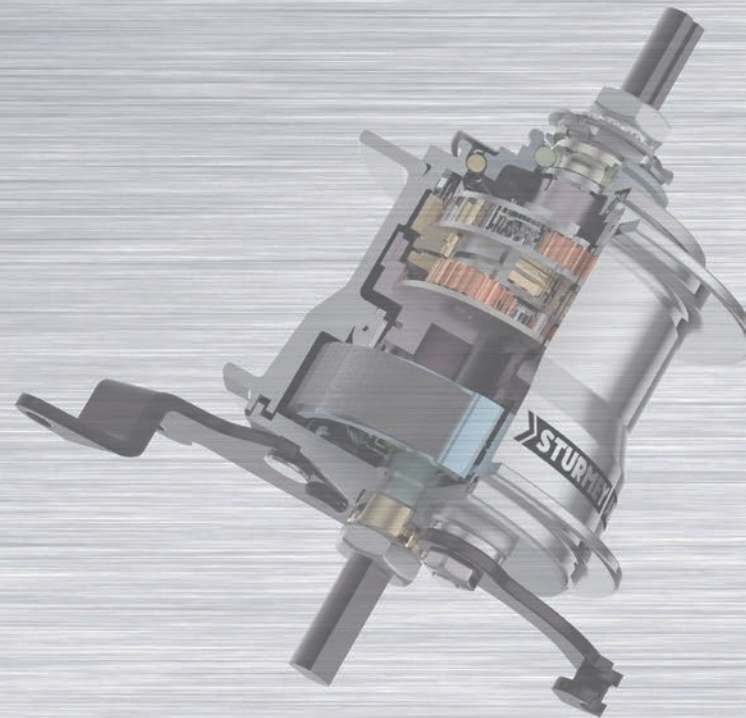






The Original And Best Since 1902

For 114 years, Sturmeley-Archer have been pioneers in the design and manufacture of internal gear hubs, hub brakes and dynohub lighting.



Henry Sturmeley

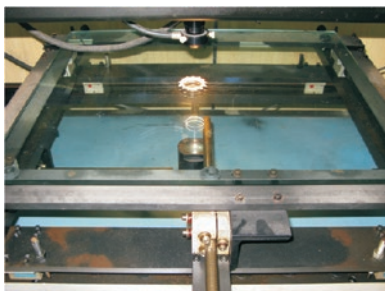


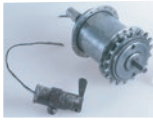
James Archer

This is a history of progressive research and development which has made cycling easier and safer.

This catalogue illustrates the complete range of Sturmeley-Archer cycle components, including the latest innovations.

www.sturmeley-archer.com www.sturmeley-archerheritage.com





1902
3-Speed Hub



1907
3-Speed Coaster



1910
X Gear Control



1910
Catalogue



1913
Tour de France



1918
KB 3-Speed
Drum Brake



1922
CC Single
Speed Coaster



1922
K Gear Control



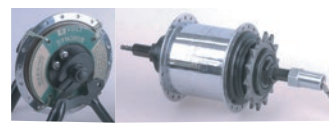
1929
Nürnberg, Germany



1931
Motorcycle
Gearbox Ad



1933
TF 2-Speed Fixed



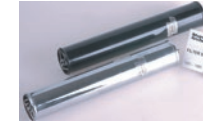
1938
Dynohub & TF 4-Speed



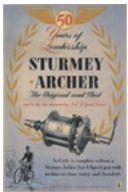
1939
Trigger Control



1946
ASC 3-Speed
Fixed



1951
Dry Battery Unit



1952
50 Years Poster



1953
The Original And Best
Poster



1955
Amsterdam, NL



1962
London-Cardiff
Record



1966
S5 5-Speed



1966
S2 Kick-Shift



1968
Chopper Shifters



1970
Lights



1972
Girl Poster



1977
SBF Front Drum Brake



1978
SAB 3-Speed
Drum Brake



1983
Dutch Ad



1983
S5/2 Alloy
5-Speed



1984
VT 70mm Front & AT3 3-Speed
70mm Rear



1985
Shifters



1988
AWC with Brass Brake



1992
Joint Trade Ad



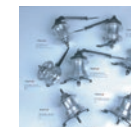
1995
AT5 5-Speed
Drum Brake



1997
AT7 7-Speed
Drum Brake



1997
Orion Shifter



1999
Summit Series



2000
New Home Advert

Dynohubs

Dynamo Hubs

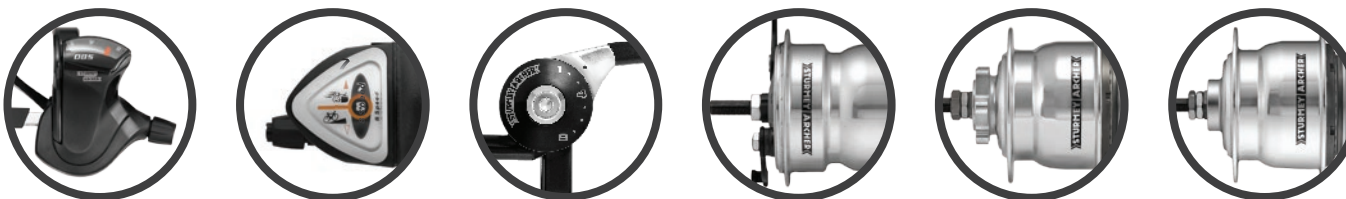
P.6



580 (W)

8-Speed Hubs

P.8



C50

5-Speed Hubs

P.11



540

4-Speed Hubs

P.14



C30

Rotary 3-Speed Hubs

P.17



S30, S35

Classic 3-Speed Hubs

P.20



SX, QS, TS

Cruiser, Tricycle, Quadricycle Hubs

P.23



S3X

Fixed 3-Speed

P.26



F30

Cassette Freehub 3-Speed

P.30



S20

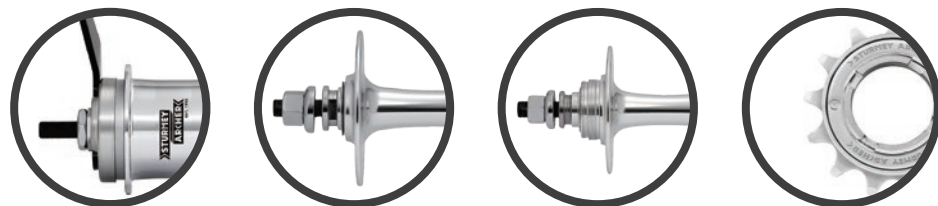
2-Speed Kick Shift

P.32



S1C, HBT, SF

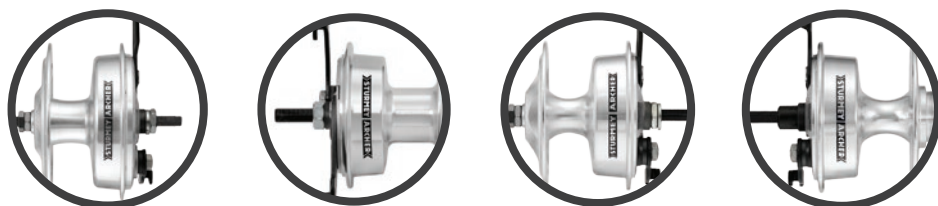
Single Speed Coaster Brake, Hubs, Freewheels *P.34*



Drum Brake Hubs

Front, Rear, Side Hubs

P.36



Front Cranksets

FCS, FCT

P.38



BL / CTS

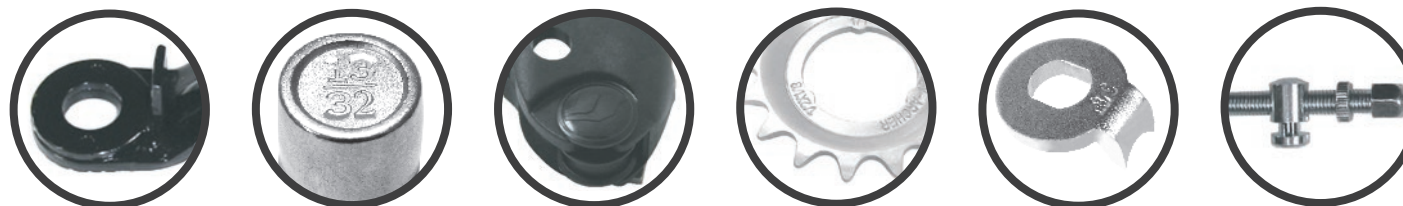
Brake Levers, Chain Tensioners

P.42

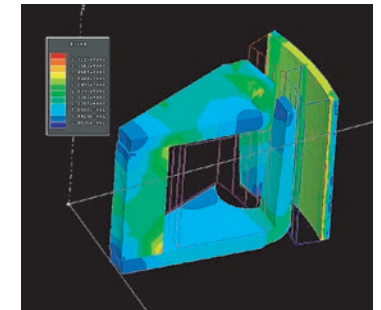
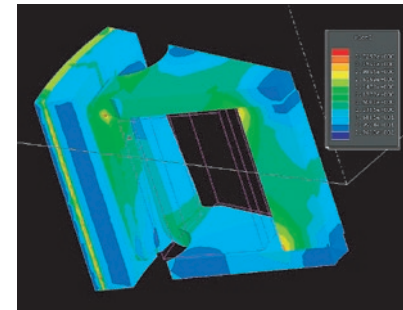
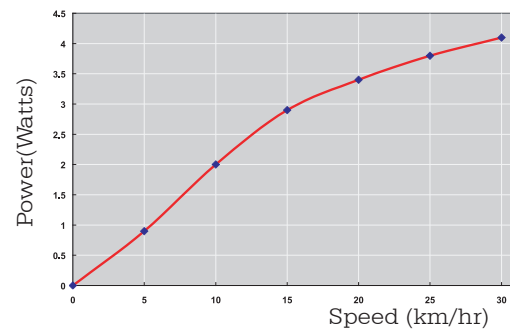
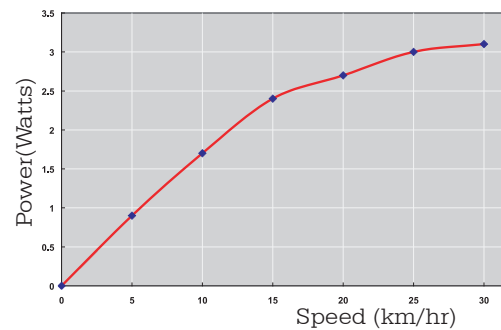
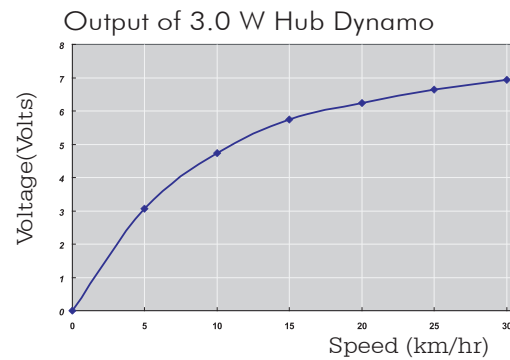
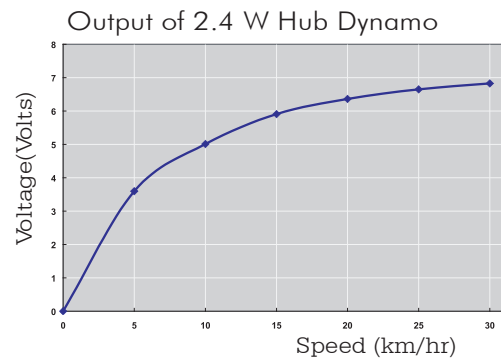


Parts

P.43



- Dynohub in 2.4W and 3.0W.
- Disc Brake Type available.
- Integrated 90mm and 70mm drum brakes available.
- CE & EN compliance.
- Aluminum hub shells.
- Sealed cartridge bearings.
- Low rolling resistance.
- Sealed against weather conditions.



Dynohub Drum Brake



XL-FDD

HDS93T 6V*3.0W

HDS92T 6V*2.4W

90mm Front Drum Brake Hub
[Sealed Cartridge Bearing]



X-FDD

HDS73T 6V*3.0W

HDS72T 6V*2.4W

70mm Front Drum Brake Hub
[Sealed Cartridge Bearing]



XL-SDD

HDH93T 6V*3.0W

HDH92T 6V*2.4W

90mm Side Drum Brake Dynohub
[Sealed Cartridge Bearing]



X-SDD

HDH73T 6V*3.0W

HDH72T 6V*2.4W

70mm Side Drum Brake Dynohub
[Sealed Cartridge Bearing]

Color
Option



[B]

3809.1105.003



HMN386

3809.0205.141

HMN434 [Stainless]

3809.0205.160

Dynohubs



[S]



[B]

HDS12 6V*2.4W

Front Dynohub

[Sealed Cartridge Bearing]



[A]



[B]

HDS22K 6V*2.4W

Front Disc Brake Dynohub

[Sealed Cartridge Bearing]



HMW527

3809.0405.078



HMW528

3809.0405.081



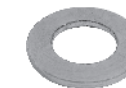
HMW560

3809.0405.161



HSE002

3810.0505.011

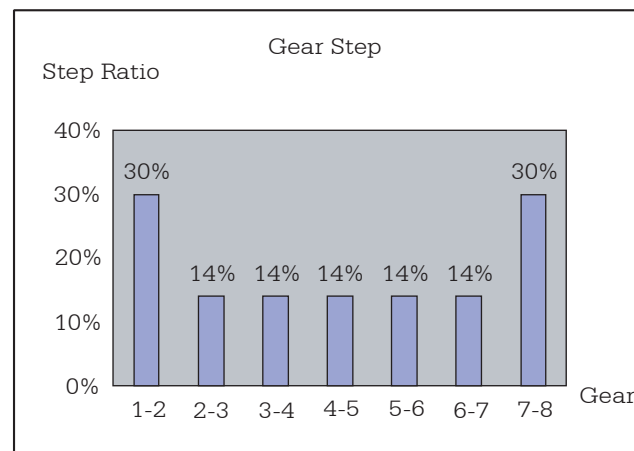
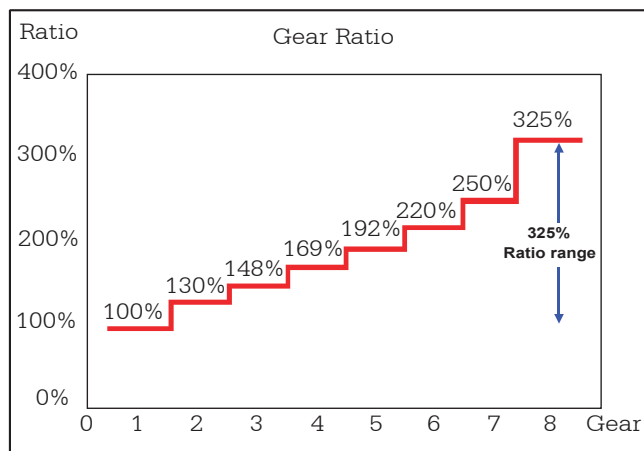


Washer 1/16"

HMW146

3809.0405.145

- 8-Speed with wide gear ratio of 325%.
- Logical gear steps of 30%, 14%, 14%, 14%, 14%, 14%, 30%.
- Patented modular technology.
- Rotary gear selector with no protrusions outside the frame.
- Quick and easy gear change with low change load.
- Direct drive in 1st gear allows use of smaller chainwheels.
- Available with integrated drum brake or use with disc brake.
- Polished aluminum hub shells.
- Twist shifter with light action and small rotating angle.
- Brake lever integrated with replaceable cartridge rubber padding.





DLS80
HSJ203



TSS86
HSJ980



SLS80-T [Ø22.2] HSJ204
SLS80-H [Ø31.8] HSJ205



X-RD8 [W]
8-Speed
70mm Drum Brake Hub



X-RK8 [W]
8-Speed
Disc Brake Hub



X-RF8 [W]
8-Speed Hub

Color
Option





Dust Cap

HSL882

3809.0805.032



25T CP 1/8" Dished

HSL822

CSIMW.25D



25T CP 1/8" Flat

HSL972

CSIMW.25F



23T CP 1/8" Dished

HSL821

CSIMW.23D



20T CP 3/32" Flat

HSL897

CSIMN.20F



Sprocket Circlip

HSL880 [Xylan]

3809.0707.003

25T CP 3/32" Dished

HSL867

CSIMN.25D

25T CP 3/32" Flat

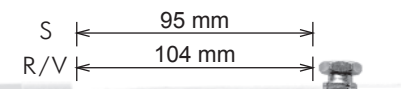
HSL971

CSIMN.25F

23T CP 3/32" Dished

HSL868

CSIMN.23D



Rotary Cable Anchorage

HSL977

3899.000.643



Fulcrum Lever

HSJ956

3810.0190.007



Fulcrum Lever Cilp

HSJ957

3810.0190.008



Dome Nut

HMN433 [Stainless]

3809.0205.159



Lock Washer

13/32" x 6mm x 9.7mm

HMW534 [Xylan]

3809.0410.013



Lock Washer

13/32" x 4mm x 9.5mm

HMW529 [Xylan]

3809.0407.015

Fitting Sets

 [Reversed / Standard (Angled)
End]

HFXW8.SSSS



HSL880



HSL882



HSJ956



HSJ957



HMW529 (x 2)



HMN433 (x 2)

[Vertical End]

HFXW8.SSVS



HSL880



HSL882



HSJ956



HSJ957

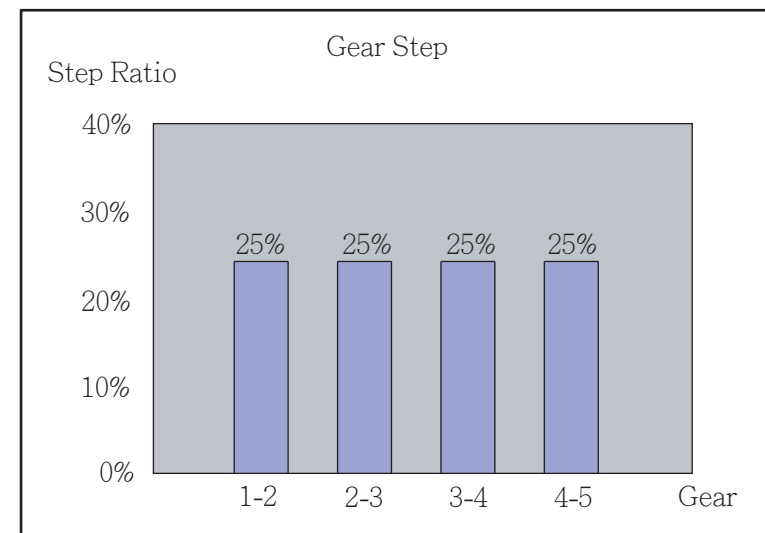
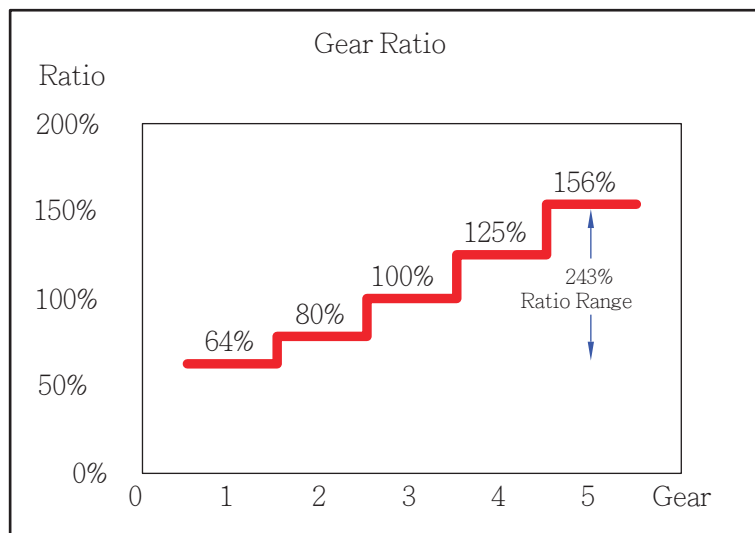


HMW534 (x 2)



HMN433 (x 2)

- 5-Speed with gear ratio of 243%.
- Even gear steps of 25%, 25%, 25%, 25%.
- Rotary gear selector with no protrusions outside the frame.
- Designed for heavy duty use.
- Aluminum Hub Shell.
- Available with integrated 90mm and 70mm drum brakes, disc brake, freewheel, and EN approved coaster brake.





