

Sturmey
Archer 

www.sturmey-archer.com

www.sturmey-archerheritage.com

The Original And Best

Since. 1902

2006-2007 Product Catalogue



Introduction



STURMEV- ARCHER

The Original And Best
Since 1902

Sir Frank Bowden had purchased a bicycle company initially located in Raleigh Street, Nottingham, England. Sir Frank Bowden worked with ideas from Mr. Henry Sturmev and Mr. James Archer which resulted in the first Sturmev-Archer 3-speed bicycle gear hub patent in 1902.

In an effort to preserve the heritage of Sturmev-Archer and to record the various types of Sturmev-Archer cycle hubs, transmissions, and engines produced during the 20th century, we have introduced a new web site, www.sturmev-archerheritage.com.

This website is intended to be a more pictorial history. Mr. Tony Hadland's book "The Sturmev-Archer Story" from 1987 has much more detail of the Sturmev-Archer history.

In the heritage web site, the hub products have been listed in order of year of introduction (or patent application). There is also an exploded view hub drawing or full technical manual for more recent products. Some views of the factory production areas are included although the dates of these are not always accurately known. Sales and advertising aids are also shown, around their approximate date of use.

Continuing with the tradition and heritage that dates back to 1902, this catalogue is current product line for 2006-2007. www.sturmev-archer.com

The Original and Best

HU



Stick Shifters



CL531

CL530

CL535

CL53M

New family of Stick Shifter Lever.

- For use with Sturmey-Archer 3 speed hubs include S30/S3S series hubs and new Cruiser Hubs, Tricycle Hubs, and Quadricycle Hubs.
- The unique design allows easy shifting with style.
- Patented shifting body allows shifter to be fitted away from the handlebar.
- Curved or straight, alloy or steel, 4 styles to chose from.
- Mounting bracket is not supplied.

Cruiser Hubs



SX-RK3

SX-RB3

New family of Cruiser Hubs.

- Traditional 3 speed in new beautifully shaped super oversize alloy shell.
- Extra width to fit super wide tires.
- Disk brake type available.
- Band brake type available.



series
S

2006 New Products



Tricycle Hubs



TS-RF3



TS-RB3



TS-RC3



New family of 3 Speed Tricycle Hubs.

- Perfect as transmission for Tricycles.
- Pre-assembled 2nd sprocket.
- Alloy shell body.
- Compatible to all S30/S3S shifters and CLS shifters.
- Freewheel type, band brake type, coaster brake type available.

Quadricycle Hub



QS-RC3



New hub with reverse gear.

- Unique built-in mechanism make reverse cycling possible.
- Features coaster brake function.
- Alloy shell body.
- Different O.L.D. can be custom ordered.
- Compatible to CLS shifters and all S30/S3S shifters.

Drum Brake Hubs



X-FDH



X-FDH

New family of drum brake hubs for recumbent and special applications.

- With built in 70mm drum brake.
- Quick-release type available.
- Stub axle type available.
- Without axles available hub is available.
- Alloy shell body.
- Sealed cartridge bearings.



X-RDC

World's first Rear Drum Brake Hub for use with Derailleur/Cassette systems.

- With built in 70mm drum brake.
- For use with 9 and 8 speed cassettes.
- 7 speed cassettes can be used with an optional adapter.
- Alloy shell body.
- Sealed cartridge bearings.

Trigger Shifters



DL550



DLC34

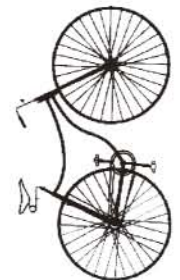


DL530



New family of trigger shifters for use with internal gear hubs.

- Featuring gear indicator platform positioned on the top of the handlebar.
- Compatible with all 5 speed.(DL550)
- Compatible with C30 Rotary 3 speeds. (DLC34)
- Compatible with all S30/S3S hub.(DL530)
- Compatible with Cruiser Hubs, Tricycle & Quadricycle Hubs.



CONTENT

Sturney Archer

X-FDD



Dynohub Drum Brake.

P.1

S80



8 Speed Hubs.

P.3

S50 S5S



5 Speed Hubs.

P.6

C30



Rotary 3 Speed Hubs.

P.9

CONTENT

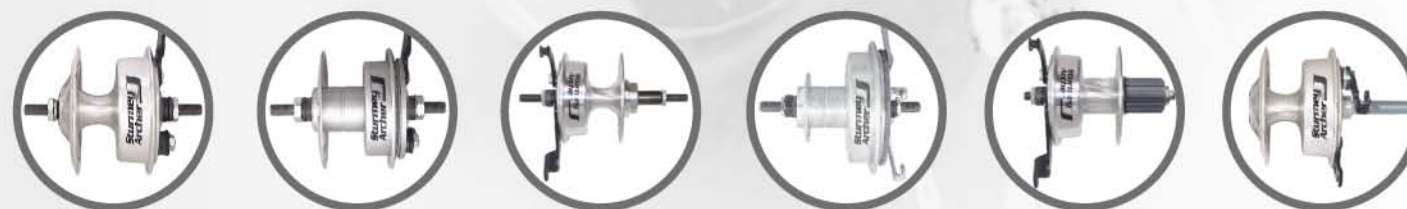
S30 S3S



Classic 3 Speed Hubs.

