Polymers	Engineering Polymers
Outer Plate Cage	6061 Aluminum	6061 Aluminum
Inner Plate Cage	Steel	Steel
Guide Pulley	11T(bushing)	11T(bushing)
Tension Pulley	13T(bushing)	13T(bushing)
Pin Bushing Outer Link	○	○
Pin Bushing Inner Link	×	×
Weight	303.5 g	303.5 g

Model No.	RDM63 LD	RDM53 LD
Mounting Type	(D) Direct	(D) Direct
Speeds	8-Speed	8-Speed
Max. Sprocket	34T	30T
Min. Sprocket	11T	11T
Rear Capacity	23T	19T
Total Capacity	43T	39T
Outer Link	Magnesium Alloy	Engineering Polymers
Inner Link	Steel	Steel
Bracket Body	Engineering Polymers	Engineering Polymers
Plate Body	Engineering Polymers	Engineering Polymers
Outer Plate Cage	6061 Aluminum	Engineering Polymers
Inner Plate Cage	Steel	Engineering Polymers
Guide Pulley	11T(bushing)	11T(bushing)
Tension Pulley	13T(bushing)	11T(bushing)
Pin Bushing Outer Link	○	○
Pin Bushing Inner Link	×	×
Weight	292 g	243 g

Model No.	RDM4S XD	RDM4S XB	RDM33 LD	RDM33 LB	RDM33 SD	RDM33 SB
Mounting Type	(D) Direct	(B) Bracket	(D) Direct	(B) Bracket	(D) Direct	(B) Bracket
Speeds	7-Speed		7-Speed		6-Speed	
Max. Sprocket	34T		30T		30T	
Min. Sprocket	13T		13T		13T	
Rear Capacity	21T		17T		16T	
Total Capacity	41T		37T		36T	
Guide Pulley	11T (bushing)		11T		11T	
Tension Pulley	15T (bushing)		11T		11T	
Weight	245g	285g	230g	270g	225g	265g



# Specifications

## Rear Derailleurs

Model No.	RDM2T LD	RDM2T LB	RDM2B LD	RDM2B LB	RDM15 LD	RDM15 LB
Cage Type	(L) Long	(L) Long	(L) Long	(L) Long	(L) Long	(L) Long
Mounting Type	(D) Direct	(B) Bracket	(D) Direct	(B) Bracket	(D) Direct	(B) Bracket
Speeds	7 / 6-Speed		7 / 6-Speed		5-Speed	
Max. Sprocket	28T		28T		28T	
Min. Sprocket	13T		13T		13T	
Rear Capacity	15T		15T		15T	
Total Capacity	35T		35T		35T	
Weight	265g	290g	265g	290g	265g	290g

Model No.	RDM10 LD	RDM10 LB
Cage Type	(L) Long	(L) Long
Mounting Type	(D) Direct	(B) Bracket
Speeds	Friction	
Max. Sprocket	28T	
Min. Sprocket	13T	
Rear Capacity	15T	
Total Capacity	35T	
Weight	265g	290g

## MTB Hubs

Model No.	HBMD4		HBMD5	HBMD6	HBMZ6		HBMX6		HBM96	
	F	R9	R9	R9	F	R9	F	R9	F	R9
Cassette Carrier Material	---	7075 Aluminum	7075 Aluminum		---	7075 Aluminum	---	7075 Aluminum	---	SCM435
Cassette Carrier System	---	3 Paws	3 Paws		---	5 Paws	---	3 Paws	---	3 Paws
Hub Shell Material	6061 Aluminum		6061 Aluminum		6061 Aluminum		6061 Aluminum		6061 Aluminum	
Bearing	Seal Cartridge(×2)	Seal Cartridge(×5)	Seal Cartridge(×5)	Seal Cartridge(×4)	Seal Cartridge(×2)	Seal Cartridge(×4)	Seal Cartridge(×2)	Seal Cartridge(×4)	Precision Ground Loose Ball	
D-Dimension	---	41mm	41mm		---	41mm	---	41mm	---	41mm
Axle Diameter	---	12mm	12mm		9mm	10mm	9mm	10mm	9mm	10mm
Over Lock Dimension	110mm	150mm	150mm	135mm	100mm	135mm	100mm	135mm	100mm	135mm
Hub Axle Material	---	SCM435	SCM435		7075 Aluminum		7075 Aluminum		7075 Aluminum	
Hub Axle Length	148mm	150mm	150mm	135mm	110mm	145mm	110mm	145mm	108mm	145mm
Spoke Holes	32H		32H		32H		32H		32H	
Pitch Circle Diameter	58mm		58mm		R38.5mm / L58mm	R48mm / L58mm	R38.5mm / L58mm	R45.5mm / L58mm	58mm	58mm
Flange Width	56.5mm	74.4mm	74.4mm	56mm	56mm	56.7mm	56mm	56.9mm	58mm	57mm
QR Lever Material	n/a	6061 Aluminum	6061 Aluminum		6061 Aluminum		6061 Aluminum		6061 Aluminum	
QR Nut Material	n/a	6061 Aluminum	6061 Aluminum		6061 Aluminum		6061 Aluminum		6061 Aluminum	
QR Axle Material	n/a	SCM435	SCM435		Titanium		SCM435		SCM435	
QR Axle Length	n/a	166mm	166mm	151mm	112mm	149mm	112mm	149mm	112mm	149mm
Finish	Metallic Gray		Metallic Gray		Metallic Gray		JUJU Silver		Mat Black	
Weight	250g	541g	497g	456g	133g	258g	154g	270g	241g	431g