TSC50
HSJ218



SLC50-T
HSJ201



DLC50
HSJ206



RXL-RD5
5-Speed
90mm Drum Brake Hub



RX-RD5
5-Speed
70mm Drum Brake Hub



RX-RK5
5-Speed
Disc Brake Hub



RX-RF5
5-Speed Hub



RX-RC5
5-Speed
Coaster Brake Hub



Dust Cap
HSL982
3809.0805.061



Sprocket Circlip
HSL981 [Xylan]
3809.0707.004



Sprocket



Rotary Cable Anchorage
HSL977
3899.000.643



Fulcrum Lever
HSJ212
3810.0190.013



Fulcrum Lever Clip
HSL983
3809.0705.038
HSL996 [Stainless]
3809.0705.041



Dome Nut
HMN388
3809.0205.140
HMN433 [Stainless]
3809.0205.159



Lock Washer
13/32" x 4mm x 9.5mm
HMW518
3809.0405.118
HMW529 [Xylan]
3809.0407.015



Lock Washer
13/32" x 6mm x 9.7mm
HMW534 [Xylan]
3809.0410.013

Flat 1/8" (CP)	17T	CSIRW.17F	HSL993	Dished 1/8"	19T	CSIRW.19D	HSL999
	18T	CSIRW.18F	HSL991	(CP)	20T	CSIRW.20D	HSL200
	19T	CSIRW.19F	HSL992	Dished 3/32"	19T	CSIRN.19D	HSL201
	20T	CSIRW.20F	HSL997	(CP)	20T	CSIRN.20D	HSL202
	24T	CSIRW.24F	HSL203				
Flat 3/32" (CP)	17T	CSIRN.17F	HSL986				
	18T	CSIRN.18F	HSL987				
	19T	CSIRN.19F	HSL988				

Fitting Sets

[Reversed / Standard (Angled)
End]

HFI C5 .SSSS
HFXC5 .SSSS



HSL981
HSL981



HSL982
HSL982



HSJ212
HSJ212



HSL983
HSL996



HMW518 (x2)
HMW529 (x2)



HMN388 (x2)
HMN433 (x2)

[Vertical End]

HFI C5 .SSVS
HFXC5 .SSVS



HSL981
HSL981



HSL982
HSL982



HSJ212
HSJ212



HSL983
HSL996

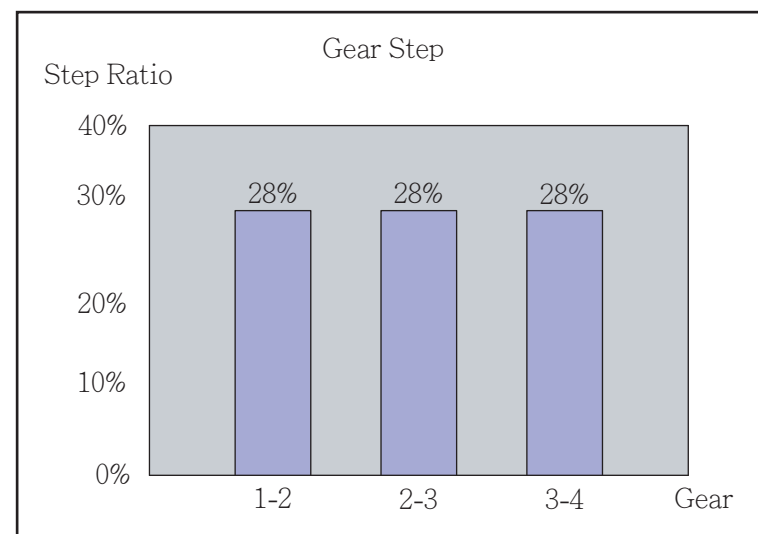
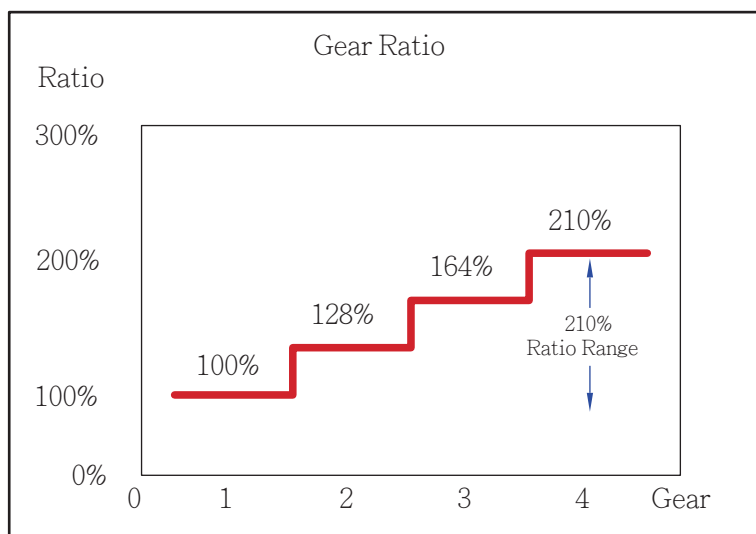
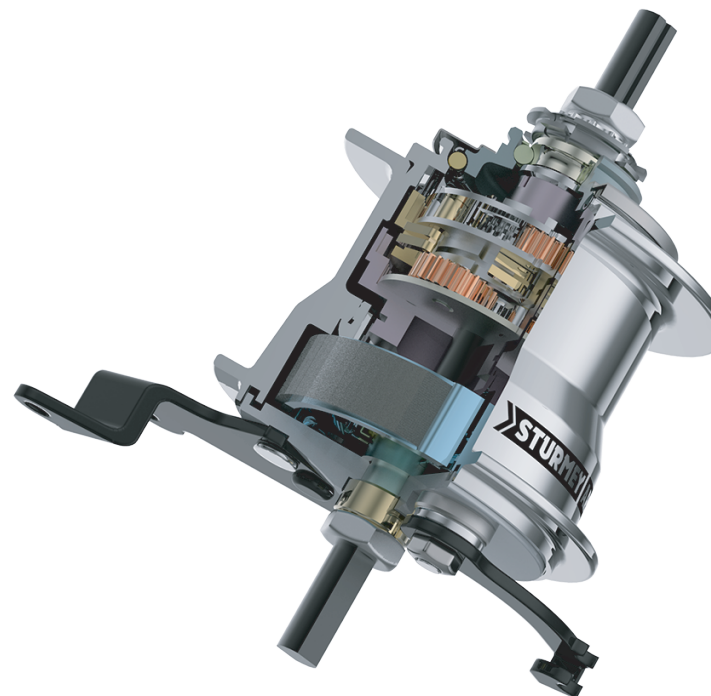


HMW534 (x2)
HMW534 (x2)



HMN388 (x2)
HMN433 (x2)

- 4-Speed with gear ratio of 210%.
- Even gear steps of 28%, 28%, 28%.
- Patented modular technology.
- Rotary gear selector with no protrusions outside the frame.
- Direct drive in 1st gear allows use of smaller chainwheels.
- Available with integrated 70mm drum brake, disc brake, and freewheel.





TSS42
HSJ200



SLS40-T
HSJ208



SLS40-H
HSJ209



DLS40
HSJ207



X-RD4
4-Speed
70mm Drum Brake Hub



X-RK4
4-Speed
Disc Brake Hub



X-RF4
4-Speed Hub



S40 Fulcrum Lever Set
HSJ213
3899.0000.691



Sprocket Circlip
HSL721
3809.0705.005
HSL879 [Xylan]
3809.0707.002



HSL984
3809.0805.059



Sprocket Options (p.47)



HSL990
3809.0705.027
HSL206 [Stainless]
3809.0705.044



Lock Washer
M10 x 4mm x 9.5mm
HMW552
3809.0405.156



Lock Washer
M10 x 4mm x 9.5mm
HMW561
3809.0405.157



Lock Washer
M10 x 4mm x 9.5mm
HMW562
3809.0405.158



Dome Nut M10
HMN442
3809.0205.164



Rotary Cable Anchorage
HSL977
3899.0000.643

HMW551 [Xylan]
3809.0407.023

HMW563 [Xylan]
3809.0407.026

HMW564 [Xylan]
3809.0407.027

HMN441 [Stainless]
3809.0205.163

Fitting Sets

[Reversed End]

HFIC4 .SSSS
HFXC4 .SSSS



HSL721
HSL879



HSL984
HSL984



HSJ213
HSJ213



HSL990
HSL206



HMW552 (x2)
HMW551 (x2)



HMN442 (x2)
HMN441 (x2)

[Standard (Angled) End]

HFIC4 .SSAS
HFXC4 .SSAS



HSL721
HSL879



HSL984
HSL984



HSJ213
HSJ213



HSL990
HSL206



HMW561
HMW563

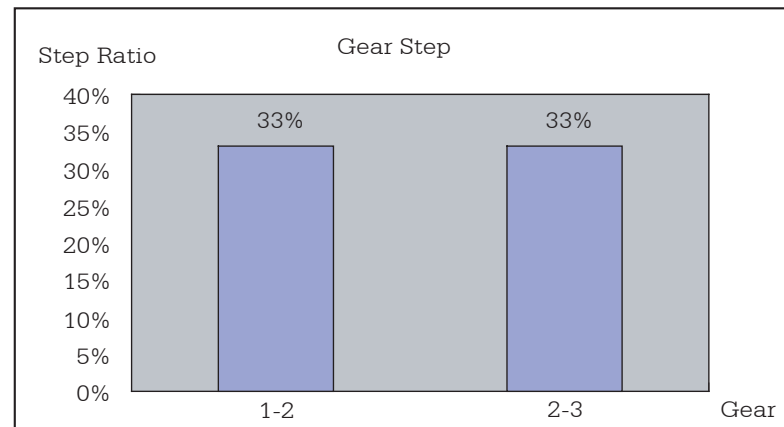
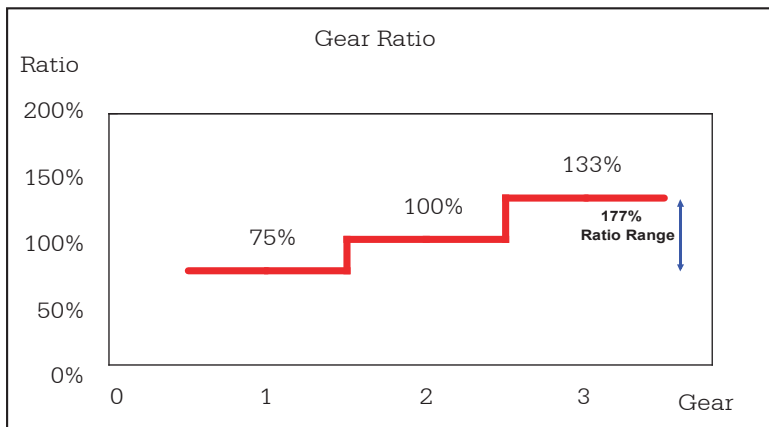


HMW562
HMW564



HMN442 (x2)
HMN441 (x2)

- 3-Speed with standard gear ratio of 177%.
- Gear steps of 33% and 33%.
- Rotary gear selector change mechanism between the rear forks .
- Available with integrated 90mm or 70mm drum brake, disc brake and freewheel.
- Aluminum shells.
- Twist shifter and trigger shifter option.





DLC30
HSJ210



TSC30
HSJ976

TSC34
W/adjuster



SLC30-T
HSJ216

SLC30-H
HSJ217



RX-RD3
3-Speed
70mm Drum Brake Hub



RS-RF3
3-Speed Hub



RXL-RD3
3-Speed
90mm Drum Brake Hub



RS-RK3
3-Speed
Disc Brake Hub



Sprocket Options (p.47)



Sprocket Circlip

HSL721

3809.0705.005

HSL879 [Xylan]

3809.0707.002

 Rotary Cable Anchorage
HSL977

3899.0000.643

C30 Cable Adjuster

HSL872

3899.0000.204



C30 Fulcrum Lever Set for Standard (Angled) End

HSJ221

3899.0000.622

HSJ222 [Stainless]

3899.0000.623



C30 Fulcrum Lever Set for Reversed / Vertical End

HSJ932

3899.0000.190

HSJ220 [Stainless]

3899.0000.621



3.2mm

HMN406

3809.0205.151

HMN417 [Xylan]

3809.0212.005



5mm

HMN446 [Xylan]

3809.0212.029



Lock Washer

3/8" x 4mm x 9.5mm

HMW530 [Xylan]

3809.0407.002

HMW521

3809.0405.121


 Lock Washer
V-type

HMW558

3809.0410.014



HMN387

3809.0205.142

HMN435 [Stainless]

3809.0205.161

Fitting Sets

[Reversed End]

 HFIC3 .SSSS
HFXC3 .SSSS

 HSL721
HSL879

 HSJ932
HSJ220

 HMN406
HMN417

 HMW521 (x2)
HMW530 (x2)

 HMN387 (x2)
HMN435 (x2)

[Standard (Angled) End]

 HFIC3 .STSS
HFXC3 .STSS

 HSL721
HSL879

 HSJ221
HSJ222

 HMN406
HMN417

 HMW521 (x2)
HMW530 (x2)

 HMN387 (x2)
HMN435 (x2)

[Vertical End]

 HFIC3 .SSVS
HFXC3 .SSVS

 HSL721
HSL879

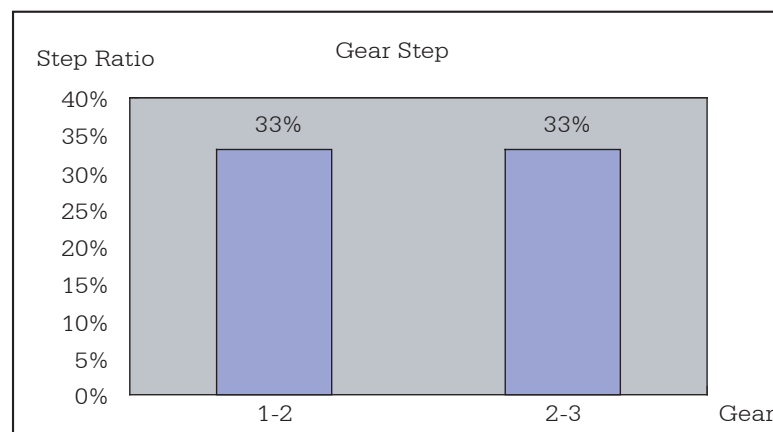
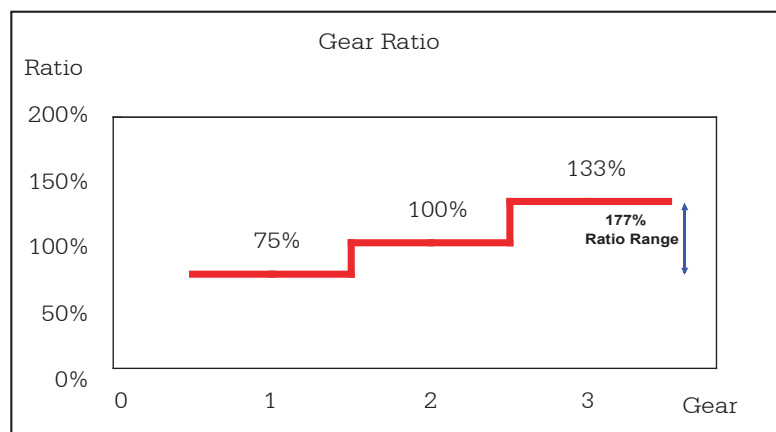
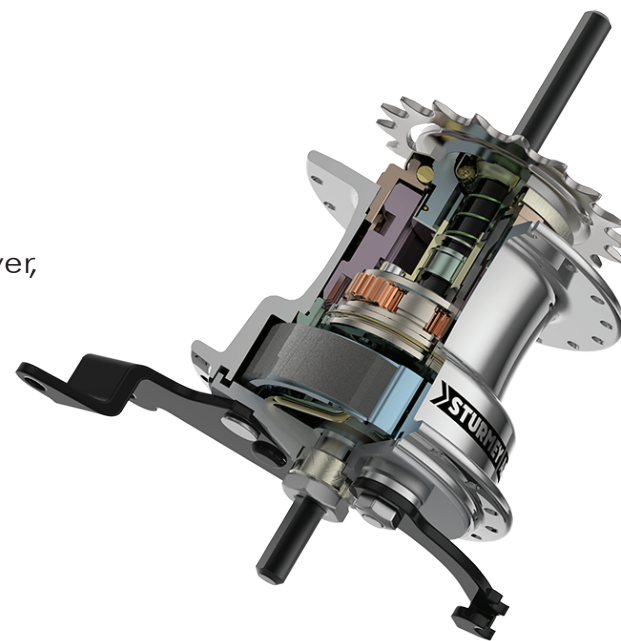
 HSJ932
HSJ220

 HMN406
HMN417

 HMW558 (x2)
HMW558 (x2)

 HMN387 (x2)
HMN435 (x2)

- Classic 3-Speed with standard gear ratio of 177%.
- Gear steps of 33% and 33%.
- Disc brake hub in aluminum shell with 135mm O.L.D.
- Available as standard hub, integrated 90mm & 70mm drum brake.
- EN approved coaster brake.
- Available in aluminum or steel hub shells.
- Wide selection of gear controls including thumb, trigger, twist, stick lever, and bar end shifters.



S30**3-Speed Alloy Hubs**

SLS30-B
HSJ963
Bar End



SLS30-T [ø 22.2] HSJ962
H [ø 31.8] HSJ995
Thumb Shifter



SLS30-P [ø 27.2]
HSJ993
Seat Post



SLS30-S [ø 28.6mm]
HSJ981
Brazed On



DLS30
HSJ943



XL-RD3
3-Speed
90mm Drum Brake Hub



X-RD3
3-Speed
70mm Drum Brake Hub



TSS37
HSJ978



S-RK3 / S-RK3 [N]
3-Speed
Disc Brake Hub



S-RC3 [II]
3-Speed
Coaster Brake Hub



S-RF3 / S-RF3 [N]
3-Speed Hub
N [9-Spline Driver]

Color
Option





TSS36
HSJ977



TSS33
HSJ939



SLS3C
HSJ762
Classic Trigger



SLS3N
HSJ823
Thumb Shifter



AWC [II]
3-Speed
Coaster Brake Hub



AW
3-Speed Hub

SX**QS**

SX-RK3
3-Speed
Disc Brake Hub



SX-RB3
3-Speed
Band Brake Hub



QS-RC5
5-Speed
Reversible
Coaster Brake Hub



QS-RC3
3-Speed
Reversible
Coaster Brake Hub



CLS31
HSJ944



CLS30
HSJ945



CLS3S
HSJ946



CLS3M
HSJ947





TS-RC5
5-Speed
Coaster Brake Hub



TS-RC3
3-Speed
Coaster Brake Hub



T-S2C
2-Speed Kick Shift
Coaster Brake Hub

T-S1C
Single Speed
Coaster Brake Hub



TS-RF5
5-Speed Hub



TS-RF3
3-Speed Hub



TS-RB3
3-Speed
Band Brake Hub

S30**S35****SX****TS****QS**

Classic Parts

Fitting Sets

[Non-Coaster 148mm]

HFIS3.2HHA



HSA126

HSL721



HMN420

HSL884



HMN128



HMW526 (x 2)

[Non-Coaster 163mm]

HFIS3.3CSS



HSA315

HSL721



HMN129

HSL711



HMN388



HMW518 (x 2)

[Non-Coaster 163mm]

HFIS3.3SSS



HSA315

HSL721



HSA650

HMN128

HSJ905

HSA620



HMN388



HMW518 (x 2)

HFXS3.3SSS

HSA315

HSL879

HSA650

HMN411

HSJ905

HSA620

HMN433

HMW529 (x 2)

[Coaster Brake 163mm]

HFIS3.4CSS



HSA316

HSL721



HMN129

HSL711



HMN388



HMW518 (x 2)

[Coaster Brake 163mm]

HFIS3.4SSS



HSA316

HSL721



HSA650

HMN128

HSJ905

HSA620

HMN388

HMW518 (x 2)

HFXS3.4SSS

HSA316

HSL879

HSA650

HMN411

HSJ905

HSA620

HMN433

HMW529 (x 2)

[Non-Coaster 175mm]

[Coaster Brake 175mm]

HFIS3.5CSS



HSA420

HSL721



HMN129



HSL711



HMN388



HMW518 (x 2)

[Non-Coaster 175mm]

[Coaster Brake 175mm]

HFIS3.5SSS



HSA420

HSL721



HSA650

HMN128

HSJ905

HSA620

HMN388

HMW518 (x 2)

HFXS3.5SSS

HSA420

HSL879

HSA650

HMN411

HSJ905

HSA620

HMN433

HMW529 (x 2)

[Non-Coaster 185mm]

HFIS3.9HSV



HSA715

HSL721



HMN420



HSL884



HMN388



HMW534 (x 2)

[5 Spd 175/185mm]

HFIS5.YSSS



HSA585

HSL721



HSA650

HMN128

HSJ905

HSA620

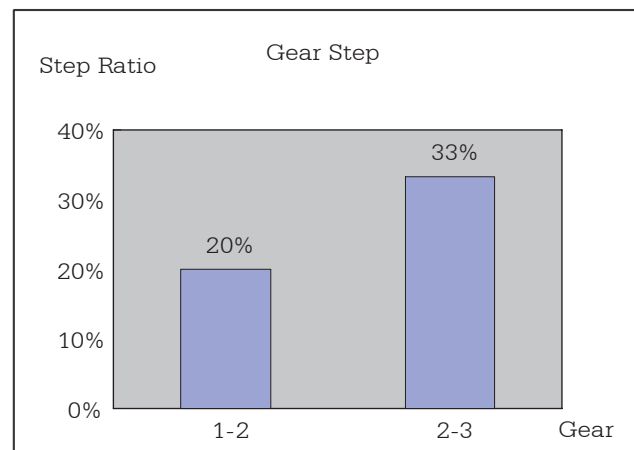
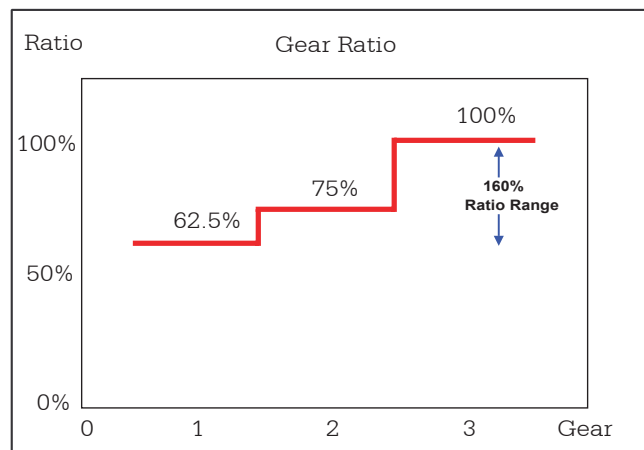


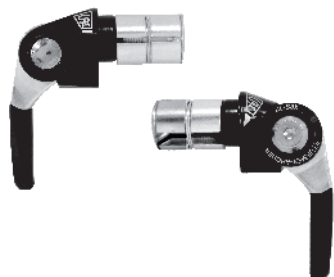
HMN388



HMW518 (x 2)

- 3-Speed fixed gear with close gear ratio of 160%.
- Gear steps of 20% and 33%.
- Threaded driver compatible for non-fixed 3-speed conversion with standard single speed freewheel.
- Polished and anodized aluminum shell in option colors.
- Aluminum lock-ring and spacers achieve chain lines of 42, 43, 44, and 45mm.
- 1/8" sprocket available from 12T~22T in chrome plated finish.
- 3/32" sprocket available with 13T~22T in chrome plated finish.
- Aluminum thumb shifter for bar end, flat bar, or seat post mount.
- Matching track style chainwheels in 130mm or 144mm PCD from 42~48T.
- Matching track style front hub that is polished and anodized in option colors.