P.12

Drum Brake Hubs



Front and Rear Drum Brake Hubs.

P.17

Cranksets



Front Chainwheels.

P.18

Parts

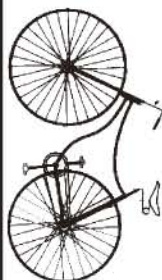


Fittings.

P.19

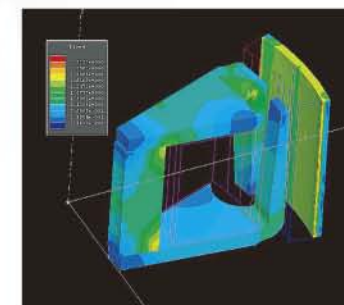
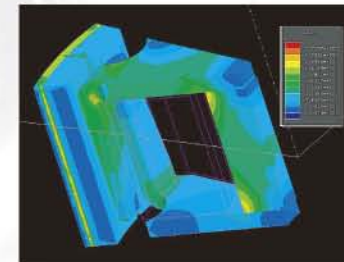
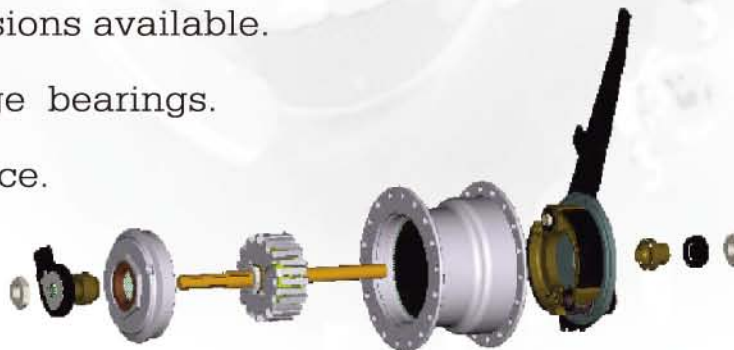
Specifications

P.28

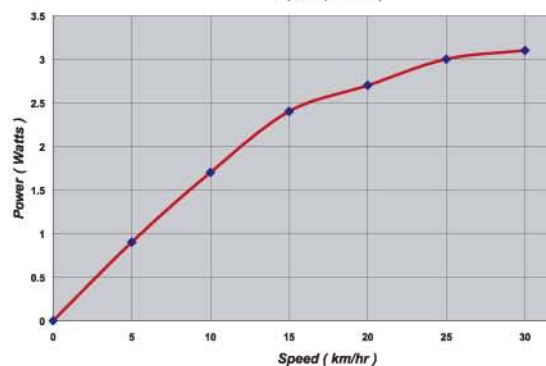
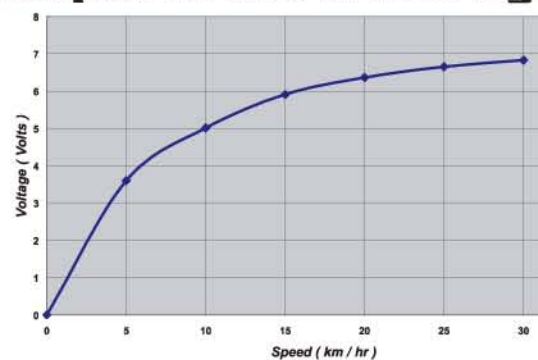


Features of X-FDD

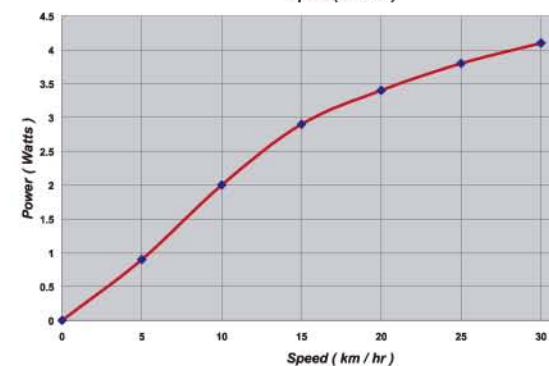
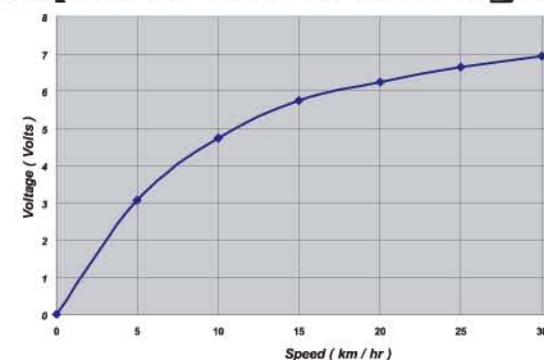
- World's first integrated dynohub & drum Brake.
- Totally sealed against weather conditions.
- 2.4W and 3.0W versions available.
- With sealed cartridge bearings.
- Low rolling resistance.