# Specifications

## Hubs

Model No.	HBM63		HBM53	
	F	R8	F	R8
Cassette / Freewheel	---	Cassette	---	Cassette
Double Rubber Seal	○		○	
Hub Shell Material	6061 Aluminum		6061 Aluminum	
Bearing	Precision Ground Loose Ball		Loose Ball	Loose Ball
D-Dimension	---	41mm	---	41mm
Axle Diameter	9mm	10mm	9mm	10mm
Over Lock Dimension	100mm	135mm	100mm	135mm
Hub Axle Material	SCM435		SCM435	
Hub Axle Length	108mm	145mm	108mm	145mm
Spoke Holes	32H/36H		32H/36H	
Pitch Circle Diameter	40mm	45.5mm	38.5mm	45.5mm
Flange Width	63.4mm	58mm	72mm	58mm
QR Lever Material	6061 Aluminum		6061 Aluminum	
QR Nut Material	6061 Aluminum		6061 Aluminum	
QR Axle Material	SCM435		SCM435	
QR Axle Length	112mm	149mm	112mm	149mm
Finish	Mat Black		Option	
Weight	190g	393g	160g	390g

Model No.	HBM40(H)			HBM40(A)	
	F	R7	R8	F	R7
Cassette / Freewheel	---	Freewheel		---	Freewheel
Type of Axle	Hollow			Solid	
Hub Shell Material	6061 Aluminum			6061 Aluminum	
Bearing	Loose Ball			Loose Ball	
D-Dimension	---	38mm	41mm	---	38mm
Axle Diameter	9mm	10mm		3/8"	
Over Lock Dimension	100mm	135mm		100mm	135mm
Hub Axle Material	S45C			S45C	
Hub Axle Length	108mm	145mm		108mm	145mm
Spoke Holes	36H			36H	
Pitch Circle Diameter	38mm	45.5mm		38mm	45.5mm
Flange Width	72mm	57mm		72mm	57mm
QR Lever Material	6061 Aluminum			n/a	
QR Nut Material	6061 Aluminum			n/a	
QR Axle Material	SCM435			n/a	
QR Axle Length	112mm	149mm		n/a	
Finish	Natural Alloy			Natural Alloy	
Weight	160g	215g	205g	160g	390g

## Quick Release

Model	CNQ10	CNQ09	CNQ87
Pitch	1/2" x 3/32"	1/2" x 3/32"	1/2" x 3/32"
Pin Width	6.35mm	6.65mm	7.35mm