SLS3X-B
HSJ966
Bar End



SLS3X-T [φ 22.2] HSJ965
Thumb Shifter
SLS3X-H [φ 31.8] HSJ990



SLS3X-P [φ 27.2]
HSJ991
Seat Post



SLS3X-S [φ 28.6mm]
HSJ988
Brazed On



S3X
3-Speed
Fixed Gear Hub

Color Options



[B]



[G]



[R]



[2]



S3X Black [B]
3-Speed
Fixed Gear Hub



S3X Gold [G]
3-Speed
Fixed Gear Hub



S3X Red [R]
3-Speed
Fixed Gear Hub



S3X Blue [2]
3-Speed
Fixed Gear Hub



Mark Orange I
HSA652
3810.0605.036

Mark Orange II
HSA713
3810.0605.037

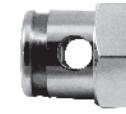
**Standard Guide Nut Only*



Mark White I
HSA653
3810.0605.038

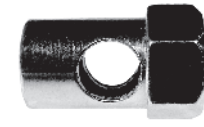
Mark White II
HSA714
3810.0605.039

**Standard Guide Nut Only*



Guide Nut - Short
HMN420
3809.0225.003

HMN436[Xylan]
3809.0225.010



Guide Nut - Standard
HMN129
3809.0213.001

HMN418 [Xylan]
3809.0217.002



Lock Washer
13/32" x 4mm x 9.5mm
HMW518
3809.0405.118
HMW529 [Xylan]
3809.0407.015



Nut
HMN128
3809.0205.144
HMN411 [Xylan]
3809.0212.011



Dome Nut
HMN388
3809.0205.140
HMN433 [Stainless]
3809.0205.159



Dust Cap
HSL701
3809.0810.001



Lock-Ring
HSL896
3809.0812.005



Sprocket Spacer
Options
(Page 48)



CSIX Sprocket
Options
(Page 48)

Fitting Sets

[Standard 120mm]



HFS3X.SSSS

HSA652

HSL701

HSL896

HMW538 (x 2)

HMW537 (x 2)

HMN420

HMN388

HMW518 (x 2)

[Wide 130mm]



HFS3X.WSSS

HSA653

HSL701

HSL896

HMW538 (x 2)

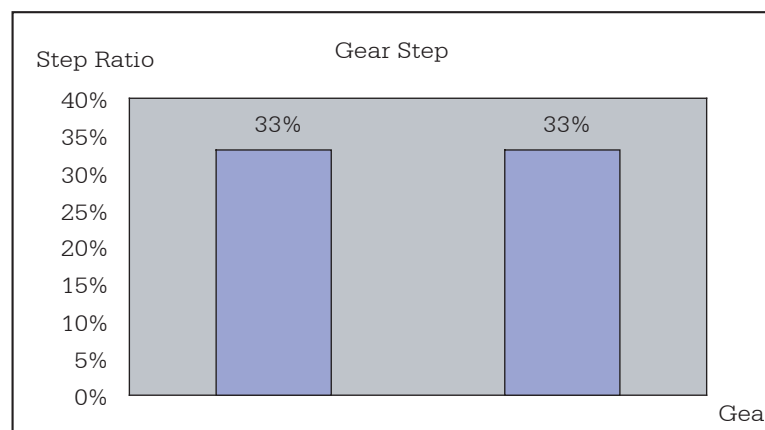
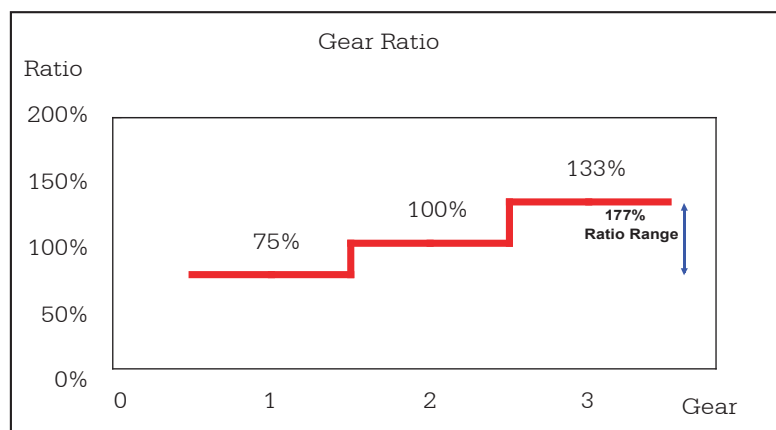
HMW537 (x 2)

HMN420

HMN388

HMW518 (x 2)

- 3-Speed internal gear cassette freehub with gear ratio of 177%.
- Gear steps of 33% and 33%.
- Available as standard hub or disc brake hub.
- Compatible with standard MTB/ATB 9 and 8-speed cassettes.
- Compatible with standard MTB/ATB left hand shifters for front triple chainwheel.
- Compatible with standard 135mm frame dropouts.
- Polished and anodized aluminum shell in alloy silver or black.





CS-RF3
3-Speed
Cassette Freehub



CS-RF3 Black [B]
3-Speed
Cassette Freehub



CS-RK3
3-Speed
Disc Brake Cassette Freehub



CS-RK3 Black [B]
3-Speed
Disc Brake Cassette Freehub

Fitting Sets

HFIF3.8SSV



HSA716



HSL922
3809.0812.013
Dust Cap



HMN420



HSL884

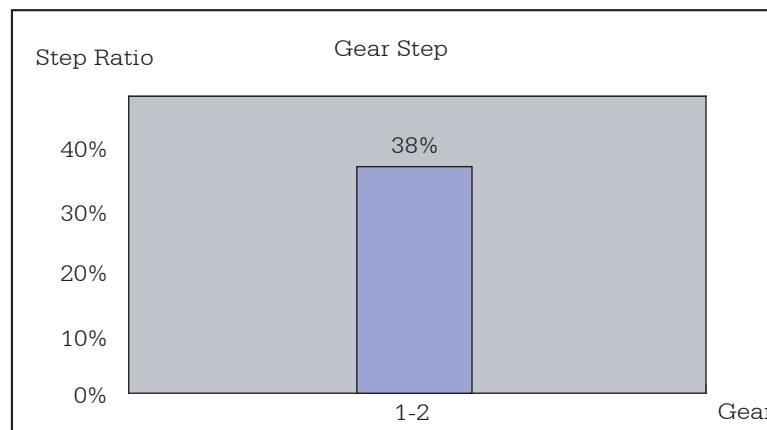
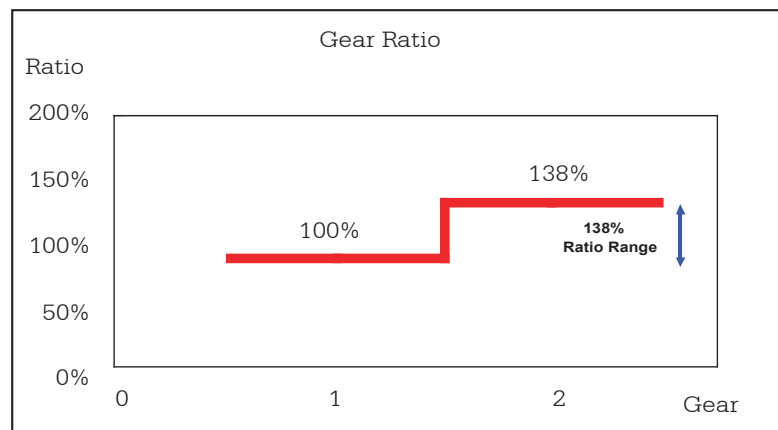
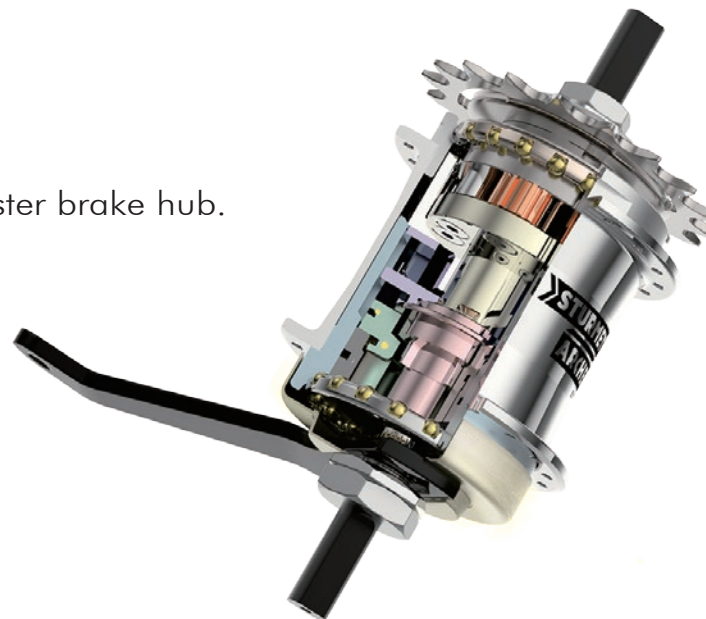


HMN388



HMW534 (x 2)

- 2-Speed internal gear hub with gear ratio of 138%.
- Kick Shift between gears without shifters.
- No shifter cable and wear related issues.
- Available as standard hub, disc brake hub or integrated coaster brake hub.
- Available in aluminum polished and anodized hub shell.





S2
2-Speed Kick Shift Hub



S2C
2-Speed Kick Shift
Coaster Brake Hub



S2K
2-Speed Kick Shift
Disc Brake Hub

Color Options



[B]



[G]



[R]



[2]

Fitting Sets

[Freewheel/ Disc]



HSL721

HFS20.S0SS



HMW518 (x 2)



HMN388 (x 2)

[Coaster]



HSL721

HFS2C.SCSS



HSL921
3809.0812.009
Dust Cap



HMW127 (x2)
3809.0405.014
Sprocket Spacer



HMW518 (x 2)



HMN388 (x 2)

- Single coaster brake designed for adult bikes.
- High precision, low friction, roller operated brake.
- Chromoly M10 axle.
- Aluminum hub shells with anodized color options.



S1C
Single Speed
Coaster Brake Hub

Color Options



[B]



[G]



[R]



[2]



Sprocket Options (Page 47)



HBT30-F
[M9 Axle]



HBT30-R
[For Fix & Freewheel]
[M10 Axle]
S[120/165L] / T[120/175L] / R[135/175L]

Color Options



[B]



[G]

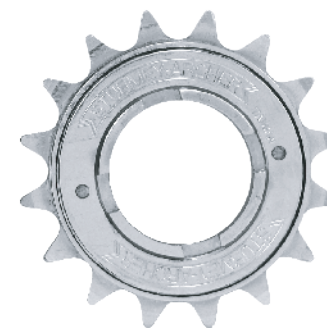


[R]



[2]

HBT20-R
[For Freewheel]
[M10 Axle]
S[120/165L] / T[120/175L] / R[135/175L]



SFX30
[M30 x 1.0]

SFS30
[BC1.37]



M10 Dome Nut
HMN441 [Stainless]
3809.0205.163



M9 Dome Nut
HMN434 [Stainless]
3809.0205.160



HBT Lockring
HSL970
3809.0890.003



M9
HMN426
3899.0000.471

M10
HMN427
3899.0000.472

	1/8"	3/32"
13T	SFX30.W13	SFX30.N13
14T	SFX30.W14	SFX30.N14
15T	SFX30.W15	SFX30.N15
16T	SFS30.W16	SFS30.N16
17T	SFS30.W17	SFS30.N17
18T	SFS30.W18	SFS30.N18
19T	SFS30.W19	SFS30.N19
20T	SFS30.W20	SFS30.N2
21T	SFS30.W21	SFS30.N21
22T	SFS30.W22	SFS30.N22

Drum Brake Hubs

Front & Rear



XL-FD
90mm Front
Drum Brake Hub



X-FD
70mm Front
Drum Brake Hub



X-RDC
70mm Rear
Drum Brake for Cassettes
S [Nuttet]



X-RD
70mm Rear
Drum Brake for Freewheel
R[Single Speed]
7[7-Speed]

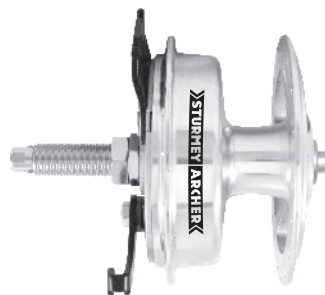
Color
Option



Drum Brake Hubs



XL-SD [Q]
THH90 L
90mm Left
Drum Brake Hub
Q [QR Axle Type]



XL-SD [Q]
THH90 R
90mm Right
Drum Brake Hub
Q [QR Axle Type]

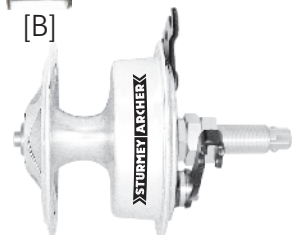


XL-SD [S/C/B]
THH80 L
90mm Left
Drum Brake Hub
S [Solid Axle 130mm]
C [Solid Axle 100mm]
B [Solid Axle 90mm]



XL-SD [S/C/B]
THH80 R
90mm Right
Drum Brake Hub
S [Solid Axle 130mm]
C [Solid Axle 100mm]
B [Solid Axle 90mm]

Color
Option



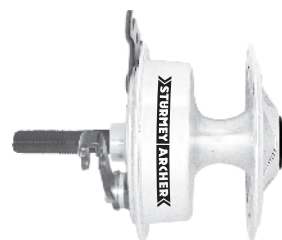
X-SD [Q]
THH60 L
70mm Left
Drum Brake Hub
Q [QR Axle Type]



X-SD [Q]
THH60 R
70mm Right
Drum Brake Hub
Q [QR Axle Type]



X-SD [S/C/B]
THH50 L
70mm Left
Drum Brake Hub
S [Solid Axle 130mm]
C [Solid Axle 100mm]
B [Solid Axle 90mm]



X-SD [S/C/B]
THH50 R
70mm Right
Drum Brake Hub
S [Solid Axle 130mm]
C [Solid Axle 100mm]
B [Solid Axle 90mm]

Left & Right Side

* for Side Dynohub Drum Brakes, please refer to page 7.

XL-SD Hub Shell 36H Assy. (w/ 6001-ZZ x2)	HSB520	3899.0000.406
XL-SD Hub Shell 32H Assy. (w/ 6001-ZZ x2)	HSB541	3899.0000.502
XL-SD Hub Shell 28H Assy. (w/ 6001-ZZ x2)	HSB540	3899.0000.501

90mm Left Brake Plate Assy. (w/ QR Base)	HSB519	3899.0000.669
90mm Right Brake Plate Assy. (w/ QR Base)	HSB518	3899.0000.670
Quick Release Axle [Stainless]	HSL994	3809.0205.166
90mm Left Brake Plate Assy.	HSB517	3899.0000.604
90mm Right Brake Plate Assy.	HSB516	3899.0000.607
Inner Washer "A2"	HMW539	3809.0405.110
Outer Washer	HMW533	3809.0405.036
130 mm Solid Axle	HSL881	3805.0205.030
100 mm Solid Axle	HSL885	3805.0205.029
90mm Solid Axle	HSL898	3805.0205.035
M12 Nut	HMN421	3809.0205.124
M12 Nut w/ Non-Slip	HMN422	3809.0205.119
Rubber End Cap	HSL979	3810.0505.040

X-SD Hub Shell 36H Assy. (w/ 6001-ZZ x2)	HSB500	3899.0000.393
X-SD Hub Shell 32H Assy. (w/ 6001-ZZ x2)	HSB539	3899.0000.500
X-SD Hub Shell 28H Assy. (w/ 6001-ZZ x2)	HSB538	3899.0000.488

70mm Left Brake Plate Assy. (w/ QR Base)	HSB514	3899.0000.667
70mm Right Brake Plate Assy. (w/ QR Base)	HSB515	3899.0000.668
Quick Release Axle [Stainless]	HSL994	3809.0205.166
70mm Left Brake Plate Assy. "A2"	HSB530	3899.0000.665
70mm Right Brake Plate Assy. "A2"	HSB531	3899.0000.666
Inner Washer "A2"	HMW539	3809.0405.110
Outer Washer	HMW533	3809.0405.036
130 mm Solid Axle	HSL881	3805.0205.030
100 mm Solid Axle	HSL885	3805.0205.029
90mm Solid Axle	HSL898	3805.0205.035
M12 Nut	HMN421	3809.0205.124
M12 Nut w/ Non-Slip	HMN422	3809.0205.119
Rubber End Cap	HSL979	3810.0505.040

Front Cranksets FCS



FCS720 42T no CGs

FCS721 42T W. Steel CGs

FCS722 42T W. Alloy OCG & Steel ICG

[Steel Chainring]

[Forged Alloy Crank]

[CSM435 Bolts & Nuts]

[Compatible Chain 3/32"]

FCS740 44T no CGs

FCS741 44T W. Steel CGs

FCS742 44T W. Alloy OCG & Steel ICG

[Steel Chainring]

[Forged Alloy Crank]

[CSM435 Bolts & Nuts]

[Compatible Chain 3/32"]

FCS750 44T no CGs

FCS752 44T W. Alloy CGs

[Alloy Chainring]

[Forged Alloy Crank]

[CSM435 Bolts & Nuts]

[Compatible Chain 3/32"]

[Black]



FCSS1 54T

[Double Chain Guard]

[Black]



FCSS2 56T

[Single Chain Guard]

[Black]

[CNC Option]

Front Cranksets FCS



FCS440 44T no CGs

FCS441 44T W. Steel CGs

FCS442 44T W. Alloy OCG & Steel ICG
[Steel Chainring]

[Forged Alloy Crank]

[CSM435 Bolts & Nuts]

[Compatible Chain 3/32"]

FCS450 44T no CGs

FCS452 44T W. Alloy CGs

[Alloy Chainring]

[Forged Alloy Crank]

[CSM435 Bolts & Nuts]

[Compatible Chain 3/32"]



[Black]

FCS602 42T

FCS612 42T

FCS603 33T

FCS613 33T

FCS606 36T

FCS616 36T

FCS608 38T

FCS618 38T

[3/32"]

[1/8"]

[Forged Alloy Crank]

2[Ø92mm Cover Ring]

5[Ø95mm Cover Ring]

Front Cranksets FCT



AD [Alloy + Black]



BBRS

FCT88 48T [Integrated Through Axle]
 FCT86 46T [6061 Forged Alloy Crank]
 FCT84 44T [7075 Chainring]
 FCT82 42T [7075 Bolts & Nuts]
 [PCD 144mm]
 [Polished Anodized Finish Crank]
 [Black Anodized + CNC Chainring]

BD
[Black + Black]GD
[Gold + Black]RD
[Red + Black]2D
[Blue + Black]

AA [Alloy + Alloy]