Output of 2.4 W Hub Dynamo



Output of 3.0 W Hub Dynamo



Dynahub Drum Brake

X-FDD
Sturney Archer



X-FDD 6V*3.0W
HDS31T
70mm Front Drum Brake Hub
[Sealed Cartridge Bearing]

X-FDD 6V*2.4W
HDS21T
70mm Front Drum Brake Hub
[Sealed Cartridge Bearing]



HMN386
3899.0000.096



HMW527
3809.0405.078



HMW528
3809.0405.081



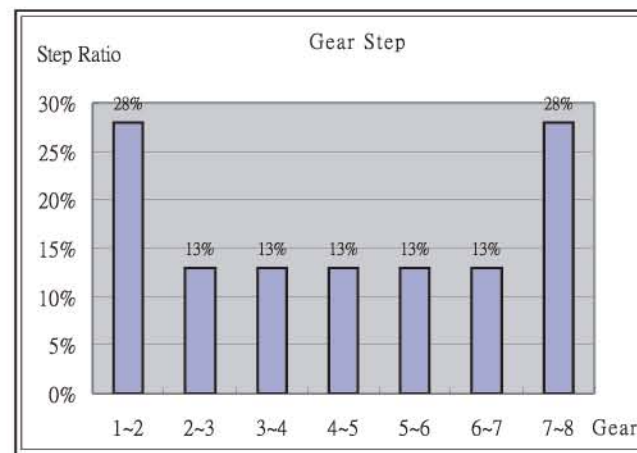
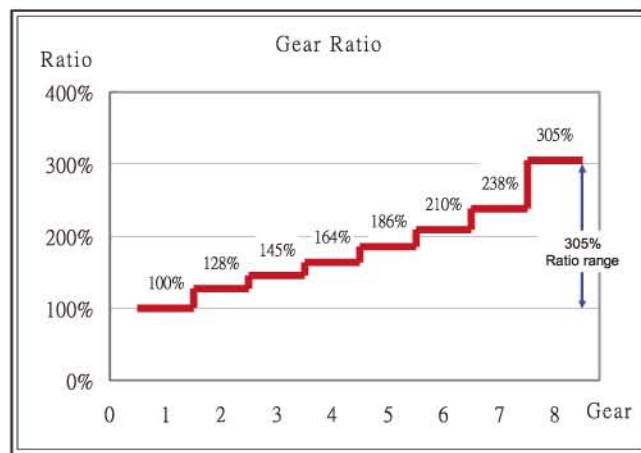
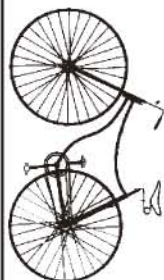
Washer 1/16"
HMW146
3809.0405.012



series
S

Features of S80

- New ergonomically designed easy to read shifter.
- 8 speed internal gear hubs.
- New patented modular technology.
- Wide gear ratio of 305%.
- Logical gear steps 28%,13%,13%,13%,13%,13%,28%.
- Rotary gear changer.
- Easy gear changer with low change load.
- Allows use of smaller chainwheels.
- Available with drum brake, use with roller brake or disk brake.



8 Speed

S80 Suntory Archer



TSS80
HSJ911



X-RD8
8 Speed
70mm Rear Drum Brake Hub



X-RR8
8 Speed
Roller Brake Hub



X-RF8[S]
8 Speed Hub
[Standard Axle]



X-RF8[C]
8 Speed Hub
[Short Axle]