## Chains

Model	CNM99(S)	CNM99(Y)	CNM94(S)	CNM94(Y)	CNM89(S)	CNM89(Y)	CNM84(S)	CNM84(Y)	CNM54(Y)	CNM54(B)	CNM22(B)
Speeds	27 Speed		27 Speed		24 Speed		24 Speed		21/18 Speed		Friction
Pitch	1/2" x 11/128"		1/2" x 11/128"		1/2" x 3/32"		1/2" x 3/32"		1/2" x 3/32"		1/2" x 3/32"
Pin Width	≤ 6.6mm		≤ 6.6mm		7.1mm		7.1mm		7.3mm		7.8mm
Pin Material	SCM420		SCM420		SCM420		SCM420		SAE1022		SAE1022
Pin Power	300 kgf		250 kgf		180 kgf		180 kgf		150 kgf		150 kgf
Outer Plate Material	SCM430/0.9mm		SCM430/0.9mm		SAE1035/1.0mm		SAE1035/1.0mm		SAE1008/1.0mm		SAE1008/1.0mm
Inner Plate Material	SCM430/0.9mm		SCM430/0.9mm		SCM430/1.0mm		SCM430/1.0mm		SAE1008/1.0mm		SAE1008/1.0mm
Tensile Strength	1050 kgf		1050 kgf		1050 kgf		1050 kgf		900 kgf		900 kgf
Finish	Chrome	Grey	Chrome	Grey	Chrome	Grey	Chrome	Grey	Grey	Black	Black
Easy Link	Standard		Standard		Option		Option		Option		Option



# Specifications

## Shifters

Model No.		SLR63				
		R8	R7	LF	8F	7F
Speeds	Rear	8-Speed	7-Speed	×	8-Speed	7-Speed
	Front	×		Friction (3 / 2)	Friction (3 / 2)	
Mounting		Brazed On Type 28.6mm (B) Brazed On Type 44mm (C)			Down Tube 28.6mm Clamp (D) Handlebar Stem 25.4mm Clamp (G) 、 22.2mm Clamp(H)	
Cable Type		Slick-Galvanized			Slick-Galvanized	
Cable Length		2000mm		1500mm	R:2000mm / L:1500mm	
Casing Compatibility		SP		2P AND ↑	R: SP / L: 2P AND ↑	
Weight		56g			(D) 119g / (G) (H) 134g	

Model No.		SLR39						
		R7	R6	R5	LF	7F	6F	5F
Speed	Rear	7-Speed	6-Speed	5-Speed	×	7-Speed	6-Speed	5-Speed
	Front	×			Friction (3 / 2)	Friction (3 / 2)		
Mounting		Brazed On Type 28.6mm (B) Brazed On Type 44mm (C)				Down Tube 28.6mm Clamp (D) Handlebar Stem 25.4mm Clamp (G) 、 22.2mm Clamp (H)		
Cable Type		Slick-Galvanized				Slick-Galvanized		
Cable Length		2000mm			1500mm	R:2000mm / L:1500mm		
Casing Compatibility		SP	2SP AND ↑		2P AND ↑	R: SP / L: 2P AND ↑	R: 2SP AND ↑ / L: 2P AND ↑	
Weight		56g				(D) 119g / (G) (H) 134g		

Model No.		SLR03	
		FF	RF
Speeds	Rear	Friction (8 / 7 / 6)	
	Front	Friction (3 / 2)	×
Mounting		Down Tube 28.6mm Clamp(D) Handlebar Stem 22.2mm Clamp(H)	
Cable Type		Galvanized	
Cable Length		R:2000mm / L:1500mm	
Casing Compatibility		1P AND ↑	
Weight		(D) 78g / (H) 70g	(D) 45g / (H) 37g

# Specifications

## Cranksets

Model No.	FCR83	FCR81	FCR33	FCR31	FCR05
Function	Fluid Drive	Fluid Drive	Fluid Drive	Fluid Drive	Friction
Crank Arm Spline Type	Square Taper	Square Taper	Square Taper	Square Taper	Square Taper
Number of Teeth	52-42T	53-39T	52-42T	53-39T	48-38T
Outer Chainring	Steel	Steel	Steel	Steel	Steel
Inner Chainring	Steel	Steel	Steel	Steel	Steel
Crank Arms	6061 Aluminum Forged	6061 Aluminum Forged	Aluminum	Aluminum	Steel+Plastics
Crank Arm Length	175/170mm	175/170mm	175/170mm	175/170mm	170mm
Chainring Bolts & Nuts	SCM435 Chromoly	SCM435 Chromoly	SCM435 Chromoly	SCM435 Chromoly	×
Bolt Circle Diameter	130mm	130mm	130mm	130mm	N/A
44.5mm Chain Line (BB Shell)	110mm	110mm	110mm	110mm	108mm
Crank(R) Weight	688.5g (175)	695.5g (175)	669.5g (175)	676.5g (175)	870g
Crank(L) Weight	210.5g (175)	210.5g (175)	224.0g (175)	224.0g (175)	390g
Total Weight	899g (175)	906g (175)	893.5g (175)	900.5g (175)	1260g