FCT62 42T [6061 Forged Alloy Crank]
 FCT64 44T [7075 Chainring]
 FCT66 46T [7075 Bolts & Nuts]
 FCT68 48T [PCD 144mm]
 [Polished Anodized Finish Crank & Chainring]

BA
[Black + Alloy]GA
[Gold + Alloy]RA
[Red + Alloy]2A
[Blue + Alloy]

AD [Alloy + Black]

FCT62 42T [6061 Forged Alloy Crank]
 FCT64 44T [7075 Chainring]
 FCT66 46T [7075 Bolts & Nuts]
 FCT68 48T [PCD 144mm]
 [Polished Anodized Finish Crank]
 [Black Anodized + CNC Chainring]

BD
[Black + Black]GD
[Gold + Black]RD
[Red + Black]2D
[Blue + Black]

Front Cranksets FCT



AD [Alloy + Black]



BD [Black + Black]

- FCT42 42T [6061 Forged Alloy Crank]
- FCT44 44T [7075 Chainring]
- FCT46 46T [7075 Bolts & Nuts]
- FCT48 48T [PCD 144mm]
- [Polished Anodized Finish]
- [Black Anodized + CNC Chainring]



AD [Alloy + Black]



BD [Black + Black]

- FCT22 42T [6061 Forged Alloy Crank]
- FCT24 44T [7075 Chainring]
- FCT26 46T [SCM435 Bolts & Nuts]
- FCT28 48T [PCD 130mm]
- [Polished Anodized Finish]
- [Black Anodized + CNC Chainring]



- FCT12 42T [6061 Forged Alloy Crank]
- FCT14 44T [7075 Chainring]
- FCT16 46T [SCM435 Bolts & Nuts]
- FCT18 48T [PCD 130mm]
- [Sandblast Anodized Matt Black Finish]
- [Black Anodized + CNC Chainring]



- BBS18
- [Steel Axle]
- [Alloy RH & LH Cups]
- [Alloy Sleeve]
- [Eng. Polymer Stopper]
- [Sealed Cartridge Bearings]



- BBS15
- [Steel Axle]
- [Steel RH & LH Cups]
- [Steel Sleeve]
- [Chrome Plated]
- [Eng. Polymer Stopper]
- [Sealed Cartridge Bearings]



- BAS15
- BB Axle Bolt
- [M8]

Other Components



S[Silver]



B[Black]

BLS92

[For Drum/Roller/Cantilever]

BLM92

[For V-Brake]



S[Silver]



B[Black]

BLS81

[For Drum/Roller/Cantilever]

BLM81

[For V-Brake]



S[Silver]



B[Black]

BLS81 -P

[For Drum/Roller/Cantilever]
Parking Brake Button



CTS8X [B]



CTS8X [S]



CTS86



CTS70
[Steel Cage]

Parts



Nuts | Washers

Front Hub



M9

Front Hub

XL-FD X-FD
XL-FDD X-FDD
HBT30-F HDS10
HDS20

Rear Hub
X-RD



Hex15

HMN386
3809.0205.141
HMN434 [Stainless]
3809.0205.160



Hepta

Anti-Theft
HMN449 [Stainless]
3809.0295.003



Hex15

HMN426
3899.0000.471



HMW528
3809.0405.081



Washer 1/32"
HMW550 (0.8mm)
3809.0405.013

Front Hub

3/8"

BF SBF

Rear Hub

RS-RF3, RXL-RD3
RX-RD3, RS-RK3



Hex15

HMN387
3809.0205.142
HMN435 [Stainless]
3809.0205.161



Hepta

Anti-Theft
HMN448 [Stainless]
3809.0295.002



Hex15

HMN118
3809.0205.150
HMN416 [Xylan]
3809.0212.020



Washer 1/16"
HMW146 (1.6mm)
3809.0405.145



Washer 1/8"
HMW129 (3.2mm)
3809.0405.123

Rear Hub



13/32"

All Rear Hubs

[Excluding C30, S40,
S1C, HBT, X-RDC]



Hex15

HMN388
3809.0205.140
HMN433 [Stainless]
3809.0205.159



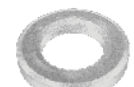
Hepta

Anti-Theft
HMN447 [Stainless]
3809.0295.001



Hex15

HMN128
3809.0205.144
HMN411 [Xylan]
3809.0212.011



Washer 3/16"
HMW483 (4.8mm)
3809.0405.162

M10

HBT30-R
X-RDC
S40
S1C



Hex15

HMN441 [Stainless]
3809.0205.163



Hepta

Anti-Theft
HMN450 [Stainless]
3809.0295.004



Hex15

HMN427
3899.0000.472



Washer 1/4"
HMW484 (6.4mm)
3809.0405.150

Classic Parts

Indicators

3 Speed



Mark I
HSA125
3810.0605.019



Mark II
HSA126
3810.0605.020



Mark III
HSA315
3810.0605.021



Mark IV
HSA316
3810.0605.022



Mark V
HSA420
3810.0605.023



Mark VI
HSA615
3810.0605.024



Mark VIII
HSA716
3810.0605.040



Mark IX
HSA715
3810.0605.031

5 Speed



Mark Yellow
HSA585
3810.0605.026



Mark Green
HSA651
3810.0605.034



Mark Blue
HSA317
3810.0605.025



Mark Red
HSA490
3810.0605.027



Mark Purple
HSA717
3810.0605.032



Mark Navy Blue
HSA712
3810.0605.033

Cable Anchorage & Adjusters



HSL759
3899.0000.098



HSJ925
3899.0000.166

HSJ926
3899.0000.152 (Slotted)



HSJ542
3104.0505.037



HSJ828
3104.0405.002



HSJ954
3899.0000.353 (Aluminum)

HSJ998
3899.0000.570 (Aluminum / Slotted)

Shifter Cable/Casing Set



Twist Shifter
HSJ882 (1420mm)



SLS3N, SLS5N, SLW5N Shifter
HSJ802 (1400mm)



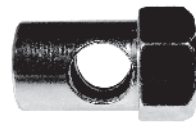
Orion Shifter
HSJ883 (1420mm)



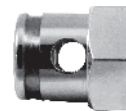
Classic Trigger
HSJ102 (1420mm)
HSJ101 (530mm)



Classic Parts



Guide Nut-Standard
HMN129
3809.0213.001
HMN418 [Xylan]
3809.0217.002



Guide Nut - Short
HMN420
3809.0225.003
HMN436 [Xylan]
3809.0225.010



Cover for Short Guide Nut
HSL884
3810.0505.028



HSL906 [Silver]
3810.0507.003



Indicator Guard
HSL711
3810.0505.002



Gear Selector Guide Full Cover
HSA620
3810.0505.042



Gear Selector Guide
HSA650
3899.0000.384



Fulcrum Lever
HSJ842
3810.0105.012



Fulcrum Lever with Locating Washer
HSJ905
3810.0105.011



Nut (8mm)
HMN128
3809.0205.144
HMN411 [Xylan]
3809.0212.011



Nut (6mm)
HMN440
3809.0205.157

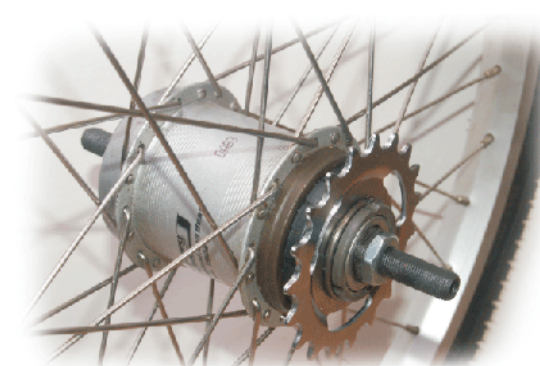


Locating Washer
HSJ929
3810.0105.008



CP

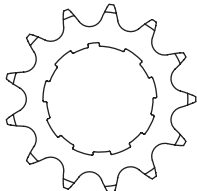
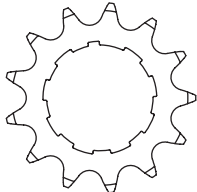
Sprocket Teeth	24	22	21	20	19	18	17	16	15	14	13
Sprocket Thickness 1/8"											
Deep Dished											
					CSISW.19P HSL965 [CP]	CSISW.18P HSL924 [CP]	CSISW.17P HSL827 [CP]				
Dished											
	CSISW.24D HSL876 [CP]	CSISW.22D HSL830 [CP]	CSISW.21D HSL832 [CP]	CSISW.20D HSL834 [CP]	CSISW.19D HSL836 [CP]	CSISW.18D HSL838 [CP]	CSISW.17D HSL840 [CP]				
Flat											
	CSISW.22F HSL942 [CP]	CSISW.21F HSL941 [CP]	CSISW.20F HSL940 [CP]	CSISW.19F HSL842 [CP]	CSISW.18F HSL844 [CP]	CSISW.17F HSL846 [CP]	CSISW.16F HSL848 [CP]	CSISW.15F HSL850 [CP]	CSISW.14F HSL852 [CP]	CSISW.13F HSL854 [CP]	
Sprocket Thickness 3/32"											
Dished											
					CSISN.19D HSL858 [CP]	CSISN.18D HSL860 [CP]	CSISN.17D HSL862 [CP]				
Flat											
	CSISN.22F HSL951 [CP]	CSISN.21F HSL950 [CP]	CSISN.20F HSL949 [CP]	CSISN.19F HSL948 [CP]	CSISN.18F HSL947 [CP]	CSISN.17F HSL946 [CP]	CSISN.16F HSL864 [CP]	CSISN.15F HSL945 [CP]	CSISN.14F HSL944 [CP]	CSISN.13F HSL943 [CP]	



9-Spline Sprockets / Spacers

Classic Parts

9-Spline Sprockets

 1/8" x 1/2" Flat [CP]	13T	CSIXW.13F	HSL887
	14T	CSIXW.14F	HSL888
	15T	CSIXW.15F	HSL889
	16T	CSIXW.16F	HSL890
	17T	CSIXW.17F	HSL891
	18T	CSIXW.18F	HSL892
	19T	CSIXW.19F	HSL908
	20T	CSIXW.20F	HSL909
	21T	CSIXW.21F	HSL910
	22T	CSIXW.22F	HSL911
 3/32" x 1/2" Flat [CP]	12T	CSIXN.12F	HSL893
	13T	CSIXN.13F	HSL894
	14T	CSIXN.14F	HSL912
	15T	CSIXN.15F	HSL913
	16T	CSIXN.16F	HSL914
	17T	CSIXN.17F	HSL915
	18T	CSIXN.18F	HSL916
	19T	CSIXN.19F	HSL917
	20T	CSIXN.20F	HSL918
	21T	CSIXN.21F	HSL919
	22T	CSIXN.22F	HSL920

9-Spline Spacers

Sprocket Spacer 2mm (12T Only)	HMW536	3809.0406.009
Sprocket Spacer 3mm (12T Only)	HMW535	3809.0406.010
Sprocket Spacer 2mm (13-22T)	HMW538	3809.0406.011
Sprocket Spacer 3mm (13-22T)	HMW537	3809.0406.012

Sprocket Fittings

Sprocket Circlip
HSL721

3809.0705.005

HSL879 [Xylan]

3809.0707.002

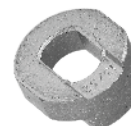
Sprocket C-clip
HSL900

3809.0705.017

Plastic Sprocket Dustcap
HSL871

3809.0805.025

Lockwasher For Chain Adjuster



13/32" x 6mm x 9.7mm

HMW534 [Xylan]

3809.0410.013

[Vertical Dropout]



13/32" x 4mm x 9.5mm

HMW518

3809.0405.118

HMW529 [Xylan]

3809.0407.015



13/32" x 1.8mm x 9.5mm

HMW515

3809.0405.120



13/32" x 2mm x 9.5mm

HMW526

3809.0405.119

HMW544 [Xylan]

3809.0410.005



Lock Washer

M10 x 4mm x 9.5mm

HMW552

3809.0405.140

HMW551 [Xylan]

3809.0407.023



Lock Washer

M10 x 4mm x 9.5mm

HMW561

3809.0405.157

HMW563 [Xylan]

3809.0407.026



Lock Washer

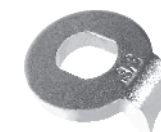
M10 x 4mm x 9.5mm

HMW562

3809.0405.158

HMW564 [Xylan]

3809.0407.027



3/8" x 4mm x 9.5mm

HMW521

3809.0405.121

HMW530 [Xylan]

3809.0407.002



3/8" x 6mm x 9.7mm

HMW558

3809.0410.014

[Vertical Dropout]

Brake Cable Assembly



BSD1X

[Ø1.6 Slick Stainless Cable + 2P Casing + Xylan Adjuster Assembly]

HSK765 / BSD1X.0900.BA0 / 900mm

HSK766 / BSD1X.0950.BA0 / 950mm

HSK767 / BSD1X.1000.BA0 / 1000mm

HSK768 / BSD1X.1600.BA0 / 1600mm

HSK769 / BSD1X.1650.BA0 / 1650mm



BSD01 [BF]

[Ø1.6 Galvanized Cable + 2P Casing]

HSK740 / BSD01.0900.BA0 / 900mm



BSD05

[Ø1.6 Galvanized Cable + 2P Casing]

HSK730 / BSD05.0900.BA0 / 900mm

HSK764 / BSD05.0950.BA0 / 950mm

HSK763 / BSD05.1000.BA0 / 1000mm

HSK736 / BSD05.1600.BA0 / 1600mm



Brake Adjuster Assembly III

HSB307

3899.0000.172

HSB537 [Xylan]

3899.0000.715

[BF]



Brake Adjuster Assembly I

HSB422

3899.0000.154

HSB536 [Xylan]

3899.0000.457

[SBF, SAB3, AB3, AB5, X-FD, XL-FD, XL-FDD, X-RD3, XL-RD3, X-RD5, XL-RD5, X-RD8]



Pinch Bolt

HSK715

3899.0000.124

Brake Arm Clips

Front Brake Arm Clips



17.5mm (11/16")
HSL702
3899.0000.106



22.2mm (7/8")
HSL703
3899.0000.107



Rubber Sleeve
HSL770
3810.0505.005

Rear Brake Arm Clips



15.5mm
HSL767
3899.0000.115



17.0mm (43/64")
HSL907
3899.0000.658



22.2mm (7/8")
HSL769
3899.0000.116



15.9mm (5/8")
HCB101
3899.0000.133



17.0mm (43/64")
HSL791
3899.0000.150



19.1mm (3/4")
HSL761
3899.0000.659

Fulcrum Clips & Pulleys

Fulcrum Clips



Top tube and Down tube



25.4mm (1")
HSJ512
3899.0000.100
HSJ515 included



28.6mm (1-1/8")
HSJ514
3899.0000.176
HSJ515 included

Chainstay and Backstay



15.9mm (5/8")
HSJ553
3899.0000.660



17.9mm (45/64")
HSJ548
3899.0000.101



19.1mm (3/4")
HSJ753
3899.0000.697



15.9mm (5/8")
HSJ775
3899.0000.108
HSJ515 included



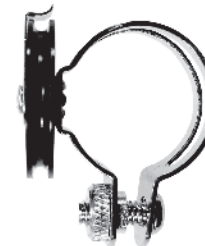
Fulcrum Sleeve
HSJ515
3810.0505.003

Pulleys

Top tube and Down tube



28.6mm (1-1/8")
HSJ521
3899.0000.105



25.4mm (1")
HSJ520
3899.0000.104



TLSL1
 TLSL1.0000.0A0
 Sprocket & Lock Ring Removal Tool
 For HBT Rear Hub



HTR149
 3899.0000.627
 Anti-Theft Dome Nut Tool



HTR147
 3810.0725.005
 Ratchet Ring Removal Tool



TLSF2
 TLSF2.0000.0A0
 Single Freewheel Removal Tool



HTR150
 3810.0725.012



HTR140
 3810.0790.002
 14mm Cone Spanner



HTR141
 3810.0790.003
 16mm Cone Spanner



HTR142
 3810.0790.004
 23mm Cone Spanner



HTR145
 3810.0790.008
 Classic Ball Ring Spanner



HTR144
 3810.0790.006
 S2C Ball Ring Spanner



HTR146
 3810.0790.009
 S80(W) Ball Ring Spanner



HTR139
 3810.0790.007
 Dynohub Cap Spanner



HTR148
 3810.0790.010
 C50 Ball Ring Spanner



HTR151
 3810.0790.011
 S40 Ball Ring Spanner

Note

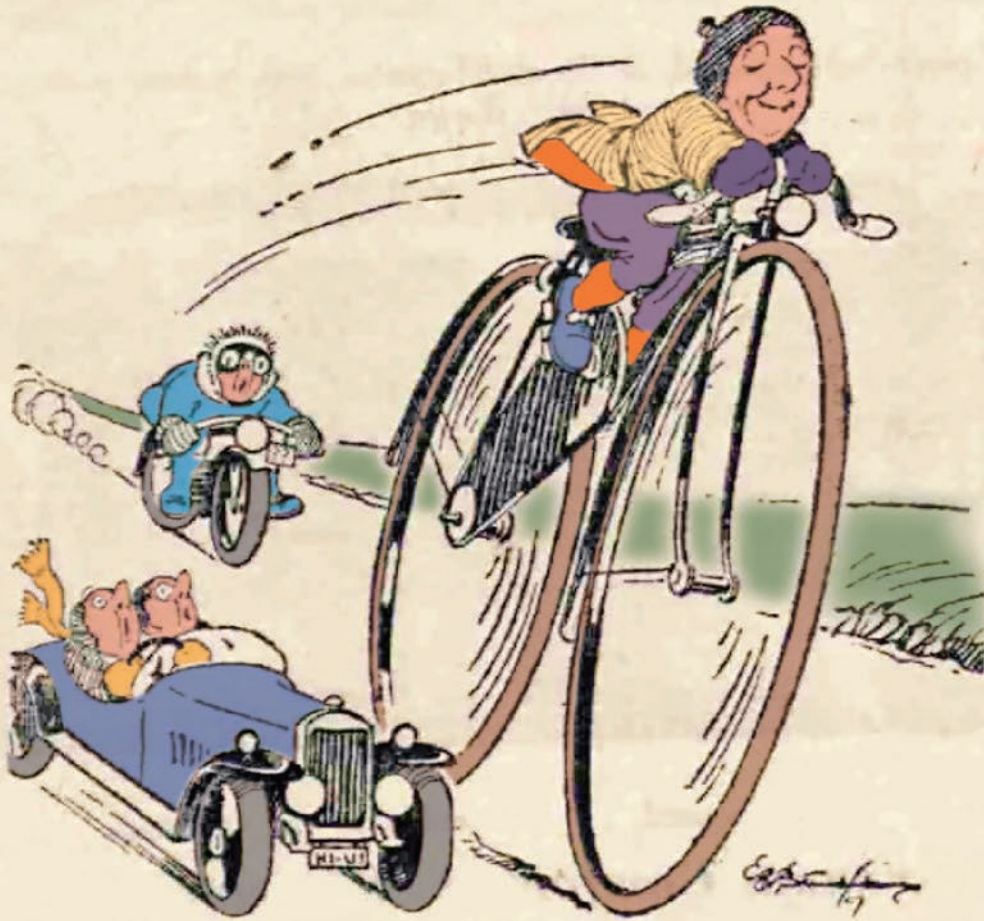
Note

Note

Note

Look for Sun Race 2016 -2017 catalogue.