X-RK8
8 Speed
Disk Brake Hub



8 Speed Parts



HSL801
3899.0000.162

HSL802
3899.0000.163



C-Clip
HSL789
3809.0705.013



Fulcrum Lever (Angled Fork End 38°)
HSJ938
3810.0190.005



19T CP 3/32"
HSL873
3802.0215.028



23T CP 1/8"
HSL821
3802.0215.001

23T CP 3/32"
HSL868
3802.0215.003



Lock Washer
13/32"*4mm*9.5mm
HMW518
3809.0405.041



Fulcrum Lever (Horizontal Fork End)
HSJ910
3810.0190.004



25T CP 1/8"
HSL822
3802.0215.002

25T CP 3/32"
HSL867
3802.0215.004



Washer
HMW520
3809.0405.048



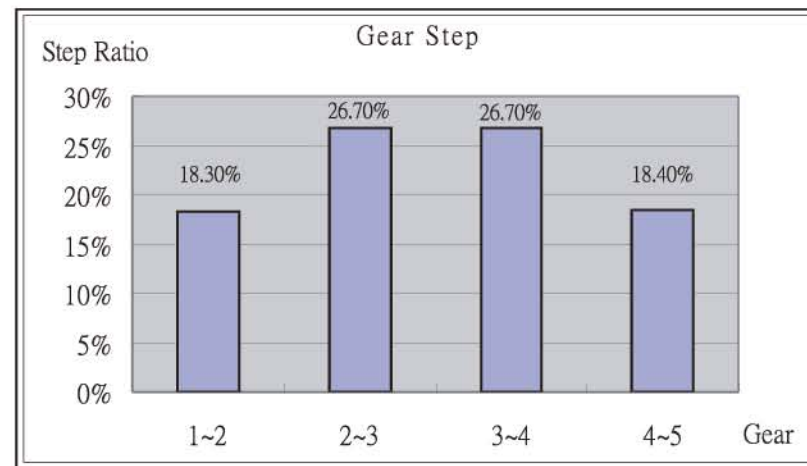
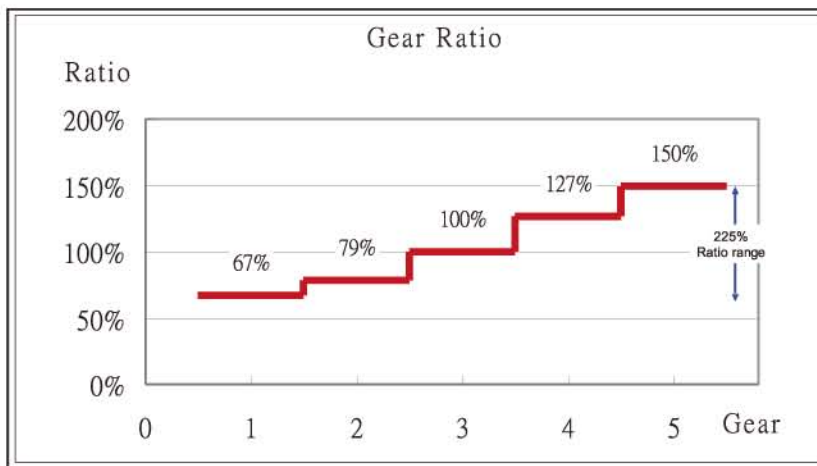
Sprocket Circlip
HSL788
3809.0705.012

Fitting Sets

HFIS8HSSSO						
	HSJ910	HMW520	HSL789	HSL788	HMN388 (x 2)	HMW518 (x 2)
HFIS8HSBSO						
	HSJ910	HMW520	HSL789	HSL788	HMN388 (x 2) HMN405	HMW518 (x 2)
HFIS8ASSSO						
	HSJ938	HMW520	HSL789	HSL788	HMN388 (x 2)	HMW518 (x 2)
HFIS8ASBSO						
	HSJ938	HMW520	HSL789	HSL788	HMN388 (x 2) HMN405	HMW518 (x 2)

Features of S50/S55

- New trigger shifter.
- 5 speed internal gear hubs.
- Patented ball locking technology.
- Gear ratio of 225%.
- Available with drum brake, use with disk brake.



S Sturmey Archer **50**

5 Speed Alloy

S Sturmey Archer **55**

Steel



DLS50
HSJ942



TSS54
HSJ930



SLS5N
HSJ839
Nimbus 5 Thumb Shifter



X-RF5
5 Speed Hub



X-RK5
5 Speed
Disk Brake Hub



S5
5 Speed Hub



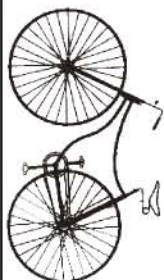
X-RD5
5 Speed
70mm Rear Drum Brake Hub



AB5
5 Speed
90mm Rear Drum Brake Hub

S

series



5 Speed Parts

S Sturmey Archer **50** & **S** Sturmey Archer **55**



Gear Selector Guide Full Cover
HSA620
3810.0505.019



Fulcrum Lever With Locating Washer
HSJ905
3810.0105.011



Lock Washer
13/32" * 4mm * 9.5mm
HMW518
3809.0405.041



Mark Blue
HSA317
3810.0605.008



Gear Selector Guide
HSA646
3899.0000.297



Nut
HMN128
3909.0205.006



Mark Yellow
HSA585
3810.0605.009



Sprocket Circlip
HSL721
3809.0705.005
3809.0707.002[Xylan]



Sprocket Options
see page 23



Dome Nut
HMN388
3899.0000.095



series
S

Fitting Sets

HFIS5BSSS0



HSA317



HSL721



HSA646



HMN128



HSJ905



HSA620



HMN388



HMW518 (x 2)