## Front Derailleurs

Model No.	FDR31	FDM06
Top Gear Teeth	53 T	48T
Top-Low Max. Capacity	14 T	20T
Top-Low Min. Capacity	10 T	10T
Clamp Diameter	(S) 28.6 / (M) 31.8 mm	(S) 28.6mm
Cable Routing	(B) Bottom Pull	(B) Bottom Pull
Chain Stay Angle	63~66 °	66~69 °
Weight	150g	142g



# Specifications

## Rear Derailleurs

Model No.	RDR85	RDR32	RDR31
Mounting Type	(D) Direct	(D) Direct	(D) Direct
Speeds	8-Speed	7-Speed	7-Speed
Max. Sprocket	27T	24T	24T
Min. Sprocket	11T	11T	11T
Rear Capacity	16T	17T	17T
Total Capacity	29T	29T	29T
Weight	300g	280g	265g

Model No.	RDM10 SD	RDM10 SB
Cage Type	(S) Short	(S) Short
Mounting Type	(D) Direct	(B) Bracket
Speeds	Friction	
Max. Sprocket	28T	
Min. Sprocket	14T	
Rear Capacity	14T	
Total Capacity	24T	
Weight	255g	280g

Model No.	RDM2T SD	RDM2T SB	RDM15 SD	RDM15 SB
Cage Type	(S) Short	(S) Short	(S) Short	(S) Short
Mounting Type	(D) Direct	(B) Bracket	(D) Direct	(B) Bracket
Speeds	7 / 6-Speed		5-Speed	
Max. Sprocket	28T		28T	
Min. Sprocket	13T		14T	
Rear Capacity	15T		14T	
Total Capacity	27T		26T	
Weight	251g	276g	253g	278g

## Cassettes

Model No.	CSRX4 9AO (S)	CSRX4 9BQ (S)	CSRX4 9AP (S)	CSRX4 9BP (S)
Function	Super Fluid Drive		Fluid Drive Plus	
Speeds	9-Speed		9-Speed	
Number of Teeth	11-23T	12-25T	11-24T	12-24T
Sprocket Finish	(S) Sandblast Satin		(S) Sandblast Satin	
Gear Combination	11-12-13-14-15-17-19-21-23	12-13-14-15-17-19-21-23-25	11-12-13-14-16-18-20-22-24	12-13-14-15-16-18-20-22-24
Sprocket Material	Steel		Steel	
Light Weight Holes	○		○	
Spacer Material	Gold Aluminum w/ JUJU Logo		Gold Aluminum w/ JUJU Logo	
Chain Compatibility	6.6mm		6.6mm	
Weight	255g	260g	260g	270g

# Specifications **Cassettes**

Model No.	CSR94 9AO (S)	CSR94 9BQ (S)	CSR94 9AP (S)	CSR94 9BP (S)
Function	Super Fluid Drive		Fluid Drive Plus	
Speeds	9-Speed		9-Speed	
Number of Teeth	11-23T	12-25T	11-24T	12-24T
Sprocket Finish	(S) Sandblast Satin		(S) Sandblast Satin	
Gear Combination	11-12-13-14-15-17-19-21-23	12-13-14-15-17-19-21-23-25	11-12-13-14-16-18-20-22-24	12-13-14-15-16-18-20-22-24
Sprocket Material	Steel		Steel	
Light Weight Holes	○		○	
Spacer Material	Gray Engineering Polymers w/ JUJU Logo		Gray Engineering Polymers w/ JUJU Logo	
Chain Compatibility	6.6mm		6.6mm	
Weight	245g	250g	260g	270g