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E-mail: info@sunraceusa.com

www.sunrace.com
www.sturmeY-archER.com
www.sturmeY-archERheritage.com

Brake Levers						
Model Name	BLS81				BLM81	
Model Number	BLS81.LNN0.SA0	BLS81.RNN0.SA0	BLS81.LNNP.SA0	BLS81.RNNP.SA0	BLM81.LNN0.SA0	BLM81.RNN0.SA0
Side	Left Hand	Right Hand	Left Hand	Right Hand	Left Hand	Right Hand
Brake Compatibility	Drum / Roller / Cantilever		Drum / Roller / Cantilever		V-Brake / Mechanical Disc	
Parking Brake Lock Pin	✕		●		✕	
Lever Length	4-Finger		4-Finger		4-Finger	
Lever Material	Aluminum		Aluminum		Aluminum	
Lever Comfort Pad	Replaceable Rubber Cartridge BLP80		Replaceable Rubber Cartridge BLP80		Replaceable Rubber Cartridge BLP80	
Bracket Material	Aluminum		Aluminum		Aluminum	
Cable Adjuster	Anodized Aluminum		Anodized Aluminum		Anodized Aluminum	
Reach Adjuster	Dacromet Chromoly		Dacromet Chromoly		Dacromet Chromoly	
Bracket Bolt	Dacromet Chromoly		Dacromet Chromoly		Dacromet Chromoly	
Clamp Screw	Dacromet Chromoly		Dacromet Chromoly		Dacromet Chromoly	
Clamp Diameter	22.2mm		22.2mm		22.2mm	
Finish	(S) Painted Silver / (B) Black		(S) Painted Silver / (B) Black		(S) Painted Silver / (B) Black	
Average Weight	125g	125g	130g	130g	125g	125g

Model Name	BLS92		BLM92	
Model Number	BLS92.LNN0.SA0	BLS92.RNN0.SA0	BLM92.LNN0.SA0	BLM92.RNN0.SA0
Side	Left Hand	Right Hand	Left Hand	Right Hand
Brake Compatibility	Drum / Roller / Cantilever		V-Brake / Mechanical Disc	
Parking Brake Lock Pin	✕		✕	
Lever Length	4-Finger		4-Finger	
Lever Material	Aluminum		Aluminum	
Lever Comfort Pad	Replaceable Rubber Cartridge BLP92		Replaceable Rubber Cartridge BLP92	
Bracket Material	Aluminum		Aluminum	
Cable Adjuster	Anodized Aluminum		Anodized Aluminum	
Reach Adjuster	Dacromet Chromoly		Dacromet Chromoly	
Bracket Bolt	Dacromet Chromoly		Dacromet Chromoly	
Clamp Bolt	Dacromet Chromoly		Dacromet Chromoly	
Clamp Diameter	22.2mm		22.2mm	
Finish	(S) Painted Silver / (B) Black		(S) Painted Silver / (B) Black	
Average Weight	139g	139g	139g	139g

Dynohub Drum Brakes

Model Name	XL-FDD		X-FDD	
Model No.	HDS93.TBSS.AA2	HDS92.TBSS.AA2	HDS73.TBSS.AA2	HDS72.TBSS.AA2
Model No. (High Polish)	HDS93.TBSS.HA2	HDS92.TBSS.HA2	HDS73.TBSS.HA2	HDS72.TBSS.HA2
Voltage	6V	6V	6V	6V
Output	3.0W	2.4W	3.0W	2.4W
Brake Type	90mm Drum Brake		70mm Drum Brake	
Hub Shell Material	A356 Aluminum		A356 Aluminum	
Bearing Type	Sealed Cartridge		Sealed Cartridge	
Hub Axle Diameter	9mm		9mm	
Hub Axle Length	140mm	140mm	140mm	140mm
Over Locknut Dimension	100mm	100mm	100mm	100mm
Spoke Holes	(B) 36H	(B) 36H	(B) 36H	(B) 36H
Pitch Circle Diamter	109.0mm	109.0mm	89.8mm	89.8mm
Flange Width	59.4mm	59.4mm	60mm	60mm
Center to Flange	Right	31.4mm	31.4mm	30.0mm
	Left	28.0mm	28.0mm	30.0mm
Spoke Compatibility	13G & 14G	13G & 14G	13G & 14G	13G & 14G
Finish	Natural Alloy	Natural Alloy	Natural Alloy	Natural Alloy
Weight	1,350g	1,350g	1,220g	1,220g

Model Name	XL-SDD		XL-SDD		X-SDD		X-SDD	
Model No. (Right Side)	HDH93.RBLS.AA3	HDH92.RBLS.AA3	HDH93.RBSS.AA3	HDH92.RBSS.AA3	HDH73.RBLS.AA3	HDH72.RBLS.AA3	HDH73.RBSS.AA3	HDH72.RBSS.AA3
Voltage	6V	6V	6V	6V	6V	6V	6V	6V
Output	3.0W	2.4W	3.0W	2.4W	3.0W	2.4W	3.0W	2.4W
Brake Type	90mm Drum Brake		90mm Drum Brake		70mm Drum Brake		70mm Drum Brake	
Side	(R) Right	(R) Right	(R) Right	(R) Right	(R) Right	(R) Right	(R) Right	(R) Right
Hub Axle Diameter Type	12mm		12mm		12mm		12mm	
Hub Axle Length	143mm	143mm	124mm	124mm	143mm	143mm	124mm	124mm
Axle Protrusion Length	69mm	69mm	50mm	50mm	69mm	69mm	50mm	50mm
Hub Shell Material	A356 Aluminum		A356 Aluminum		A356 Aluminum		A356 Aluminum	
Bearing Type	Sealed Cartridge		Sealed Cartridge		Sealed Cartridge		Sealed Cartridge	
Spoke Holes	(B) 36H	(B) 36H	(B) 36H	(B) 36H	(B) 36H	(B) 36H	(B) 36H	(B) 36H
Pitch Circle Diamter	109.0mm	109.0mm	109.0mm	109.0mm	89.4mm	89.4mm	89.4mm	89.4mm
Flange Width	59.4mm	59.4mm	59.4mm	59.4mm	67.9mm	67.9mm	67.9mm	67.9mm
Spoke Compatibility	13G & 14G	13G & 14G	13G & 14G	13G & 14G	13G & 14G	13G & 14G	13G & 14G	13G & 14G
Finish	Natural Alloy	Natural Alloy	Natural Alloy	Natural Alloy	Natural Alloy	Natural Alloy	Natural Alloy	Natural Alloy
Weight	1,393g	1,393g	1,383g	1,383g	1,200g	1,200g	1,190g	1,190g

Dynohub

Model Name		HDS10	HDS20
Model No. (Silver)		HDS12.FBSS.SA0	HDS22.KBSS.AA1
Model No. (Black)		HDS12.FBSS.BA0	HDS22.KBSS.BA1
Voltage		6V	6V
Output		2.4W	2.4W
Brake Type			Disc Brake
Hub Shell Material		A356 Aluminum	6061 Aluminum
Bearing Type		Sealed Cartridge	Sealed Cartridge
Hub Axle Diameter		9mm	9mm
Hub Axle Length		140mm	140mm
Over Locknut Dimension		100mm	100mm
Spoke Holes		(B) 36H	(B) 36H
Pitch Circle Diamter		66.0mm	66.0mm
Flange Width		62.0mm	55.0mm
Center to Flange	Right	31.0mm	31.4mm
	Left	31.0mm	23.6mm
Spoke Compatibility		13G & 14G	13G & 14G
Finish		Painted	Anodized
Weight		825g	835g

Shifters 8-Speed Trigger

Model No.	DLS80 R8 (S)	DLS80 R8 (A~U)
Sales No.	HSJ203	n/a
Type	Dual Lever Trigger	
Speeds	8-Speed (Wide Ratio)	
Dual Release Function	●	
Cable Adjuster	●	
Clamp Fastening Screw	SUS302 Stainless Steel	
Large Lever	Aluminum	
Small Lever	Engineering Polymers	
Cable Type	Slick-Stainless	
Cable Length	2,100mm	×
OEM Pre-Assembled	×	●
Pre-Assembled Cable Anchorage	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm
Pre-Assembly Casing Type	×	SP
Weight	139g	n/a

Shifters 8-Speed Twist

Model No.	TSS86 R8 (S)	TSS86 R8 (A~U)
Sales No.	HSJ980	n/a
Type	Twist	
Speeds	8-Speed (Wide Ratio)	
Cable Adjuster	●	
Clamp Material	A6061 Aluminum	
Clamp Fastening Screw	SUS302 Stainless Steel	
Triangular Cover Screw	SCM435 Chromoly	
Cable Type	Slick-Stainless	
Cable Length	1,900mm	×
OEM Pre-Assembled	×	●
Pre-Assembled Cable Anchorage	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm
Pre-Assembly Casing Type	×	SP
Weight	89g	n/a

Shifters 8-Speed Thumb				
Model No.	SLS80 T8 S)	SLS80 T8 (A~U)	SLS80 H8 (S)	SLS80 H8 (A~U)
Sales No.	HSJ204	n/a	HSJ205	n/a
Type	(T) Thumb 22.2mm Clamp		(H) Thumb 31.8mm Clamp	
Speeds	8-Speed (Wide Ratio)			
Cable Adjuster	●		●	
Lever Position Adjust	●		●	
Lever Material	High Polished Aluminum			
Clamp Material	Aluminum		Aluminum	
Clamp Fastening Screw	SCM435 Chromoly		SCM435 Chromoly	
Cable Type	Slick-Stainless			
Cable Length	1,950mm	×	1,950mm	×
OEM Pre-Assembled	×	●	×	●
Pre-Assembled Cable Anchorage	×	●	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm	×	1,200~2,000mm
Pre-Assembly Casing Type	×	SP	×	SP
Weight	97g	n/a	103g	n/a

Shifters 5-Speed Trigger		
Model No.	DLC50 R5 (S)	DLC50 R5 (A~U)
Sales No.	HSJ206	n/a
Type	Dual Lever Trigger	
Speeds	5-Speed	
Dual Release Function	●	
Cable Adjuster	●	
Clamp Fastening Screw	SCM435 Chromoly	
Large Lever	Aluminum	
Small Lever	Engineering Polymers	
Cable Type	Slick-Galvanized	
Cable Length	2,100mm	×
OEM Pre-Assembled	×	●
Pre-Assembled Cable Anchorage	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm
Pre-Assembly Casing Type	×	SP
Weight	139g	n/a

Shifters 5-Speed Twist

Model No.	TSC50 R5 (S)	TSC50 R5 (A~U)
Sales No.	HSJ999	n/a
Type	Twist	
Speeds	5-Speed	
Cable Adjuster	●	
Clamp Material	A6061 Aluminum	
Clamp Fastening Screw	SCM435 Chromoly	
Window Cover Screw	SCM435 Chromoly	
Cable Type	Slick-Galvanized	
Cable Length	1,900mm	×
OEM Pre-Assembled	×	●
Pre-Assembled Cable Anchorage	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm
Pre-Assembly Casing Type	×	SP
Weight	115g	n/a

Shifters 5-Speed Thumb

Model No.	SLC50 T5 (S)	SLC50 T5 (A~U)	SLC50 H5 (S)	SLC50 H5 (A~U)
Sales No.	HSJ201	n/a	HSJ202	n/a
Type	(T) Thumb 22.2mm Clamp		(H) Thumb 31.8mm Clamp	
Speeds	5-Speed			
Cable Adjuster	●		●	
Lever Position Adjust	●		●	
Lever Material	High Polished Aluminum			
Clamp Material	Aluminum		Aluminum	
Clamp Fastening Screw	SCM435 Chromoly		SCM435 Chromoly	
Cable Type	Slick-Galvanized			
Cable Length	1,950mm	×	1,950mm	×
OEM Pre-Assembled	×	●	×	●
Pre-Assembled Cable Anchorage	×	●	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm	×	1,200~2,000mm
Pre-Assembly Casing Type	×	SP	×	SP
Weight	97g	n/a	103g	n/a

Shifters 4-Speed Trigger

Model No.	DLS40 R4 (S)	DLS40 R4 (A~U)
Sales No.	HSJ207	n/a
Type	Dual Lever Trigger	
Speeds	4-Speed	
Dual Release Function	●	
Cable Adjuster	●	
Clamp Fastening Screw	SCM435 Chromoly	
Large Lever	Aluminum	
Small Lever	Engineering Polymers	
Cable Type	Slick-Galvanized	
Cable Length	2,100mm	×
OEM Pre-Assembled	×	●
Pre-Assembled Cable Anchorage	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm
Pre-Assembly Casing Type	×	2SP
Weight	139g	n/a

Shifters 4-Speed Twist

Model No.	TSS42 R4 (S)	TSS42 R4 (A~U)
Sales No.	HSJ200	n/a
Type	Twist	
Speeds	4-Speed	
Cable Adjuster	●	
Clamp Material	A6061 Aluminum	
Clamp Fastening Screw	SCM435 Chromoly	
Window Cover Screw	SCM435 Chromoly	
Cable Type	Slick-Galvanized	
Cable Length	1,900mm	×
OEM Pre-Assembled	×	●
Pre-Assembled Cable Anchorage	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm
Pre-Assembly Casing Type	×	2SP
Weight	115g	n/a

Shifters 4-Speed Thumb				
Model No.	SLS40 T4 (S)	SLS40 T4 (A~U)	SLS40 H4 (S)	SLS40 H4 (A~U)
Sales No.	HSJ208	n/a	HSJ209	n/a
Type	(T) Thumb 22.2mm Clamp		(H) Thumb 31.8mm Clamp	
Speeds	4-Speed			
Cable Adjuster	●		●	
Lever Position Adjust	●		●	
Lever Material	High Polished Aluminum			
Clamp Material	Aluminum		Aluminum	
Clamp Fastening Screw	SCM435 Chromoly		SCM435 Chromoly	
Cable Type	Slick-Galvanized			
Cable Length	1,950mm	×	1,950mm	×
OEM Pre-Assembled	×	●	×	●
Pre-Assembled Cable Anchorage	×	●	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm	×	1,200~2,000mm
Pre-Assembly Casing Type	×	2SP	×	2SP
Weight	97g	n/a	103g	n/a

Shifters C30 Rotary 3-Speed Trigg

Model No.	DLC30 R3 (S)	DLC30 R3 (A~U)
Sales No.	HSJ210	n/a
Type	Dual Lever Trigger	
Speeds	3-Speed (C30 Rotary Only)	
Cable Adjuster	●	
Clamp Fastening Screw	SCM435 Chromoly	
Large Lever	Engineering Polymers	
Small Lever	Engineering Polymers	
Cable Type	Slick-Galvanized	
Cable Length	2,100mm	×
OEM Pre-Assembled	×	●
Pre-Assembled Cable Adjuster	×	●
Pre-Assembled Cable Anchorage	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm
Pre-Assembly Casing Type	×	2SP
Weight	143g	n/a

Shifters C30 Rotary 3-Speed Twist

Model No.	TSC30 R3 (S)	TSC30 R3 (A~U)	TSC34 R3 (S)	TSC34 R3 (A~U)
Sales No.	HSJ976	n/a	HSJ976	n/a
Type	Twist		Twist	
Speeds	3-Speed (C30 Rotary Only)		3-Speed (C30 Rotary Only)	
Cable Adjuster	×		●	
Clamp Material	A6061 Aluminum		A6061 Aluminum	
Clamp Fastening Screw	SCM435 Chromoly		SCM435 Chromoly	
Triangular Cover Screw	SCM435 Chromoly		SCM435 Chromoly	
Cable Type	Slick-Galvanized		Slick-Galvanized	
Cable Length	1,900mm	×	1,900mm	×
OEM Pre-Assembled	×	●	×	●
Pre-Assembled Cable Adjuster	×	●	×	●
Pre-Assembled Cable Anchorage	×	●	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm	×	1,200~2,000mm
Pre-Assembly Casing Type	×	2SP	×	2SP
Weight	80g	n/a	80g	n/a

Shifters C30 Rotary 3-Speed Thumb

Model No.	SLC30 T3 (S)	SLC30 T3 (A~U)	SLC30 H3 (S)	SLC30 H3 (A~U)
Sales No.	HSJ210	n/a	HSJ211	n/a
Type	(T) Thumb 22.2mm Clamp		(H) Thumb 31.8mm Clamp	
Speeds	3-Speed (C30 Rotary Only)			
Cable Adjuster	●		●	
Lever Position Adjust	●		●	
Lever Material	High Polished Aluminum			
Clamp Material	Aluminum		Aluminum	
Clamp Fastening Screw	SCM435 Chromoly		SCM435 Chromoly	
Cable Type	Slick-Galvanized			
Cable Length	1,950mm	×	1,950mm	×
OEM Pre-Assembled	×	●	×	●
Pre-Assembled Cable Adjuster	×	●	×	●
Pre-Assembled Cable Anchorage	×	●	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm	×	1,200~2,000mm
Pre-Assembly Casing Type	×	2SP	×	2SP
Weight	97g	n/a	103g	n/a

Shifters 3-Speed Trigger

Model No.	DLS30 R3 (S)	DLS30 R3 (A~U)
Sales No.	HSJ943	n/a
Type	Dual Lever Trigger	
Speeds	3-Speed	
Cable Adjuster	●	
Clamp Fastening Screw	SCM435 Chromoly	
Large Lever	Aluminum	
Small Lever	Engineering Polymers	
Cable Type	Slick-Galvanized	
Cable Length	2,050mm	×
OEM Pre-Assembled	×	●
Pre-Assembled Cable Adjuster	×	●
Pre-Assembled Indicator Connector	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm
Pre-Assembly Casing Type	×	2SP
Weight	156g	n/a

Shifters 3-Speed Twist

Model No.	TSS37 R3 (S)	TSS37 R3 (A~U)	TSS36 R3 (S)	TSS36 R3 (A~U)	TSS33 R3 (S)	TSS33 R3 (A~U)
Sales No.	HSJ978	n/a	HSJ977	n/a	HSJ939	n/a
Type	Twist		Twist		Twist	
Speeds	3-Speed		3-Speed		3-Speed	
Cable Adjuster	×		×		×	
Clamp Material	A6061 Aluminum		A6061 Aluminum		A6061 Aluminum	
Clamp Fastening Screw	SCM435 Chromoly		SCM435 Chromoly		SCM435 Chromoly	
Triangular Cover Screw	SCM435 Chromoly		SCM435 Chromoly		SCM435 Chromoly	
Cable Type	Galvanized		Galvanized		Galvanized	
Cable Length	1,900mm	×	1,950mm	×	1,950mm	×
OEM Pre-Assembled	×	●	×	●	×	●
Pre-Assembled Cable Adjuster	×	●	×	●	×	●
Pre-Assembled Indicator Connector	×	●	×	●	×	●
Pre-Assembled Casing Length	×	1,200~2,000mm	×	1,200~2,000mm	×	1,200~2,000mm
Pre-Assembly Casing Type	×	2SP	×	2SP	×	2SP
Weight	80g	n/a	62g	n/a	62g	n/a

Shifters 3-Speed Thumb

Model No.	SLS30 T3 (S)	SLS30 T3 (A~U)	SLS30 H3 (S)	SLS30 H3 (A~U)	SLS30 P3 (S)	SLS30 B3 (S)	SLS30 S3 (S)
Sales No.	HSJ962	n/a	HSJ995	n/a	HSJ993	HSJ963	HSJ981
Type	(T) Thumb 22.2mm Clamp		(H) Thumb 31.8mm Clamp		(P) Seat Pose 27.2mm Clamp	(B) Bar End	(S) Brazed on 28.6mm
Speeds	3-Speed						
Cable Adjuster	×		×		×	×	×
Lever Position Adjust	●		●		●	×	×
Lever Material	High Polished Aluminum						
Clamp Material	Aluminum		Aluminum		Aluminum	×	×
Body Material	×		×		×	●	×
Clamp Fastening Screw	SCM435 Chromoly		SCM435 Chromoly		SCM435 Chromoly	×	×
Cable Type	Slick-Galvanized						
Cable Length	1,950mm	×	1,950mm	×	1,450mm	2,400mm	1,950mm
OEM Pre-Assembled	×	●	×	●	×	×	×
Pre-Assembled Cable Adjuster	×	●	×	●	×	×	×
Pre-Assembled Indicator Connector	×	●	×	●	×	×	×
Pre-Assembled Casing Length	×	1,200~2,000mm	×	1,200~2,000mm	×	×	×
Pre-Assembly Casing Type	×	2SP	×	2SP	×	×	×
Weight	87g	n/a	93g	n/a	100g	105g	51g

Shifters 3-Speed Thumb

Model No.	SLS3C R3 (N)	SLS3C R3 (A~U)	SLS3N R3 (N)	SLS3N R3 (A~U)
Sales No.	HSJ762	n/a	HSJ823	n/a
Type	Classic Trigger		Thumb	
Speeds	3-Speed		3-Speed	
Cable Adjuster	×		×	
Lever Position Adjust	×		●	
Lever Material	Composite Covered Steel		Engineering Polymers	
Clamp Material	Steel		Steel	
Clamp Fastening Screw	Chromoly		Chromoly	
Cable Type	Slick-Galvanized		Slick-Galvanized	
Cable Length	Sold Separately	×	Sold Separately	×
OEM Pre-Assembled	×	●	×	●
Pre-Assembled Cable Adjuster	×	●	×	●
Pre-Assembled Indicator Connector	×	●	×	●
Pre-Assembled Casing Length	×	1,200~2000mm	×	1,200~2,000mm
Pre-Assembly Casing Type	×	2SP	×	2SP
Weight	68g	n/a	54g	n/a

Shifters 3-Speed Chopper Lever

Model No.	CLS31 R3	CLS30 R3	CLS3S R3	CLS3M R3
Sales No.	HSJ944	HSJ945	HSJ946	HSJ947
Type	Stick Arm Lever		Stick Arm Lever	
Speeds	3-Speed		3-Speed	
Lever Arm Material	Aluminum		Steel	Steel
Lever Arm Thickness	6mm		6mm	4mm
Lever Arm Shape	Curved		Curved	Straight
Light Weight Holes	●	×	×	●
Arm Finish	Anodized		Satin	Chrome
Cable Type	Sold Separately		Sold Separately	
Weight	377g	397.5g	658g	469g