HFIS5YSSS0



HSA585



HSL721



HSA646



HMN128



HSJ905



HSA620



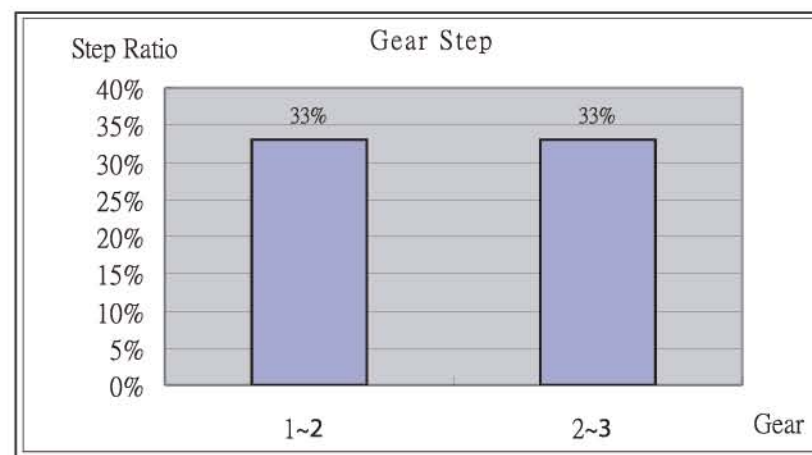
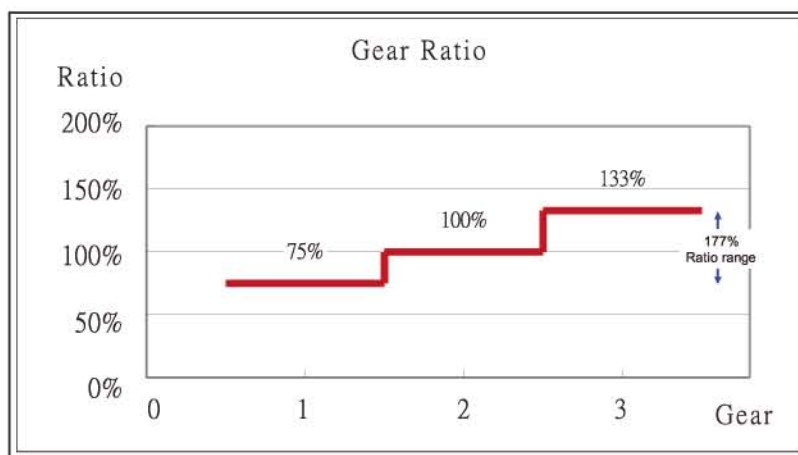
HMN388



HMW518 (x 2)

Features of C30

- Rotary selector 3 speed hubs.
- New trigger shifter.
- Available with drum brake, coaster brake.
- Gear ratio of 177%.



Rotary 3 Speed Alloy

C30 Sunmeyer Archer



DLC34
HSJ940



TSS34
HSJ931



RS-RF3
3 Speed Hub



RS-RC3
3 Speed
Coaster Brake Hub



RX-RD3
3 Speed
70mm Rear Drum Brake Hub



RS-RB3
3 Speed
Band Brake Hub



RS-RR3
3 Speed
Roller Brake Hub



series
S



HSL802
3899.0000.163

HSL872
3899.0000.204



Sprocket Circlip
HSL721
3809.0705.005
3809.0707.002[Xylan]



Fulcrum Lever Set
HSJ932
3899.0000.190



Tool
HTR137
3810.0590.001



17T
HSL827[CP]
3802.0215.023
HSL828[Black]
3802.0210.021
HSL826[Xylan]
3802.0220.002



Lock washer
3/8" *4mm*9.5mm
HMW521
3809.0405.043



HMN406
3809.0205.045
3809.0212.005[Xylan]



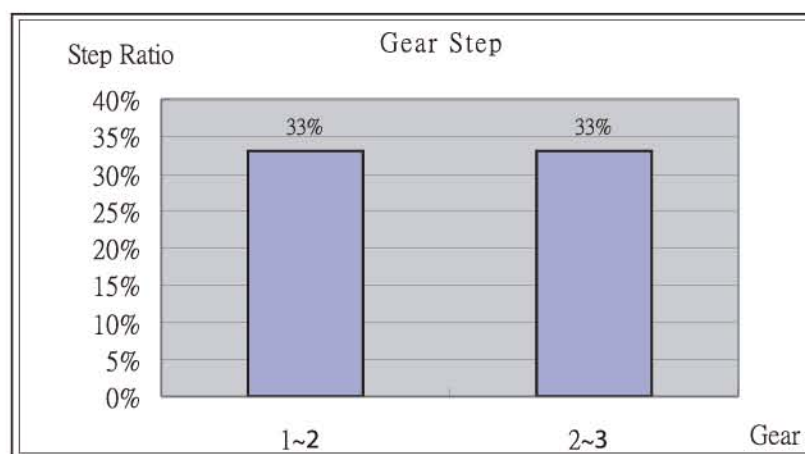
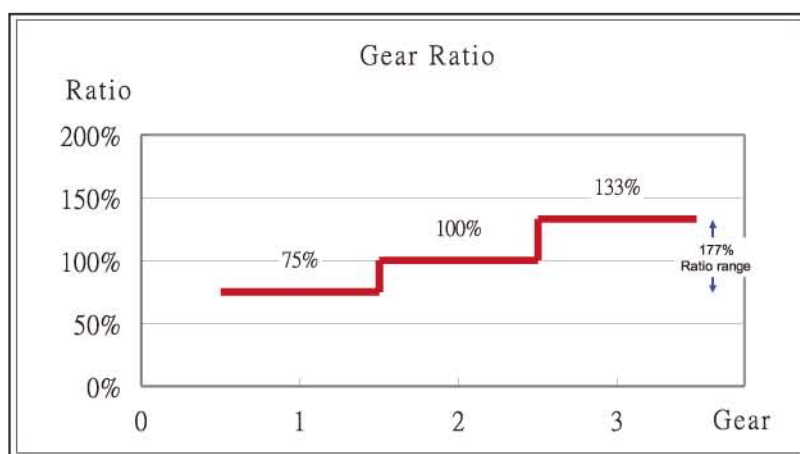
HMN408
3809.0205.054

Fitting Sets

HFIC3SSSS0	 HSJ932	 HMN406	 HSL721	 HMW521 X 2	 HMN387 (x 2)	
HFIC3SSBS0	 HSJ932	 HMN406	 HSL721	 HMW521 X 2	 HMN408	 HMN387 (x 2)

Features of S30/S35

- New trigger shifter.
- New stick shifter.
- New special application hub family SX-TS-QS.
- Classic 3 speed internal gear hubs.
- Gear ratio of 177%.
- Available with drum brake, coaster brake and for band & roller brake.
- Wide selection of gear controls.