Model No.	CSR85 8AM (S)	CSR85 8BO (S)	CSR85 8BQ (S)	CSR85 8CQ (S)	CSR84 8BP (S)
Function	Fluid Drive Plus	Fluid Drive Plus		Fluid Drive Plus	
Speeds	8-Speed	8-Speed		8-Speed	
Number of Teeth	11-21T	12-23T	12-25T	13-25T	12-24T
Sprocket Finish	(S) Sandblast Satin	(S) Sandblast Satin		(S) Sandblast Satin	
Gear Combination	11-12-13-14-15-17-19-21	12-13-14-15-17-19-21-23	12-13-15-17-19-21-23-25	13-14-15-17-19-21-23-25	12-13-14-16-18-20-22-24
Sprocket Material	Steel	Steel		Steel	
Light Weight Holes	○	○		○	
Spacer Material	Gray Engineering Polymers w/ JUJU Logo	Gray Engineering Polymers w/ JUJU Logo		Gray Engineering Polymers w/ JUJU Logo	
Chain Compatibility	7.1~7.3mm	7.1~7.3mm		7.1~7.3mm	
Weight	225g	235g	245g	250g	260g

Model No.	CSR63 8AP (S)	CSR63 8BP (S)	CSR63 7AP (S)	CSR63 7BP (S)
Function	Fluid Drive Plus		Fluid Drive Plus	
Speeds	8-Speed		7-Speed	
Number of Teeth	11-24T	12-24T	11-24T	12-24T
Gear Combination	11-12-13-14-16-18-21-24	12-13-14-15-16-18-21-24	11-12-14-16-18-21-24	12-13-14-16-18-21-24
Sprocket Finish	(S) Sandblast Satin		(S) Sandblast Satin	
Sprocket Material	Steel		Steel	
Light Weight Holes	○		○	
Spacer Material	Engineering Polymers		Engineering Polymers	
Chain Compatibility	7.1~7.3mm		7.3mm	
Weight	255g	260g	230g	235g



# Specifications

## Freewheels

Model No.	MFR30 7CP (U)	MFR3S 7CP (U)	MFR2A 6DP (2)	MFR2A 5DP (2)	MFR05 6DP	MFR05 5DP
Function	Fluid Drive	Fluid Drive	Fluid Drive		Friction	
Speeds	7-Speed	7-Speed	6-Speed	5-Speed	6-Speed	5-Speed
Number of Teeth	13-24T	13-24T	14-24T	14-24T	14-24T	14-24T
Gear Combination	13-15-16-18-20-22-24	13-14-16-18-20-22-24	14-16-18-20-22-24	14-16-18-20-24	14-16-18-20-22-24	14-16-18-21-24
Sprocket Finish	(U) Zinc	(U) Zinc	(2)Brown+EDB		Black	
Sprocket Material	Steel	Steel	Steel		Steel	
Light Weight Holes	×	×	×		×	
Spacer Material	Resin	Resin	Resin		Resin	
Chain Compatibility	7.3mm	7.3mm	7.3~7.8mm	7.8mm	7.3~7.8mm	7.8mm
Weight	427g	430g	393g	355g	399g	357g

## Hubs

Model No.	HBRX6		HBRX7	HBR86		HBR87
	F	R9	R9	F	R9	R9
Cassette Carrier Type	---	Shimano	Campagnolo	---	Shimano	Campagnolo
Cassette Carrier Material	---	7075 Aluminum	7075 Aluminum	---	7075 Aluminum	7075 Aluminum
Cassette Carrier System	---	5 Pawls	5 Pawls	---	3 Pawls	3 Pawls
Hub Shell Material	6061 Aluminum	6061 Aluminum	6061 Aluminum	6061 Aluminum	6061 Aluminum	6061 Aluminum
Bearing	Sealed Cartridge(×2)	Sealed Cartridge(×4)	Sealed Cartridge(×4)	Sealed Cartridge(×2)	Sealed Cartridge(×4)	Sealed Cartridge(×4)
D-Dimension	---	41mm	41mm	---	41mm	41mm
Axle Diameter	9mm	10mm	10mm	9mm	10mm	10mm
Over Lock Dimension	100mm	130mm	130mm	100mm	130mm	130mm
Hub Axle Material	7075 Aluminum		7075 Aluminum	7075 Aluminum		7075 Aluminum
Hub Axle Length	110mm	140mm	140mm	110mm	140mm	140mm
Spoke Holes	32H		32H	32H		32H
Pitch Circle Diameter	38.5mm	R38mm / L48mm	R38mm / L48mm	38mm	45.5mm	45.5mm
Flange Width	68mm	57mm	57mm	68mm	58mm	58mm
QR Lever Material	6061 Aluminum		6061 Aluminum	6061 Aluminum		6061 Aluminum
QR Nut Material	6061 Aluminum		6061 Aluminum	6061 Aluminum		6061 Aluminum
QR Axle Material	Titanium		Titanium	SCM435		SCM435
QR Axle Length	112mm	144mm	144mm	112mm	144mm	144mm
Finish	JUJU Silver		JUJU Silver	JUJU Silver		JUJU Silver
Weight	107g	252g	250g	107g	274g	272g