Shifters S3X Fixed 3-Speed

Model No.	SLS3X T3 (S)	SLS3X T3 (A~U)	SLS3X H3 (S)	SLS3X H3 (A~U)	SLS3X P3 (S)	SLS3X B3 (S)	SLS3X S3 (S)
Sales No.	HSJ965	n/a	HSJ990	n/a	HSJ991	HSJ966	HSJ988
Type	(T) Thumb 22.2mm Clamp		(H) Thumb 31.8mm Clamp		(P) Seat Post 27.2mm Clamp	(B) Bar End	(S) Brazed on 28.6mm
Speeds	3-Speed (S3X Fixed Only)						
Cable Adjuster	✕		✕		✕	✕	✕
Lever Position Adjust	●		●		●	✕	✕
Lever Material	High Polished Aluminum						
Clamp Material	Aluminum		Aluminum		Aluminum	✕	✕
Body Material	✕		✕		✕	Aluminum	✕
Clamp Fastening Screw	SCM435 Chromoly		SCM435 Chromoly		SCM435 Chromoly	✕	✕
Cable Type	Slick-Stainless						
Cable Length	1,950mm	✕	1,950mm	✕	1,450mm	2,400mm	1,950mm
OEM Pre-Assembled	✕	●	✕	●	✕	✕	✕
Pre-Assembled Cable Adjuster	✕	●	✕	●	✕	✕	✕
Pre-Assembled Indicator Connector	✕	●	✕	●	✕	✕	✕
Pre-Assembled Casing Length	✕	1,200~2,000mm	✕	1,200~2,000mm	✕	✕	✕
Pre-Assembly Casing Type	✕	SP	✕	SP	✕	✕	✕
Weight	87g	n/a	93g	n/a	100g	105g	51g

Shifters 7 & 4 & 3-Speed Twist		
Model No.	TSS74 RX (S)	TSSN3 R3 (S)
Type	Twist	
Speeds	7 / 4-Speed (Shimano Type)	3-Speed (Shimano Type)
Cable Adjuster	●	×
Clamp Material	A6061 Aluminum	
Clamp Fastening Screw	SCM435 Chromoly	
Triangular Cover Screw	SCM435 Chromoly	
Cable Type	Slick-Galvanized	
Cable Length	2,250mm	1,950mm
Weight	80g	62g

Shifters 3-Speed Thumb		
Model No.	SLS3H T3 (S)	SLS3H H3 (S)
Type	(T) Thumb 22.2mm Clamp	(H) Thumb 31.8mm Clamp
Speeds	3-Speed (Shimano Type)	
Cable Adjuster	×	
Lever Position Adjust	●	
Lever Material	High Polished Aluminum	
Clamp Material	Aluminum	
Clamp Fastening Screw	SCM435 Chromoly	
Cable Type	Slick-Galvanized	
Cable Length	1,950mm	1,950mm
Weight	87g	93g

IGH S80 (W)				
Model Name		X-RD8 (W)	X-RK8 (W)	X-RF8 (W)
Model No. (36H)		IHW8T.XBSS.HA2	IHW8K.XBLS.HA2	IHW8F.XBLS.HA2
Model No. (32H)		IHW8T.XCSS.HA2	IHW8K.XCLS.HA2	IHW8F.XCSS.HA2
Model No. (28H)		×	IHW8K.XDLS.HA2	×
Speed		8-Speed		
Type		70mm Drum Brake	Disc Brake	Freewheel
Hub Shell Material		A356 Aluminum	6061 Aluminum	6061 Aluminum
Gear Ratio	Overall Range	325%		
	1	100%	Direct Drive	
	2	130%	(+) 30%	[Gear 1 (+) 30%]
	3	148%	(+) 14%	[Gear 2 (+) 14%]
	4	169%	(+) 14%	[Gear 3 (+) 14%]
	5	192%	(+) 14%	[Gear 4 (+) 14%]
	6	220%	(+) 14%	[Gear 5 (+) 14%]
	7	250%	(+) 14%	[Gear 6 (+) 14%]
	8	325%	(+) 30%	[Gear 7 (+) 30%]
Axle Diameter		13/32" Slotted		
Axle Length		185mm	185mm	175mm
Over Locknut Dimension		132mm	134mm	120mm
R: Axle Protrusion Length		27mm	25mm	27mm
L: Axle Protrusion Length		26mm	26mm	28mm
Spoke Holes		(B) 36H / (C) 32H	(B) 36H / (C) 32H / (D) 28H	(B) 36H / (C) 32H / (D) 28H
Pitch Circle Diameter		89.4mm	89.4mm	89.4mm
Center to Flange	Right	32.3mm	31.2mm	33.3mm
	Left	45.7mm	27.3mm	25.2mm
Flange Width		78.0mm	58.5mm	58.5mm
Spoke Compatibility		13G & 14G		
Sprocket Teeth		20T / 23T / 25T		
Chain Line : 1/8" Dished		42.2mm	41.0mm	43.1mm
Chain Line : 3/32" Flat		46.0mm	44.9mm	46.9mm
Chain Line : 3/32" Dished		42.4mm	45.1mm	43.4mm
Finish		High Polish Alloy	High Polish Alloy	High Polish Anodized
Weight		2,170g	1,880g	1,790g

IGH C50								
Model Name		RXL-RD5	RX-RD5	RX-RK5	RX-RF5			RX-RC5
Model No. (36H)		IHC5T.YBSS.AA0	IHC5T.XBSS.AA0	IHC5K.XBSS.AA1	IHC5F.XBSS.AA0	IHC5F.XBSC.AA0	IHC5F.XBCS.AA0	IHC5C.XBSS.AA0
Model No. (32H)		×	×	IHC5K.XCSS.AA1	IHC5F.XCSS.AA0	IHC5F.XCSC.AA0	IHC5F.XCCS.AA0	IHC5C.XCSS.AA0
Model No. (28H)		×	×	×	×	×	×	×
Model No. (High Polish)		IHC5T.YBSS.HA0	IHC5T.XBSS.HA0	×	×	×	×	×
Speed		5-Speed						
Type		90mm Drum Brake	70mm Drum Brake	Disc Brake	Freewheel			Coaster Brake
Hub Shell Material		A356 Aluminum	A356 Aluminum	6061 Aluminum	6061 Aluminum			6061 Aluminum
Gear Ratio	Overall Range	242%						
	1	64%		(-) 36%				
	2	80%		(-) 20%		[Gear 1 (+) 25%]		
	3	100%		Direct Drive		[Gear 2 (+) 25%]		
	4	125%		(+) 25%		[Gear 3 (+) 25%]		
	5	156%		(+) 56%		[Gear 4 (+) 25%]		
Axle Diameter		13/32" Slotted						
Axle Length		185mm	185mm	185mm	185mm	185mm	178mm	185mm
Over Locknut Dimension		135mm	135mm	135mm	135mm	125mm	128mm	135mm
R: Axle Protrusion Length		26mm	26mm	26mm	25mm	25mm	25mm	26mm
L: Axle Protrusion Length		24mm	24mm	24mm	25mm	35mm	25mm	24mm
Spoke Holes		(B) 36H	(B) 36H	(B) 36H / (C) 32H	(B) 36H / (C) 32H			(B) 36H / (C) 32H
Pitch Circle Diameter		109mm	95.5mm	95.5mm	95.5mm	95.5mm	95.5mm	95.5mm
Flange Width		80.5mm	80.5mm	57.5mm	57.5mm	57.5mm	57.5mm	57.5mm
Center to Flange	Right	30.4mm	30.4mm	30.5mm	29.7mm	25.2mm	26.8mm	30.5mm
	Left	50.1mm	50.1mm	27.0mm	27.8mm	32.3mm	30.7mm	27.0mm
Spoke Compatibility		13G & 14G						
Sprocket Teeth		17T ~ 20T, 24T						
Chain Line: 1/8" Flat		43.9mm	43.9mm	44.0mm	43.2mm	38.7mm	40.3mm	44.0mm
Chain Line: 1/8" Dished		42.2mm / 45.6mm	42.2mm / 45.6mm	42.3mm / 45.7mm	41.5mm / 44.9mm	37.0mm / 40.4mm	38.6mm / 42.0mm	42.3mm / 45.7mm
Chain Line: 3/32" Flat		43.4mm / 44.4mm	43.4mm / 44.4mm	43.5mm / 44.5mm	42.7mm / 43.7mm	38.2mm / 39.2mm	39.8mm / 40.8mm	43.5mm / 44.5mm
Chain Line: 3/32" Dished		41.9mm / 45.9mm	41.9mm / 45.9mm	42.0mm / 46.0mm	41.2mm / 45.2mm	36.7mm / 40.7mm	38.3mm / 42.3mm	42.0mm / 46.0mm
Finish		Natural Alloy	Natural Alloy	Anodized Alloy	Anodized Alloy			Anodized Alloy
Weight		2,412g	2,232g	2,014g	1,920g	1,910g	1,905g	2,350g

IGH S40					
Model Name		X-RD4	X-RK4	X-RF4	X-RC4
Model No. (36H)		IHS4T.XBLS.AA0	IHS4K.XBLS.AA0	IHS4F.XBSS.AA0	IHS4C.XBLS.AA0
Model No. (32H)		×	IHS4K.XCLS.AA0	IHS4F.XCSS.AA0	IHS4C.XCLS.AA0
Model No. (28H)		×	IHS4K.XDLS.AA0	IHS4F.XDSS.AA0	IHS4C.XDLS.AA0
Speed		4-Speed			
Type		70mm Drum Brake	Disc Brake	Freewheel	Coaster Brake
Hub Shell Material		A356 Aluminum	6061 Aluminum	6061 Aluminum	6061 Aluminum
Gear Ratio	Overall Range	210%			
	1	100% Direct Drive			
	2	128%	(+) 28%	[Gear 1 (+) 28%]	
	3	164%	(+) 28%	[Gear 2 (+) 28%]	
	4	210%	(+) 28%	[Gear 3 (+) 28%]	
Axle Diameter		M10 Slotted			
Axle Length		180mm	180mm	170mm	180mm
Over Locknut Dimension		130mm	135mm	120mm	125mm
R: Axle Protrusion Length		26mm	22mm	25mm	28mm
L: Axle Protrusion Length		24mm	23mm	25mm	27mm
Spoke Holes		(B) 36H	(B) 36H / (C) 32H / (D) 28H	(B) 36H / (C) 32H / (D) 28H	(B) 36H / (C) 32H / (D) 28H
Pitch Circle Diameter		89.8mm	81.0mm	81.0mm	81.0mm
Flange Width		72.2mm	59.8mm	59.8mm	60.5mm
Center to Flange	Right	29.2mm	27.6mm	24.2mm	27.2mm
	Left	43.0mm	32.2mm	35.6mm	33.3mm
Spoke Compatibility		13G &14G			
Sprocket Teeth		13T ~ 24T			
Chain Line: 1/8" Flat		44.8mm	43.2mm	39.5mm	43.2mm
Chain Line: 1/8" Dished		43.2mm / 46.4mm	41.6mm / 44.8mm	37.9mm / 41.1mm	41.6mm / 44.8mm
Chain Line: 3/32" Flat		44.4mm / 45.2mm	42.8mm / 43.6mm	39.1mm / 39.9mm	42.8mm / 43.6mm
Chain Line: 3/32" Dished		42.7mm / 46.7mm	41.1mm / 45.1mm	37.4mm / 41.4mm	41.1mm / 45.1mm
Finish		Natural Alloy	Anodized Alloy	Anodized Alloy	Anodized Alloy
Weight		1,480g	1,270g	1,160g	1,630g

IGH C30

Model Name	RXL-RD3	RX-RD3	RS-RK3	RS-RF3
Model No. (36H)	IHC3T.YBSS.AA1	IHC3T.XBSS.AA1	IHC3K.QBSS.AA1	IHC3F.QBSS.AA1
Model No. (32H)		×	IHC3K.QCSS.AA1	IHC3F.QCSS.AA1
Model No. (28H)		×	IHC3K.QDSS.AA1	IHC3F.QDSS.AA1
Speed		3-Speed		
Type	90mm Drum Brake	70mm Drum Brake	Disc Brake	Freewheel
Hub Shell Material	A356 Aluminum	A356 Aluminum	6061 Aluminum	6061 Aluminum
Gear Ratio	Overall Range	177%		
	1	75%	(-) 25%	
	2	100%	Direct Drive	[Gear 1 (+) 33%]
	3	133%	(+) 33.3%	[Gear 2 (+) 33%]
Axle Diameter	3/8" Slotted			
Axle Length	185mm	185mm	185mm	185mm
Over Locknut Dimension	135mm	135mm	135mm	129mm
R:Axle Protusion Length	27mm	27mm	26mm	27mm
L:Axle Protusion Length	23mm	23mm	24mm	29mm
Spocke Holes	(B) 36H	(B) 36H	(B) 36H / (C) 32H / (D) 28H	(B) 36H / (C) 32H / (D) 28H
Pitch Circle Diameter	109.0mm	89.8mm	67.0mm	67.0mm
Flange Width	66.3	65.9mm	56.6mm	56.6mm
Center to Flange	Right	21.2mm	20.4mm	20.8mm
	Left	45.1mm	45.5mm	35.8mm
Spocke Compatibility	13G & 14G			
Sprocket Teeth	13T ~ 24T		13T ~ 24T	
Chain Line: 1/8" Flat	38.5mm	38.5mm	38.7mm	37.0mm
Chain Line: 1/8" Dished	35.8mm / 40.2mm	35.8mm / 40.2mm	36.0mm / 40.4mm	35.3mm / 38.7mm
Chain Line: 1/8" Deep Dished	34.0mm / 43.0mm	34.0mm / 43.0mm	34.2mm / 43.2mm	32.7mm / 41.7mm
Chain Line: 3/32" Flat	38.1mm / 38.9mm	38.1mm / 38.9mm	38.3mm / 39.1mm	36.6mm / 37.4mm
Chain Line: 3/32" Dished	36.4mm / 40.6mm	36.4mm / 40.6mm	36.6mm / 40.8mm	34.9mm / 39.1mm
Chain Line: 3/32" Deep Dished	X	X	X	X
Finish	Natural Alloy	Natural Alloy	Anodized Alloy	Anodized Alloy
Weight	1,620g	1,440g	1,095g	990g

IGH S30				
Model Name		XL-RD3	X-RD3	S-RK3
Model No. (36H)		IHS3T.YBCS.AA0	IHS3T.XBSS.AA1	IHS3K.QBLS.AA0
Model No. (32H)		×	×	IHS3K.QCLS.AA0
Model No. (28H)		×	×	×
Model No. (High Polish)		IHS3T.YBCS.HA0	IHS3T.XBSS.HA1	×
Speed		3-Speed		
Type		90mm Drum Brake	70mm Drum Brake	Disc Brake Type
Hub Shell Material		A356 Aluminum	A356 Aluminum	6061 Aluminum
Gear Ratio	Overall Range	177%		
	1	75% (-) 25%		
	2	100%	Direct Drive	[Gear 1 (+) 33%]
	3	133%	(+) 33.3%	[Gear 2 (+) 33%]
Axle Diameter		13/32" Slotted		
Axle Length		163mm	163mm	185mm
Over Locknut Dimension		118mm	117mm	135mm
R: Axle Protrusion Length		23mm	23mm	23mm
L: Axle Protrusion Length		22mm	23mm	27mm
Spoke Holes		(B) 36H	(B) 36H	(B) 36H / (C) 32H
Pitch Circle Diameter		109.0mm	89.8mm	67.0mm
Flange Width		66.3mm	65.9mm	56.6mm
Center to Flange	Right	25mm	26.9mm	28.0mm
	Left	41.3mm	39.0mm	28.6mm
Spoke Compatibility		13G &14G	13G & 14G	13G &14G
Sprocket Teeth		13T~ 24T	13T ~ 24T	13T ~ 24T
Chain Line: 1/8" Flat		44.2mm	44.7mm	43.9mm
Chain Line: 1/8" Dished		42.7mm / 45.7mm	43.1mm / 46.5mm	42.3mm / 45.7mm
Chain Line: 3/32" Flat		43.7mm / 44.7mm	44.3mm / 45.1mm	43.5mm / 44.3mm
Chain Line: 3/32" Dished		41.8mm / 46.2mm	42.6mm / 46.6mm	41.8mm / 45.8mm
Indicator Type		MK3	MK3	MK9
Finish		Natural Alloy	Natural Alloy	Anodized Alloy
Weight		1,580g	1,400g	1,085g

IGH S30							
Model Name		S-RC3 (II)		S-RF3			S-RF3(N)
Model No. (36H)		IHS3C.QBLC.AA3	IHS3C.QBSS.AA3	IHS3F.QBLS.AA3	IHS3F.QBSA.AA3	IHS3F.QBSS.AA3	×
Model No. (32H)		IHS3C.QCLC.AA3	IHS3C.QCSS.AA3	IHS3F.QCLS.AA3	IHS3F.QCSA.AA3	IHS3F.QCSS.AA3	×
Model No. (28H)		×	IHS3C.QDSS.AA3	×	×	×	IHS3F.QDCS.AA3
Model No. (High Polish)		×	×	×	×	×	×
Speed		3-Speed					
Type		Coaster Brake		Freewheel			
Hub Shell Material		6061 Aluminum		6061 Aluminum			
Gear Ratio	Overall Range	177%					
	1	75%		(-) 25%			
	2	100%		Direct Drive		[Gear 1 (+) 33%]	
	3	133%		(+) 33.3%		[Gear 2 (+) 33%]	
Axle Diameter		13/32" Slotted					
Axle Length		175mm	163mm	175mm	163mm	163mm	148mm
Over Locknut Dimension		119mm	116mm	127mm	119mm	118mm	108mm
R: Axle Protrusion Length		27mm	26mm	24mm	22mm	21mm	20mm
L: Axle Protrusion Length		29mm	21mm	24mm	22mm	24mm	20mm
Spoke Holes		(B) 36H / (C) 32H / (D) 28H		(B) 36H / (C) 32H	(B) 36H / (C) 32H	(B) 36H / (C) 32H	(D) 28H
Pitch Circle Diameter		67.0mm	67.0mm	67.0mm	67.0mm	67.0mm	67.0mm
Flange Width		56.6mm	56.6mm	56.6mm	56.6mm	56.6mm	56.6mm
Center to Flange	Right	25.1mm	26.3mm	28.6mm	29.1mm	28.3mm	28.0mm
	Left	31.5mm	30.3mm	28.0mm	27.5mm	28.3mm	28.6mm
Spoke Compatibility		13G & 14G		13G & 14G			13G & 14G
Sprocket Teeth		13T ~ 24T		13T ~ 24T			12T ~ 22T
Chain Line: 1/8" Flat		42.7mm	43.9mm	43.1mm	43.5mm(43.5)	42.7mm	40.0mm
Chain Line: 1/8" Dished		41.1mm / 44.5mm	42.3mm / 45.7mm	41.5mm / 44.9mm	41.9mm / 45.3mm	41.5mm / 44.9mm	38.4mm / 41.8mm
Chain Line: 3/32" Flat		42.3mm / 43.1mm	43.5mm / 44.3mm	42.7mm / 43.5mm	43.1mm / 43.9mm	42.3mm / 43.1mm	39.6mm / 40.4mm
Chain Line: 3/32" Dished		40.6mm / 44.6mm	41.8mm / 45.8mm	41.0mm / 45.0mm	41.4mm / 45.4mm	40.6mm / 44.6mm	37.9mm / 41.9mm
Indicator Type		MK5	MK4	MK5	MK3	MK3	MK2
Finish		Anodized Alloy		Anodized Alloy			Anodized Alloy
Weight		1,300g	1,290g	1,015g	995g	995g	975g

IGH S3S				
Model Name		AWC (II)		AW
Model No. (36H)		IHS3C.WBLS.SA3	IHS3C.WBSS.SA3	IHS3F.WBLS.SA3 IHS3F.WBSS.SA3
Model No. (32H)		×	×	×
Model No. (28H)		×	×	×
Speed		3-Speed		
Type		Coaster Brake		Freewheel
Hub Shell Material		Steel		Steel
Gear Ratio	Overall Range	177%		
	1	75% (-) 25%		
	2	100% Direct Drive		[Gear 1 (+) 33%]
	3	133% (+) 33.3%		[Gear 2 (+) 33%]
Axle Diameter		13/32" Slotted		
Axle Length		175mm	163mm	175mm 163mm
Over Locknut Dimension		116mm	116mm	127mm 117mm
R: Axle Protrusion Length		30mm	26mm	24mm 22mm
L: Axle Protrusion Length		29mm	21mm	24mm 24mm
Spoke Holes		(B) 36H		(B) 36H
Pitch Circle Diameter		65.0mm	65.0mm	65.0mm 65.0mm
Flange Width		56.6mm	56.6mm	56.6mm 56.6mm
Center to Flange	Right	26.3mm	26.3mm	28.6mm 28.6mm
	Left	30.3mm	30.3mm	28.0mm 28.0mm
Spoke Compatibility		14G		
Sprocket Teeth		13T ~ 24T		
Chain Line: 1/8" Flat		45.6mm	43.9mm	43.1mm 43.1mm
Chain Line: 1/8" Dished		44.0mm / 47.4mm	42.3mm / 45.7mm	41.5mm / 44.9mm 41.5mm / 44.9mm
Chain Line: 3/32" Flat		45.2mm / 46.0mm	43.5mm / 44.3mm	42.7mm / 43.5mm 42.7mm / 43.5mm
Chain Line: 3/32" Dished		43.5mm / 47.5mm	41.8mm / 45.8mm	41.0mm / 45.0mm 41.0mm / 45.0mm
Indicator Type		MK5	MK4	MK5 MK3
Finish		Painted Silver		
Weight		1,360g	1,350g	1,115g 1,095g