DLS30
HSJ943



TSS33
HSJ939



TSS31
HSJ927



X-RD3
3 Speed
70mm Rear Drum Brake Hub



S-RK3
3 Speed Hub
Disk Brake Hub



OSS30
HSJ865
Orion 3 Shifter



S-RC3
3 Speed
Coaster Brake Hub



S-RB3
3 Speed
Band Brake Hub



S-RF3
3 Speed Hub

3 Speed Steel

S Sunney Archer
35



SLS3C
HSJ762
Classic Trigger



SLS3N
HSJ823
Nimbus Thumbshifter



SAB3
3 Speed
70mm Rear Drum Brake Hub



AB3
3 Speed
90mm Rear Drum Brake Hub



AWC
3 Speed
Coaster Brake Hub



AWB
3 Speed
Band Brake Hub



AW
3 Speed Hub

series
S

SX/ TS/ QS

S

series



SX-RK
3 Speed
Disk Brake Hub



SX-RB3
3 Speed
Band Brake Hub



TS-RF3
3 Speed Hub



TS-RB3
3 Speed
Band Brake Hub



TS-RC3
3 Speed
Coaster Brake Hub



QS-RC3



CLS31
HSJ944



CLS30
HSJ945



CLS3S
HSJ946



CLS3M
HSJ947



3 Speed Parts



Sprocket options see page 23



S30 & S35 SX/ TS/ QS

Fitting Sets

HFIS32SSS0								
HFIS33SSS0								
HFIS33SBS0							 	
HFIS34SSS0								
HFIS35SSS0								
HFIS35SBS0							 	

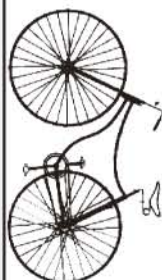
series



Drum Brake Hubs

S

series



X-FD
70mm Front
Drum Brake Hub



SBF
70mm Front
Drum Brake Hub



X-FD(H)
THHA1RBASAA0
LH 70mm Wheelchair
Drum Brake Hub
(Solid Axle)



X-FD(H)
THHA1LBASAA0
RH 70mm Wheelchair
Drum Brake Hub
(Solid Axle)



X-RD
70mm Rear
Drum Brake for Freewheel



X-RDC
70mm Rear
Drum Brake for Cassettes



BF
90mm Front
Drum Brake Hub



X-FD(H)
THHA1RBQSAA0
LH 70mm Wheelchair
Drum Brake Hub
(QR)



X-FD(H)
THHA1LBQSAA0
RH 70mm Wheelchair
Drum Brake Hub
(QR)

Cranksets



FCS80 30T
FCS81 33T



FCS50 33T
FCS51 36T
FCS52 38T



FCS30 33T
FCS31 36T
FCS32 38T



FCS70 42T S/S/S
FCS71 42T S/A/S
FCS72 44T S/S/S
FCS73 44T S/A/S
FCS74 44T A/A/S



FCS7S 42T S/S

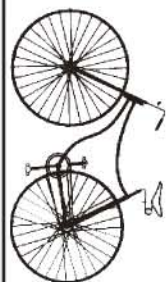


FCSS1 54T
FCSS2 56T



Parts

S series



p. 25



p. 26



p. 24



p. 20



900mm
BSD060900BA0
HSK730
[SBE, X-FD, X-FDD]
1600mm
BSD061600BA0
HSK736
[SAB3 AB3 AB5 X-RD
X-RD3 X-RD5 X-RD6]

Brake Adjuster Assembly
3899.0000.154
HSB422
[SAB3 AB3 AB5 X-RD
X-RD3 X-RD5 X-RD6]



17.5mm
HSL702
3899.0000.106



Rubber Sleeve
HSL770
3810.0505.006



Plastic Sprocket Dustcap
HSL871
3809.0805025



HMN388
3899.0000.095



HMN128
3809.0205.006



HMN385
3809.0205.025

p. 20



p. 24



13/32" x 2.3mm x 9.5mm
HMW494
3809.0405.008

p. 24



13/32" x 1.8mm x 9.5mm
HMW515
3809.0405.002



13/32" x 4mm x 9.5mm
HMW518
3809.0405.041

p. 27



22.2mm
HSJ513
3899.0000.175



25.4mm
HSJ512
3899.0000.100

p. 27



15.9mm
HSJ562
3899.0000.102



17.9mm
HSJ548
3899.0000.101



19.1mm
HSJ753
3899.0000.103



15.9mm
HSJ775
3899.0000.108



HMN386
3899.0000.096



HMN409
3809.0205.098



Washer 1/16"
HMW146
3809.0405.012



HMN387
3899.0000.097



HMN401
3809.0205.044



HMN118
3899.0205.018



Washer 1/8"
HMW129
3809.0405.016



Nuts & Washers

Front Hub



M9 X-FD X-FDD	 HMN386 3899.0000.096	 HMN409 3809.0205.098	 HMW528 3809.0405.078	
3/8" R5-RF3 SBF R5-RR3 BF R5-RB3 RX-RD3	 HMN387 3899.0000.097	 HMN401 3809.0205.044	 HMN118 3899.0205.018	 Washer 1/16" HMW146 3809.0405.012
13/32" All Rear Hubs Excluding Rotary Series	 HMN388 3899.0000.095	 HMN385 3809.0205.025	 HMN128 3809.0205.006	 Washer 1/8" HMW129 3809.0405.016