# Specifications

## Brake Lever & Callper

Model No	BLR02	BLR03	BLR30
Material	Aluminum	Aluminum	Forged aluminum
Finish	Anodized or painted	Anodized or painted	Anodized or painted
Compatibility	Brake type: Caliper / Canti brakes Handlebar: 22.2-23.8mm	Brake type: Caliper / Canti brakes Handlebar: 22.2-23.8mm	Brake type: Caliper/Canti brakes Handlebar: 22.2-23.8mm
Weight	164g/pair	270g/pair	248g/pair
Note			Return spring, Rubber cover color Black

Model No	BCR03	BCR30
Material	Forged aluminum	Forged aluminum
Finish	Anodized or painted	High-polish silver anodized or painted
Dimension	52~72mm	39~49mm
Weight	168g/wheel	176g/wheel
Note		Power reinforcement with dual-pivot device

## Chains

Model	CNR10(S)
Speed	10 Speed
Pitch	1/2" x 11/128"
Pin Width	6.1mm
Pin Material	SCM425
Pin Power	300 kgf
Outer Plate Material	SCM430 / 0.9mm
Inner Plate Material	SCM430 / 0.9mm
Tensile Strength	1050 kgf
Finish	Chrome
Easy Link	Standard

## Chains (S)

Model	CNS22(D)	CNS10(D)	CNS10(B)
Speed	Inner Hub	Inner Hub	Inner Hub
Pitch	1/2" x 3/32"	1/2" x 1/8"	1/2" x 1/8"
Pin Width	7.8mm	8.6mm	8.6mm
Pin Material	SAE1022	SAE1022	SAE1022
Pin Power	150 kgf	150kgf	150kgf
Outer Plate Material	SAE1008 1.0mm	SAE1008 1.0mm	SAE1008 1.0mm
Inner Plate Material	SAE1008 1.0mm	SAE1008 0.9mm	SAE1008 0.9mm
Tensile Strength	900 kgf	1000kgf	1000kgf
Finish	Dacromet	Dacromet	Black

## Chains (X)

Model	CNX44(S)	CNX42(S)	CNX46(S)	CNX45(S)
Speed	BMX	BMX	BMX	BMX
Pitch	1/2" x 1/8"	1/2" x 1/8"	1/2" x 1/8"	1/2" x 1/8"
Pin Width	11.6mm	9.4mm	9.45mm	9.45mm
Pin Material	SAE1022	SAE1022	SCM420	SCM420
Pin Power	250kgf	200kgf	200kgf	200kgf
Outer Plate Material	SAE1035 1.5mm	SAE1035 1.2mm	SCM430 1.0mm	SCM430 1.0mm
Inner Plate Material	SAE1035 1.5mm	SAE1035 1.0mm	SCM430 1.0mm	SCM430 1.0mm
Tensile Strength	1500kgf	1200kgf	1300kgf	1300kgf
Finish	Chrome	Chrome	Chrome	Chrome



# Specifications

## Casings

Model No.	OCS SP	OCR SP	OCS 2S	OCR 2S	OCS 2P	OCR 2P	OCS 1P
Type	SP		2SP		2P		1P
Application	Shifter		Shifter / Brake		Shifter / Brake		Shifter / Brake
Shifter Compatibility	Index - R9/R8/R7/L3/LF		Index - R7/R6/R5/L3/LF		Friction - RF/LF		Friction - RF/LF
Outer Dimension	5mm	4mm	5mm	4mm	5mm	4mm	5mm
Inner Metal Lining	Straight Steel Wire		Curled Flat Steel Coil		Curled Flat Steel Coil		Curled Flat Steel Coil
Inner Plastic Lining	○		○		○		×
Ferrule Material	Brass	Plastic	Brass	Plastic	Brass	Plastic	Brass
Ferrule Finish	Chrome	Black	Chrome	Black	Chrome	Black	Chrome
Casing Length / Color	To Order		To Order		To Order		To Order



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