IGH SX			
Model Name		SX-RK3	SX-RB3
Model No. (36H)		IHS3K.PBSS.AA3	IHS3B.PBSS.AAA
Model No. (32H)		×	×
Model No. (28H)		×	×
Speed		3-Speed	
Type		Disc Brake	Band / Servo Brake
Hub Shell Material		6061 Aluminum	A356 Aluminum
Gear Ratio	Overall Range	177%	
	1	75%	(-) 25%
	2	100%	Direct Drive [Gear 1 (+) 33%]
	3	133%	(+) 33.3% [Gear 2 (+) 33%]
Axle Diameter		13/32" Slotted	
Axle Length		215mm	215mm
Over Locknut Dimension		170mm	163mm
R: Axle Protrusion Length		23mm	23mm
L: Axle Protrusion Length		22mm	29mm
Spoke Holes		36H	36H
Pitch Circle Diameter		89.8mm	90.0mm
Center to Flange	Right	52.1mm	47.2mm
	Left	43.5mm	46.3mm
Flange Width		95.6mm	93.5mm
Spoke Compatibility		13G & 14G	13G & 14G
Sprocket Teeth		13~22T	13~22T
Chain Line: 1/8" Flat		70.9mm	67.6 mm
Chain Line: 1/8" Dished		69.2mm / 72.6mm	65.9mm / 69.3mm
Chain Line: 3/32" Flat		70.6mm / 71.2mm	67.3mm / 67.9mm
Chain Line: 3/32" Dished		68.8mm / 73.0mm	65.5mm / 69.7mm
Indicators		MK3	MK3
Weight		1,400g	1,240g

IGH TS & QS			
Model Name	QS-RC5	TS-RC5	TS-RF5
Model No.	IHQ5C.QBLS.AA3	IHT5C.QBSS.AA0	IHT5F.QBSC.AA1
Speed	5-Speed + Reverse	5-Speed	5-Speed
Type	Coaster Brake	Coaster Brake	Freewheel
Hub Shell Material	6061 Aluminum	6061 Aluminum	6061 Aluminum
Gear Ratio	Overall Range	256%	
	1	62.5%	(-) 37.5%
	2	75%	(-) 25% [Gear 1 (+) 20%]
	3	100%	Direct Drive [Gear 2 (+) 33%]
	4	133.3%	(+) 33.3% [Gear 3 (+) 33%]
	5	160%	(+) 60% [Gear 4 (+) 20%]
Axle Diameter	13/32" Slotted	13/32" Slotted	13/32" Slotted
Axle Length	185mm	175mm	175mm
Over Locknut Dimension	139mm	127mm	116mm
R: Axle Protrusion Length	24mm	24mm	24mm
L: Axle Protrusion Length	22mm	24mm	35mm
Flange Sprocket Teeth	22T	22T	22T
Flange Sprocket C.L.	39.4mm	33.9mm	27.6mm
Sprocket Teeth	21~22T	21~22T	21~22T
Sprocket Chain Line	53.9mm	51.5mm	44.2mm
Indicators	Yellow / Navy Blue*	Yellow / Navy Blue*	Yellow / Navy Blue*
Finish	Anodized Alloy	Anodized Alloy	Anodized Alloy
Weight	2,010g	1,580g	1,320g

*Navy Blue Indicator must be used when using HMN420 Short Guide Nut.

IGH TS & QS				
Model Name	QS-RC3	TS-RC3	TS-RF3	T-S2C
Model No.	IHQ3C.QBLS.AA3	IHT3C.QBSS.AA3	IHT3F.QBSS.AA3	IHT2C.SBSS.AA1
Speed	3-Speed + Reverse	3-Speed	3-Speed	2-Speed
Type	Coaster Brake	Coaster Brake	Freewheel	Coaster Brake
Hub Shell Material	6061 Aluminum	6061 Aluminum	6061 Aluminum	6061 Aluminum
Gear Ratio	Overall Range	177%		138%
	1	75%	(-) 25%	100% Direct Drive
	2	100%	Direct Drive [Gear 1 (+) 33%]	138% (+) 38%
	3	133%	(+) 33.3% [Gear 2 (+) 33%]	×
Axle Diameter	13/32" Slotted			13/32" Slotted
Axle Length	175mm	163mm	163mm	162mm
Over Locknut Dimension	126mm	116mm	117mm	116mm
R: Axle Protrusion Length	30mm	26mm	22mm	23mm
L: Axle Protrusion Length	19mm	21mm	24mm	23mm
Flange Sprocket Teeth	22T	22T	22T	22T
Flange Sprocket C.L.	33.4mm	27.8mm	30.1mm	27.8mm
Sprocket Teeth	21~22T	21~22T	21~22T	21~22T
Sprocket Chain Line	47.2mm	45.7mm	44.9mm	45.7mm
Indicators	MK5	MK4	MK3	×
Finish	Anodized Alloy	Anodized Alloy	Anodized Alloy	Hi-Polished Anodized
Weight	1,800g	1,360g	1,100g	1,465g

IGH S3X			
Model Name		S3X	
Model No. (Alloy Silver 36H)		IHS3X.QBSS.AA0	IHS3X.QBLS.AA0
Model No. (Alloy Silver 32H)		IHS3X.QCSS.AA0	IHS3X.QCLS.AA0
Model No. (Black 36H)		IHS3X.QBSS.BA0	IHS3X.QBLS.BA0
Model No. (Black 32H)		IHS3X.QCSS.BA0	IHS3X.QCLS.BA0
Model No. (Gold 36H)		IHS3X.QBSS.GA0	IHS3X.QBLS.GA0
Model No. (Gold 32H)		IHS3X.QCSS.GA0	IHS3X.QCLS.GA0
Model No. (Red 36H)		IHS3X.QBSS.RA0	IHS3X.QBLS.RA0
Model No. (Red 32H)		IHS3X.QCSS.RA0	IHS3X.QCLS.RA0
Model No. (Blue 36H)		IHS3X.QBSS.2A0	IHS3X.QBLS.2A0
Model No. (Blue 32H)		IHS3X.QCSS.2A0	IHS3X.QCLS.2A0
Type		Fixed Gear	
Speed		3-Speed	
Hub Shell Material		6061 Aluminum	
Gear Ratio	Overall Range	160%	
	1	62.5%	(-) 37.5%
	2	75%	(-) 25% [Gear 1 (+) 20%]
	3	100%	Direct Drive [Gear 2 (+) 33%]
Axle Diameter		13/32" Slotted	
Axle Length		165mm	174mm
Over Locknut Dimension		120mm	130mm
R: Axle Protrusion Length		22mm	21mm
L: Axle Protrusion Length		23mm	23mm
Spoke Holes		(B) 36H / (C) 32H	
Pitch Circle Diameter		67.0mm	67.0mm
Flange Width		56.6mm	56.6mm
Center to Flange	Right	24.7mm	24.0mm
	Left	31.9mm	32.6mm
Spoke Compatibility		14G	14G
Sprocket Teeth 1/8"		13~22T	13~22T
Sprocket Teeth 3/32"		12~22T	12~22T
Chain Line		42 , 43 , 44 , 45mm	42 , 43 , 44 , 45mm
Indicator		Orange	White
Finish		High Polish Anodized	
Weight		980g	990g

IGH F30							
Model Name		CS-RK3			CS-RF3		
Model No. (Alloy Silver)		IHF3K.QBSS.AA0	IHF3K.QCSS.AA0	IHF3K.QDSS.AA0	IHF3F.QBSS.AA0	IHF3F.QCSS.AA0	IHF3F.QDSS.AA0
Model No. (Black)		IHF3K.QBSS.BA0	IHF3K.QCSS.BA0	IHF3K.QDSS.BA0	IHF3F.QBSS.BA0	IHF3F.QCSS.BA0	IHF3F.QDSS.BA0
Speed		3 x 9/8-Speed			3 x 9/8-Speed		
Type		Disc Brake Type			Freewheel		
Hub Shell Material		6061 Aluminum			6061 Aluminum		
Gear Ratio	Overall Range	177%			177%		
	1	75%	(-) 25%		75%	(-) 25%	
	2	100%	Direct Drive	[Gear 1 (+) 33%]	100%	Direct Drive	[Gear 1 (+) 33%]
	3	133%	(+) 33.3%	[Gear 2 (+) 33%]	133%	(+) 33.3%	[Gear 2 (+) 33%]
Axle Diameter		13/32" Slotted			13/32" Slotted		
Axle Length		179mm			179mm		
Over Locknut Dimension		135mm			135mm		
R: Axle Protrusion Length		22mm			22mm		
L: Axle Protrusion Length		22mm			22mm		
Spoke Holes		(B) 36H	(C) 32H	(D) 28H	(B) 36H	(C) 32H	(D) 28H
Pitch Circle Diameter		67.0mm			67.0mm		
Flange Width		56.6mm			56.6mm		
Center to Flange	Right	21.4mm			21.4mm		
	Left	35.4mm			35.4mm		
Spoke Compatibility		13G &14G			13G &14G		
Cassette Sprocket Type		9/8-Speed			9/8-Speed		
Max. Sprocket		34T			34T		
Min. Sprocket		11T			11T		
Chain Line:		45mm			45mm		
Indicators		MK8			MK8		
Finish		Anodized Alloy			Anodized Alloy		
Weight		1,155g			1,090g		

IGH S20 / S2S					
Model Name		S2K	S2		S2C
Model No. (Alloy Silver 36H)		IHK2K.QBLS.AA0	IHK2F.QBSS.AA0	IHK2F.QBCS.AA0	IHK2C.QBLS.AA3
Model No. (Alloy Silver 32H)		IHK2K.QCLS.AA0	IHK2F.QCSS.AA0	IHK2F.QCCS.AA0	IHK2C.QCLS.AA3
Model No. (Black 36H)		IHK2K.QBLS.BA0	IHK2F.QBSS.BA0	IHK2F.QBCS.BA0	IHK2C.QBLS.BA3
Model No. (Black 32H)		IHK2K.QCLS.BA0	IHK2F.QCSS.BA0	IHK2F.QCCS.BA0	IHK2C.QCLS.BA3
Model No. (Gold 36H)		IHK2K.QBLS.GA0	IHK2F.QBSS.GA0	IHK2F.QBCS.GA0	IHK2C.QBLS.GA3
Model No. (Gold 32H)		IHK2K.QCLS.GA0	IHK2F.QCSS.GA0	IHK2F.QCCS.GA0	IHK2C.QCLS.GA3
Model No. (Red 36H)		IHK2K.QBLS.RA0	IHK2F.QBSS.RA0	IHK2F.QBCS.RA0	IHK2C.QBLS.RA3
Model No. (Red 32H)		IHK2K.QCLS.RA0	IHK2F.QCSS.RA0	IHK2F.QCCS.RA0	IHK2C.QCLS.RA3
Model No. (Blue 36H)		IHK2K.QBLS.2A0	IHK2F.QBSS.2A0	IHK2F.QBCS.2A0	IHK2C.QBLS.2A3
Model No. (Blue 32H)		IHK2K.QCLS.2A0	IHK2F.QCSS.2A0	IHK2F.QCCS.2A0	IHK2C.QCLS.2A3
Speed		2-Speed			
Type		Disc Brake	Freewheel		Coaster Brake
Hub Shell Material		6061 Aluminum	6061 Aluminum		6061 Aluminum
Gear Ratio	Overall Range	138%			
	1	100% Direct Drive			
	2	138% (+)38% [Gear 1 (+) 38%]			
Axle Diameter		13/32" Slotted			
Axle Length		183mm	160mm	148mm	183mm
Over Locknut Dimension		135mm	120mm	110mm	135mm
R: Axle Protrusion Length		26mm	20mm	19mm	24mm
L: Axle Protrusion Length		22mm	20mm	19mm	24mm
Spoke Holes		(B) 36H / (C) 32H			
Pitch Circle Diameter		67.0mm	67.0mm	67.0mm	67.0mm
Flange Width		68.3mm	56.6mm	56.6mm	68.3mm
Center to Flange	Right	35.7mm	28.3mm	26.5mm	27.7mm
	Left	32.6mm	28.3mm	30.1mm	40.6mm
Spoke Compatibility		13G & 14G	13G & 14G		13G & 14G
Sprocket Teeth		13T ~ 24T	13T ~ 24T		13 ~ 24T
Chain Line: 1/8" Flat		51.8mm	42.7mm	41.1mm	44.3mm
Chain Line: 1/8" Dished		50.0mm / 53.6mm	40.9mm / 44.5mm	39.3mm / 42.9mm	42.5mm / 46.1mm
Chain Line: 3/32" Flat		51.4mm / 52.2mm	42.3mm / 43.1mm	40.7mm / 41.5mm	43.9mm / 44.7mm
Chain Line: 3/32" Dished		49.7mm / 53.9mm	40.6mm / 44.8mm	39.0mm / 43.2mm	42.4mm / 46.2mm
Finish		Hi-Polished Anodized	Hi-Polished Anodized		Hi-Polish Anodized
Weight		1,060g	930g	920g	1,490g

S1C			
Model Name		S1C	
Model No. (Alloy Silver 36H)		CBS1C.QBSS.AA0	CBS1C.QBSL.AA0
Model No. (Alloy Silver 32H)		CBS1C.QCSS.AA0	CBS1C.QCSL.AA0
Model No. (Black 36H)		CBS1C.QBSS.BA0	CBS1C.QBSL.BA0
Model No. (Black 32H)		CBS1C.QCSS.BA0	CBS1C.QCSL.BA0
Model No. (Gold 36H)		CBS1C.QBSS.GA0	CBS1C.QBSL.GA0
Model No. (Gold 32H)		CBS1C.QCSS.GA0	CBS1C.QCSL.GA0
Model No. (Red 36H)		CBS1C.QBSS.RA0	CBS1C.QBSL.RA0
Model No. (Red 32H)		CBS1C.QCSS.RA0	CBS1C.QCSL.RA0
Model No. (Blue 36H)		CBS1C.QBSS.2A0	CBS1C.QBSL.2A0
Model No. (Blue 32H)		CBS1C.QCSS.2A0	CBS1C.QCSL.2A0
Speed		1-Speed	
Type		Coaster Brake	
Hub Shell Material		6061 Aluminum	
Axle Diameter		M10	
Axle Length		156mm	156mm
Over Locknut Dimension		116mm	119mm
R: Axle Protrusion Length		21mm	18mm
L: Axle Protrusion Length		19mm	19mm
Spoke Holes		(B) 36H / (C) 32H	(B) 36H / (C) 32H
Pitch Circle Diameter		67.0mm	67.0mm
Flange Width		56.6mm	56.6mm
Center to Flange	Right	26.1mm	24.5mm
	Left	30.5mm	32.1mm
Spoke Compatibility		13G & 14G	13G & 14G
Sprocket Teeth		13~24T	
Chain Line: 1/8" Flat		43.8mm	42.2mm
Chain Line: 1/8" Dished		42.1mm / 45.5mm	40.5mm / 43.9mm
Chain Line: 3/32" Flat		43.3mm / 44.3mm	41.7mm / 42.7mm
Chain Line: 3/32" Dished		41.6mm / 46.0mm	40.0mm / 44.4mm
Finish		Hi-Polish Anodized	Hi-Polish Anodized
Weight		1,260g	1,265g

HBT Hubs						
Model Name	HBT30 Front		HBT30 Rear			
Model No. (Alloy Silver)	HBT30.F0AB.AA0	HBT30.F0AC.AA0	HBT30.RRAB.AA0	HBT30.RRAC.AA0	HBT30.RSAB.AA0	HBT30.RSAC.AA0
Model No. (Black)	HBT30.F0AB.BA0	HBT30.F0AC.BA0	HBT30.RRAB.BA0	HBT30.RRAC.BA0	HBT30.RSAB.BA0	HBT30.RSAC.BA0
Model No. (Gold)	HBT30.F0AB.GA0	HBT30.F0AC.GA0	HBT30.RRAB.GA0	HBT30.RRAC.GA0	HBT30.RSAB.GA0	HBT30.RSAC.GA0
Model No. (Red)	HBT30.F0AB.RA0	HBT30.F0AC.RA0	HBT30.RRAB.RA0	HBT30.RRAC.RA0	HBT30.RSAB.RA0	HBT30.RSAC.RA0
Model No. (Blue)	HBT30.F0AB.2A0	HBT30.F0AC.2A0	HBT30.RRAB.2A0	HBT30.RRAC.2A0	HBT30.RSAB.2A0	HBT30.RSAC.2A0
Hub Shell Material	6061 Aluminum		6061 Aluminum		6061 Aluminum	
Bearing	Sealed Cartridge		Sealed Cartridge		Sealed Cartridge	
Axle Material	Chromoly		Chromoly		Chromoly	
Axle Diameter	9mm		10mm		10mm	
Axle Length	145mm		175mm		165mm	
Over Lock Dimension	100mm		130mm		120mm	
Spoke Holes	(B) 36H	(C) 32H	(B) 36H	(C) 32H	(B) 36H	(C) 32H
Pitch Circle Diameter	61.5mm		61.5mm		61.5mm	
Flange Width	70.6mm		66.6mm		66.6mm	
Center to Flange	Right	35.3mm	33.3mm		33.3mm	
	Left	35.3mm	33.3mm		33.3mm	
Finish	Hi-Polish Anodized		Hi-Polish Anodized		Hi-Polish Anodized	
Average Weight	270g		335g		325g	

Model Name	HBT20 Rear			
Model No. (Alloy Silver)	HBT20.RRAB.AA0	HBT20.RRAC.AA0	HBT20.RSAB.AA0	HBT20.RSAC.AA0
Model No. (Black)	HBT20.RRAB.BA0	HBT20.RRAC.BA0	HBT20.RSAB.BA0	HBT20.RSAC.BA0
Model No. (Gold)	HBT20.RRAB.GA0	HBT20.RRAC.GA0	HBT20.RSAB.GA0	HBT20.RSAC.GA0
Model No. (Red)	HBT20.RRAB.RA0	HBT20.RRAC.RA0	HBT20.RSAB.RA0	HBT20.RSAC.RA0
Model No. (Blue)	HBT20.RRAB.2A0	HBT20.RRAC.2A0	HBT20.RSAB.2A0	HBT20.RSAC.2A0
Hub Shell Material	6061 Aluminum		6061 Aluminum	
Bearing	Sealed Cartridge		Sealed Cartridge	
Axle Material	Chromoly		Chromoly	
Axle Diameter	10mm		10mm	
Axle Length	175mm		165mm	
Over Lock Dimension	130mm		120mm	
Spoke Holes	(B) 36H	(C) 32H	(B) 36H	(C) 32H
Pitch Circle Diameter	61.5mm		61.5mm	
Flange Width	66.6mm		66.6mm	
Center to Flange	Right	33.3mm	33.3mm	
	Left	33.3mm	33.3mm	
Finish	Hi-Polish Anodized		Hi-Polish Anodized	
Average Weight	335g		325g	

Single Speed Freewheel

Model Name	SFX30	
Model No. (13T)	SFX30.W130.CA0	SFX30.N130.CA0
Model No. (14T)	SFX30.W140.CA0	SFX30.N140.CA0
Model No. (15T)	SFX30.W150.CA0	SFX30.N150.CA0
Chain Size	1/2" x 1/8"	1/2" x 3/32"
Driver	3 Pawls	
Outer Body Cog	Chromoly Cold Forged Steel	
Inner Body	Chromoly Cold Forged Steel	
Screw Cap	Steel	
Bearing	Loose Ball	
Thread	M30 x P1.0	
Finish	Chrome Plated	
Average Weight	103g (16T)	97g (16T)

Model Name	SFS30	
Model No. (16T)	SFS30.W160.CA0	SFS30.N160.CA0
Model No. (17T)	SFS30.W170.CA0	SFS30.N170.CA0
Model No. (18T)	SFS30.W180.CA0	SFS30.N180.CA0
Model No. (19T)	SFS30.W190.CA0	SFS30.N190.CA0
Model No. (20T)	SFS30.W200.CA0	SFS30.N200.CA0
Model No. (21T)	SFS30.W210.CA0	SFS30.N210.CA0
Model No. (22T)	SFS30.W220.CA0	SFS30.N220.CA0
Chain Size	1/2" x 1/8"	1/2" x 3/32"
Driver	2 Pawls	
Outer Body Cog	Cold Forged Steel	
Inner Body	Cold Forged Steel	
Screw Cap	Steel	
Bearing	Loose Ball	
Thread	BC1.37 x 24TPI	
Finish	Chrome Plated	
Average Weight	194g (16T)	186g (16T)