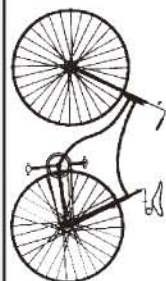
Rear Hub



5/35speed Parts

S

series



Indicators

35speed



Mark I
HSA125
3810.0605.003



Mark II
HSA126
3810.0605.004



Mark III
HSA315
3810.0605.002



Mark IV
HSA316
3810.0605.005



Mark V
HSA420
3810.0605.006



Mark VI
HSA615
3810.0605.001

55speed



Mark Blue
HSA317
3810.0605.008



Mark Yellow
HSA585
3810.0605.009



Mark Red
HSA490
3810.0605.007

Cable Anchorage



HSL790
Z.616420091



HSL759
3899.0000.092



HSJ926 3899.0000.152 (Slotted)
HSJ925 3899.0000.166

Shifter Cable/Casing Set



Twist Shifter
HSJ887 (1420mm)



Nimbus Shifter
HSJ802 (1400mm)



Orion Shifter
HSJ887 (1420mm)



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



5/35 Speed Parts



Indicator Guard
HSL711
3810.0505.002



Guide Nut-Standard
HMN129
3809.0205.005



Guide Nut-Short
HMN402
3809.0205.036



Gear Selector Guide Full Cover
HSA620
3810.0505.019



Fulcrum Lever
HSJ842
3810.0105.012



Gear Selector Guide Cover
HSA507
3810.0505.007



Gear Selector Guide
HSA646
3899.0000.297



Fulcrum Lever with Locating Washer
HSJ905
3810.0105.011



Nut
HMN128
3909.0205.006



Locating Washer
HSA480
3909.0405.021



Locating Washer
HSJ929
3810.0105.008



Series

5/35speed Parts

Sprocket Fittings



Sprocket Circlip
HSL721
3809.0705.005



Sprocket Spacer
HMW127
3809.0405.014



Sprocket Dust Cap
HSL701
3809.0810.001



Plastic Sprocket Dustcap
HSL871
3809.0805.025

Lockwasher For Chain Adjuster



13/32" * 4mm * 9.5mm
HMW518
3809.0405.041



13/32" * 1.8mm * 9.5mm
HMW515
3809.0405.002



13/32" * 2mm * 9.5mm
HMW526
3809.0405.058



3/8" * 4mm * 9.5mm
HMW521
3809.0405.043



Lockwasher Serrated Type



13/32" * 2.3mm * 9.5mm
HMW494
3809.0405.008

Brake Cable Assembly



900mm
HSK730
BSD050900BA0
[SBF, X-FD, X-FDD]



900mm
HSK740
BSD010900BA0
[BF]



1600mm
HSK736
BSD051600BA0
[SAB3, AB3, AB5, X-RD, X-RD3, X-RD5, X-RD8]



Brake Adjuster Assembly
HSB422
3899.0000.154
[SBF, SAB3, AB3, AB5, X-FD, X-RD3, X-RD5, X-RD8]



Brake Adjuster Assembly
HSB307
3899.0000.172
[BF]



Pinch Bolt
HSK715
3899.0000.124



S

series

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



15.9mm(5/8")
HCB101
3899.0000.153



15.5mm
HSL767
3899.0000.115



15.9mm(5/8")
HSL768
3899.0000.112



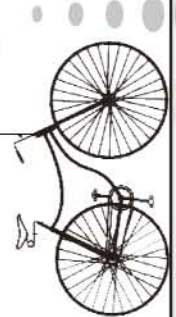
22.2mm(7/8")
HSL769
3899.0000.116



17.0mm
HSL791
3899.0000.150



19.1mm(3/4")
HSL761
3899.0000.174



Fulcrum Clips & Pulleys

Fulcrum Clips



Top tube and Down tube



22.2mm (7/8")
HSJ513
3899.0000.175
include HSJ515



25.4mm (1")
HSJ512
3899.0000.100
include HSJ515



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

Chainstay and Backstay



15.9mm (5/8")
HSJ553
3899.0000.102



17.5mm (11/16")
HSJ548
3899.0000.101



19.1mm (3/4")
HSJ753
3899.0000.103



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



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

S

series

Specifications



Dynahub Drum Brake

Group	Front Dynamo Drum	
Model Name	X-FDD 2.4	X-FDD 3.0
Model No.	HDS21TBSSAA1	HDS31TBSSAA1
Type	70mm Drum Brake	70mm Drum Brake
Voltage	6V	6V
Output	2.4W	3.0W
Hub Shell Material	A356 Aluminum	A356 Aluminum
Finish	Natural Alloy	Natural Alloy
Bearing Type	Sealed Cartridge	Sealed Cartridge
Hub Axle Diameter	9mm	9mm
Hub Axle Length	140mm	140mm
Over Locknut Dimension	100mm	100mm
Spoke Holes	36H	36H
Pitch Circle Diameter	89.8mm	89.8mm
Flange Width	56.5mm	56.5mm
Offset	0mm	0mm
Spoke Compatibility	13G, 14G	13G, 14G