Front Drum Brake Hubs

Model Name	XL-FD	X-FD	
Model No.	THSLD.FBSS.AA0	THSXD.FBSS.AA1	THSXD.FBLS.AA1
Model No. (High Polish)	THSLD.FBSS.HA0	THSXD.FBSS.HA1	THSXD.FBLS.HA1
Brake Type	90mm Drum Brake	70mm Drum Brake	
Hub Shell Material	A356 Aluminum	A356 Aluminum	
Bearing Type	Sealed Cartridge	Sealed Cartridge	
Axle Type	Solid Nutted	Solid Nutted	
Axle Diameter	9mm	9mm	
Axle Length	136mm	136mm	152mm
Over Locknut Dimension	100mm	100mm	
Spoke Holes	(B) 36H	(B) 36H	
Pitch Circle Diamter	109.0mm	89.8mm	
Flange Width	58mm	58mm	
Center to Flange	Right	32.0mm	29mm
	Left	26.0mm	29mm
Spoke Compatibility	13G & 14G	13G & 14G	
Finish	Natural Alloy	Natural Alloy	
Weight	970g	770g	780g

Rear Drum Brake Hubs			
Model Name	X-RD		X-RDC
Model No.	THSXD.RBAS.AA0	THSXD.7BSS.AA0	THSXD.CBLS.AA0
Brake Type	70mm Drum Brake		70 mm Drum Brake
Usage	1-Speed Freewheel	7-Speed Freewheel	9/8-Speed Cassette
Hub Shell Material	A356 Aluminum		A356 Aluminum
Bearing Type	Sealed Cartridge		Sealed Cartridge
Axle Type	Solid Nutted		Solid Nutted
Axle Diameter	9mm		10mm
Axle Length	154mm	183mm	185mm
Over Locknut Dimension	119mm	135mm	135mm
R: Axle Protrusion Length	17.5mm	24mm	25mm
L: Axle Protrusion Length	17.5mm	24mm	25mm
D-Dimension	27.5mm	38mm	41mm
Spoke Holes	(B) 36H		(B) 36H
Pitch Circle Diameter	89.8mm		89.8mm
Flange Width	64.2mm		64.2mm
Center to Flange	Right	26.0mm	20.7mm
	Left	38.2mm	43.5mm
Spoke Compatibility	13G & 14G		13G & 14G
Finish	Natural Alloy		Natural Alloy
Weight	795g	835g	950g

Side Drum Brake Hubs						
Model Name	XL-SD					
Model No.	THH90.LBQS.AA3	THH90.RBQS.AA3	THH80.LBSS.AA3	THH80.RBSS.AA3	THH80.LBCS.AA3	THH80.RBCS.AA3
Model No. (High Polish)	THH90.LBQS.HA3	THH90.RBQS.HA3	×	×	×	×
Brake Type	90mm Drum Brake		90mm Drum Brake		90mm Drum Brake	
Side	Left	Right	Left	Right	Left	Right
Axle Type	HSL819 Quick-Release		HSL881 Solid Nuted		HSL885 Solid Nuted	
Axle Diameter / Type	12mm (16mm Base)		12mm		12mm	
Axle Length	150mm		130mm (excl. M19 Hex Bolt Head of 4mm)		100mm (excl. M19 Hex Bolt Head of 4mm)	
Axle Protrusion Length	62mm (incl.12mm QR protrusion from base)		50mm		20mm	
Hub Shell Material	A356 Aluminum		A356 Aluminum		A356 Aluminum	
Bearing Type	6001-ZZ Sealed Cartridge x2		6001-ZZ Sealed Cartridge x2		6001-ZZ Sealed Cartridge x2	
Spoke Holes	(B) 36H		(B) 36H		(B) 36H	
Pitch Circle Diameter	109.0mm		109.0mm		109.0mm	
Flange Width	53mm		53mm		53mm	
Spoke Compatibility	13G & 14G		13G & 14G		13G & 14G	
Finish	Natural Alloy		Natural Alloy		Natural Alloy	
Weight	1,020g	1,020g	960g	960g	935g	935g

Side Drum Brake Hubs						
Model Name	X-SD [X-FD(H)]					
Model No.	THH60.LBQS.AA3	THH60.RBQS.AA3	THH50.LBSS.AA3	THH50.RBSS.AA3	THH50.LBCS.AA3	THH50.RBCS.AA3
Brake Type	70mm Drum Brake		70mm Drum Brake		70mm Drum Brake	
Side	Left	Right	Left	Right	Left	Right
Axle Type	HSL819 Quick-Release		HSL881 Solid Nuted		HSL885 Solid Nuted	
Axle Diameter / Type	12mm (16mm Base)		12mm		12mm	
Axle Length	150mm		130mm (excl. M19 Hex Bolt Head of 4mm)		100mm (excl. M19 Hex Bolt Head of 4mm)	
Axle Protrusion Length	62mm (incl.12mm QR protrusion from base)		50mm		20mm	
Hub Shell Material	A356 Aluminum		A356 Aluminum		A356 Aluminum	
Bearing Type	6001-ZZ Sealed Cartridge x2		6001-ZZ Sealed Cartridge x2		6001-ZZ Sealed Cartridge x2	
Spoke Holes	(B) 36H		(B) 36H		(B) 36H	
Pitch Circle Diameter	89.8mm		89.8mm		89.8mm	
Flange Width	54mm		54mm		54mm	
Spoke Compatibility	13G & 14G		13G & 14G		13G & 14G	
Finish	Natural Alloy		Natural Alloy		Natural Alloy	
Weight	790g	790g	730g	730g	705g	705g

Front Cranksets FCS		
Model No.	FCSS2	FCSS1
Number of Teeth	56T Flat	54T Flat or Dished*
Chainring Material	Aluminum	
Removable Chainring	●	
Crank Style	Polished 5-Arm Spider	
Crank Arm Material	Aluminum Forged / High-Polished Anodized	
Crank Arm Length	170mm	
Chainring Bolts / Nuts	SCM435 Chromoly	
Bolt Circle Diameter	130mm	
Chain	1/2" x 3/32"	
Chainguard Outer	Aluminum	Aluminum
Chainguard Inner	×	Aluminum
Bottom Bracket (Optional)	Model	BBS18 / BBS15 (Sun Race)
	Shell Width	(S) 68mm (S) 68mm
	Spindle Length	(K) 119mm (G) 113 / (K) 119mm*
	Chain Line	45mm 45mm
Weight (Right)	435g	425g
Weight (Left)	205g	205g
Total Weight	640g	630g

*CG versions require Dished Chainring and 113mm Spindle.

Front Cranksets FCS								
Model No.	FCS750	FCS752	FCS740	FCS741	FCS742	FCS720	FCS721	FCS722
Number of Teeth	44T		44T	44T	44T	42T	42T	42T
Chainring Material	Aluminum		Hi-Tensile Steel			Hi-Tensile Steel		
Removable Chainring	●		●			●		
Crank Style	4-Arm Spider Crank		4-Arm Spider Crank			4-Arm Spider Crank		
Crank Arm Material	Aluminum Forged / High-Polished Anodized		Aluminum Forged / High-Polished Anodized			Aluminum Forged / High-Polished Anodized		
Crank Arm Length	175mm / 170mm		175mm / 170mm			175mm / 170mm		
Chainring Bolts / Nuts	SCM435 Chromoly		SCM435 Chromoly			SCM435 Chromoly		
Bolt Circle Diameter	104mm		104mm			104mm		
Chain	1/2" x 3/32"		1/2" x 3/32"			1/2" x 3/32"		
Outer Chainguard	×	Aluminum	×	Steel	Aluminum	×	Steel	Aluminum
InnerChainguard (Optional)	×	Aluminum	×	Steel	Steel	×	Steel	Steel
Bottom Bracket (Optional)	Model	BBS18 / BBS15 (Sun Race)	BBS18 / BBS15 (Sun Race)			BBS18 / BBS15 (Sun Race)		
	Shell Width	(S) 68mm	(S) 68mm			(S) 68mm		
	Spindle Length	(H) 116mm (F) 111mm	(F) 111mm	(5) 115mm	(5) 115mm	(F) 111mm	(5) 115mm	(5) 115mm
	Chain Line	45mm		45mm			45mm	
Total Weight	558g	610g	734g	888g (w.OCG)	786g (w.OCG)	719g	873g (w.OCG)	771g (w.OCG)

Front Cranksets FCS					
Model No.	FCS450	FCS452	FCS440	FCS441	FCS442
Number of Teeth	44T		44T	44T	44T
Chainring Material	Aluminum		Hi-Tensile Steel		
Removable Chainring	●		●		
Crank Style	4-Arm Spider Crank		4-Arm Spider Crank		
Crank Arm Material	Aluminum Forged / High-Polished Anodized		Aluminum Forged / High-Polished Anodized		
Crank Arm Length	175mm / 170mm		175mm / 170mm		
Chainring Bolts / Nuts	SCM435 Chromoly		SCM435 Chromoly		
Bolt Circle Diameter	104mm		104mm		
Chain	1/2" x 3/32"		1/2" x 3/32"		
Outer Chainguard	×	Aluminum	×	Steel	Aluminum
InnerChainguard (Optional)	×	Aluminum	×	Steel	Steel
Bottom Bracket (Optional)	Model	BBS18 / BBS15 (Sun Race)		BBS18 / BBS15 (Sun Race)	
	Shell Width	(S) 68mm		(S) 68mm	
	Spindle Length	(H) 116mm	(F) 111mm	(F) 111mm	(5) 115mm (5) 115mm
	Chain Line	45mm		45mm	
Weight (Right)	355g	407g	503g	699g	597g
Weight (Left)	210g	210g	210g	210g	210g
Total Weight	565g	617g	713g	909g (w.OCG)	807g (w.OCG)

Front Cranksets FCS								
Model No.	FCS602	FCS603	FCS606	FCS608	FCS612	FCS613	FCS616	FCS618
Number of Teeth	42T	33T	36T	38T	42T	33T	36T	38T
Chainring Material	Steel				Steel			
Crank Arm Material	Aluminum Forged / High-Polished Anodized				Aluminum Forged / High-Polished Anodized			
Crank Arm Length	175mm / 170mm				175mm / 170mm			
Cover Ring Diameter	(2) 92 / (5) 95 mm				(2) 92 / (5) 95 mm			
Chain Size	1/2" x 3/32"				1/2" x 1/8"			
Chain Guard Option	×				×			
Bottom Bracket (Optional)	Model	BBS15 (Sun Race)			BBS15 (Sun Race)			
	Shell Width	(S) 68mm			(S) 68mm			
	Spindle Length	(P) 123mm			(P) 123mm			
	Chain Line	45mm			45mm			
Total Weight	747g	665g	693g	719g	749g	667g	695g	722g

Front Cranksets FCT					
Model No.		FCT88	FCT86	FCT84	FCT82
Crank Arm Spline Type		Integrated ISIS External BB	Integrated ISIS External BB	Integrated ISIS External BB	Integrated ISIS External BB
Number of Teeth		48T	46T	44T	42T
Chainring Material		7075 Aluminum			
Chainring Finish		(A) High Polish Anodized Alloy Silver / (D) Anodized Black + CNC			
Crank Arm Material		Forged Aluminum			
Crank Arm Finish		High Polish Anodized (A) Alloy / (B) Black / (G) Gold / (R) Red / (2) Blue			
Crank Arm Length		172.5 / 170 / 165mm	172.5 / 170 / 165mm	172.5 / 170 / 165mm	172.5 / 170 / 165mm
Chainring Bolts & Nuts		7075 Aluminum / Anodized	7075 Aluminum / Anodized	7075 Aluminum / Anodized	7075 Aluminum / Anodized
Bolt Circle Diameter		144mm	144mm	144mm	144mm
Chain Size		1/2" x 1/8"	1/2" x 1/8"	1/2" x 1/8"	1/2" x 1/8"
Bottom Bracket (Optional)	Model	BBRS	BBRS	BBRS	BBRS
	Adapter	Aluminum / Silver Anodized	Aluminum / Silver Anodized	Aluminum / Silver Anodized	Aluminum / Silver Anodized
	Shell Width	BSA 68mm	BSA 68mm	BSA 68mm	BSA 68mm
	Chain Line	42.0mm	42.0mm	42.0mm	42.0mm
	Weight	112g	112g	112g	112g
Weight (R)		558g (170)	550g (170)	527g (170)	525g (170)
Weight (L)		235g (170)	235g (170)	235g (170)	235g (170)
Total Average Weight		905g (170)	897g (170)	874g (170)	872g (170)

Front Cranksets FCT											
Model No.		FCT68		FCT66		FCT64		FCT62			
Crank Arm Spline Type		Square Taper		Square Taper		Square Taper		Square Taper			
Number of Teeth		48T		46T		44T		42T			
Chainring Material		7075 Aluminum									
Chainring Finish		(A) High Polish Anodized Alloy Silver / (D) Anodized Black + CNC									
Crank Arm Material		Forged Aluminum									
Crank Arm Finish		High Polish Anodized (A) Alloy / (B) Black / (G) Gold / (R) Red / (2) Blue / (3) Purple									
Crank Arm Length		172.5 / 170 / 165mm		172.5 / 170 / 165mm		172.5 / 170 / 165mm		172.5 / 170 / 165mm			
Chainring Bolts & Nuts		7075 Aluminum / Anodized		7075 Aluminum / Anodized		7075 Aluminum / Anodized		7075 Aluminum / Anodized			
Bolt Circle Diameter		144mm		144mm		144mm		144mm			
Chain Size		1/2" x 1/8"		1/2" x 1/8"		1/2" x 1/8"		1/2" x 1/8"			
Bottom Bracket (Optional)	Model	BBS18		BBS18		BBS18		BBS18			
	Shell Width	(S) 68mm		(S) 68mm		(S) 68mm		(S) 68mm			
	Spindle Length	(A) 103mm	(B) 107mm	(A) 103mm	(B) 107mm	(A) 103mm	(B) 107mm	(A) 103mm	(B)107mm		
	Chain Line	42.0mm	43.5mm	42.0mm	43.5mm	42.0mm	43.5mm	42.0mm	43.5mm		
Weight (R)		455g (170)		447g (170)		424g (170)		426g (170)			
Weight (L)		238g (170)		238g (170)		238g (170)		238g (170)			
Total Average Weight		693g (170)		685g (170)		662g (170)		664g (170)			

Front Cranksets FCT											
Model No.		FCT48		FCT46		FCT44		FCT42			
Crank Arm Spline Type		Square Taper		Square Taper		Square Taper		Square Taper			
Number of Teeth		48T		46T		44T		42T			
Chainring Material		7075 Aluminum									
Chainring Finish		Anodized Black + CNC									
Crank Arm Material		Forged Aluminum									
Crank Arm Finish		High Polish Anodized (A) Alloy Silver / (B) Black									
Crank Arm Length		172.5 / 170 / 165mm		172.5 / 170 / 165mm		172.5 / 170 / 165mm		172.5 / 170 / 165mm			
Chainring Bolts & Nuts		7075 Aluminum / Anodized		7075 Aluminum / Anodized		7075 Aluminum / Anodized		7075 Aluminum / Anodized			
Bolt Circle Diameter		144mm		144mm		144mm		144mm			
Chain Size		1/2" x 1/8"		1/2" x 1/8"		1/2" x 1/8"		1/2" x 1/8"			
Bottom Bracket (Optional)	Model	BBS18		BBS18		BBS18		BBS18			
	Shell Width	(S) 68mm		(S) 68mm		(S) 68mm		(S) 68mm			
	Spindle Length	(A) 103mm	(B) 107mm	(A) 103mm	(B) 107mm	(A) 103mm	(B) 107mm	(A) 103mm	(B)107mm		
	Chain Line	42.0mm	43.5mm	42.0mm	43.5mm	42.0mm	43.5mm	42.0mm	43.5mm		
Weight (R)		527g (170)		499g (170)		476g (170)		450g (170)			
Weight (L)		238g (170)		238g (170)		238g (170)		238g (170)			
Total Average Weight		765g (170)		737g (170)		714g (170)		688g (170)			

Front Cranksets FCT					
Model No.		FCT28	FCT26	FCT24	FCT22
Crank Arm Spline Type		Square Taper	Square Taper	Square Taper	Square Taper
Number of Teeth		48T	46T	44T	42T
Chainring Material		7075 Aluminum			
Chainring Finish		Anodized Black + CNC			
Crank Arm Material		Forged Aluminum			
Crank Arm Finish		Hi-Polish Anodized (A) Alloy Silver / (B) Black			
Crank Arm Length		172.5 / 170 / 165mm	172.5 / 170 / 165mm	172.5 / 170 / 165mm	172.5 / 170 / 165mm
Chainring Bolts & Nuts		SCM435 Chromoly	SCM435 Chromoly	SCM435 Chromoly	SCM435 Chromoly
Bolt Circle Diameter		130mm	130mm	130mm	130mm
Chain Size		1/2" x 1/8"	1/2" x 1/8"	1/2" x 1/8"	1/2" x 1/8"
Bottom Bracket (Optional)	Model	BBS15	BBS15	BBS15	BBS15
	Shell Width	(S) 68mm	(S) 68mm	(S) 68mm	(S) 68mm
	Spindle Length	(A) 103mm	(A) 103mm	(A) 103mm	(A) 103mm
	Chain Line	43.5mm	43.5mm	43.5mm	43.5mm
Weight (R)		566g (170)	541g (170)	516g (170)	491g (170)
Weight (L)		210g (170)	210g (170)	210g (170)	210g (170)
Total Weight		776g (170)	751g (170)	726g (170)	701g (170)

Front Cranksets FCT					
Model No.		FCT18	FCT16	FCT14	FCT12
Crank Arm Spline Type		Square Taper	Square Taper	Square Taper	Square Taper
Number of Teeth		48T	46T	44T	42T
Chainring Material		7075 Aluminum			
Chainring Finish		Anodized Black + CNC			
Crank Arm Material		Forged Aluminum			
Crank Arm Finish		Sandblast Anodized Matt Black			
Crank Arm Length		172.5 / 170 / 165mm	172.5 / 170 / 165mm	172.5 / 170 / 165mm	172.5 / 170 / 165mm
Chainring Bolts & Nuts		SCM435 Chromoly	SCM435 Chromoly	SCM435 Chromoly	SCM435 Chromoly
Bolt Circle Diameter		130mm	130mm	130mm	130mm
Chain Size		1/2" x 1/8"	1/2" x 1/8"	1/2" x 1/8"	1/2" x 1/8"
Bottom Bracket (Optional)	Model	BBS15	BBS15	BBS15	BBS15
	Shell Width	(S) 68mm	(S) 68mm	(S) 68mm	(S) 68mm
	Spindle Length	(A) 103mm	(A) 103mm	(A) 103mm	(A) 103mm
	Chain Line	43.5mm	43.5mm	43.5mm	43.5mm
Weight (R)		568g (170)	543g (170)	518g (170)	493g (170)
Weight (L)		211g (170)	211g (170)	211g (170)	211g (170)
Total Weight		779g (170)	754g (170)	729g (170)	704g (170)

Bottom Brackets

Model No.		BBS18	BBS15
Type		Square Taper	Square Taper
Material	Axle	Steel	Steel
	Cups	Aluminum	Steel
	Sleeve	Aluminum (Cylindrical)	Steel (Cylindrical)
	Stopper	Engineering Polymers	Engineering Polymers
Bearing		Sealed Cartridge (x2)	Sealed Cartridge (x2)
Cup Thread		(B) BSA: BC1.37x24T	(B) BSA:BC1.37x24T
Shell Width		(S) 68mm	(S) 68mm
Spindle Length		(A) 103mm / (B) 107mm	(A) 103mm / (B) 107mm
Axle Thread		M8 x P1.0	M8 x P1.0
Axle Bolt		Standard: BAS05 / Optional: BAS15	Standard: BAS05 / Optional: BAS15
Finish		(S) Silver Alloy	(C) Chrome
Average Weight		260g (68/L103mm)	338g (68/L103mm)

Chain Tensioners				
Model Name	CTS8X		CTS86	CTS70
Model No.	CTS8X SD (B)	CTS8X SD (S)	CTS80 SD (B)	CTS70 SD (B)
Cage Type	(S) Short		(S) Short	(S) Short
Mounting Type	(D) Direct		(D) Direct	(D) Direct
Speeds	Single		Single	Single
Chain Size	1/2" x 3/32"		1/2" x 3/32"	1/2" x 3/32"
Max. Rear Sprocket	25T		25T	25T
Min. Rear Sprocket	18T		18T	18T
Link	Forged 6061 Aluminum		Forged 6061 Aluminum	Forged 6061 Aluminum
Outer Plate Cage	Aluminum / CNC		Aluminum / CNC	Steel
Innter Plate Cage	Aluminum		Aluminum	Steel
Bracket Bolt	7075 Aluminum / Gold Anodized		7075 Aluminum / Silver Anodized	7075 Aluminum / Silver Anodized
Guide Pulley	11T / 7075 / Sealed Cartridge Bearing		11T	11T
Tension Pulley	11T / 7075 / Sealed Cartridge Bearing		11T	11T
Applicable Dropout Width	5~9mm		5~9mm	5~9mm
Finish	(B) Black	(S) Silver-Black	(B) Black	(B) Black
Average Weight	168g		168g	200 g