Shifters

Group	S80	
Model No.	TSS80 R8 (S)	TSS80 R8 (A~U)
Sales No.	HSJ 911	n/a
Type	Twist	
Speeds	8-Speed	
Built in Cable Adjuster	○	
Cyclop Display	○	
C-Clamp Material	A6061 Aluminum	
C-Clamp Fastening Nut	SUS302 Stainless Steel	
Cable Type	Slick-Stainless	
Cable Length	2000mm	×
OEM Pre-Assembled	×	○
Pre-Assembled Cable Adjuster	×	○
Pre-Assembled Indicator Connector	×	○
Pre-Assembled Casing Length	×	1200~2000mm
Pre-Assembly Casing Type	×	SP
Weight	80.5g	n/a

Specifications

Shifters



Group	S50		S50	
Model No.	DLS50 R5 (S)	DLS50 R5 (A~U)	TSS54 R5 (S)	TSS54 R5 (A~U)
Sales No.	HSJ 942	n/a	HSJ930	n/a
Type	Dual Lever Trigger		Twist	
Speeds	5-Speed		5-Speed	
Cable Adjuster	○		○	
Large Lever	Aluminum		×	
Small Lever	Engineering Polymers		×	
Clamp Material	Aluminum		A6061 Aluminum	
Clamp Fastening Screw	SCM435 Chromoly		SUS302 Stainless Steel	
Cable Type	Slick-Galvanized		Slick-Stainless	
Cable Length	2000mm	×	2000mm	×
OEM Pre-Assembled	×	○	×	○
Pre-Assembled Cable Adjuster	×	○	×	○
Pre-Assembled Indicator Connector	×	○	×	○
Pre-Assembled Casing Length	×	1200~2000mm	×	1200~2000mm
Pre-Assembly Casing Type	×	SP	×	SP
Weight	155.5g	n/a	80.5g	n/a

Group	S50	S5S
Model No.	OSS50 R5	SLS5N R5
Sales No.	HSJ866	HSJ839
Type	Orion	Thumb
Speeds	5-Speed	5-Speed
Cable Type	Separate	Separate
OEM Pre-Assembled	×	×

Specifications

Shifters



Group	C30		C30	
Model No.	DLC34 R3 (S)	DLC34 R3 (A~U)	TSS34 R3 S	TSS34 R3 A~U
Sales No.	HSJ 940	n/a	HSJ931	n/a
Type	Dual Lever Trigger		Twist	
Speeds	3-Speed (For C30 Series Only)		3-Speed (For C30 Series Only)	
Cable Adjuster	○		○	
Large Lever	Aluminum		×	
Small Lever	Engineering Polymers		×	
Clamp Material	Aluminum		A6061 Aluminum	
Clamp Fastening Screw	SCM435 Chromoly		SUS302 Stainless Steel	
Cable Type	Slick-Galvanized		Slick-Stainless	
Cable Length	2000mm	×	2000mm	×
OEM Pre-Assembled	×	○	×	○
Pre-Assembled Cable Adjuster	×	○	×	○
Pre-Assembled Indicator Connector	×	○	×	○
Pre-Assembled Casing Length	×	1200~2000mm	×	1200~2000mm
Pre-Assembly Casing Type	×	2SP	×	2SP
Weight	155.5g	n/a	80.5g	n/a

Specifications



Shifters

Group	S30		S30			
Model No.	DLS30 R3 (S)	DLS30 R3 (A~U)	TSS33 R3 (S)	TSS33 R3 (A~U)	TSS31 R3 (S)	TSS31 R3 (A~U)
Sales No.	HSJ 943	n/a	HSJ939	n/a	HSJ927	n/a
Type	Dual Lever Trigger		Twist		Twist	
Speeds	3-Speed		3-Speed		3-Speed	
Cable Adjuster	○		×		○	
Large Lever	Aluminum		×		×	
Small Lever	Engineering Polymers		×		×	
Clamp Material	Aluminum		A6061 Aluminum		A6061 Aluminum	
Clamp Fastening Nut	SCM435 Chromoly		SUS302 Stainless Steel		SCM435 Chromoly	
Triangular Cover Screw	×		SUS302 Stainless Steel		×	
Cable Type	Slick-Galvanized		Slick-Stainless		Slick-Galvanized	
Cable Length	2000mm	×	2000mm	×	2000mm	×
OEM Pre-Assembled	×	○	×	○	×	○
Pre-Assembled Cable Adjuster	×	○	×	○	×	○
Pre-Assembled Indicator Connector	×	○	×	○	×	○
Pre-Assembled Casing Length	×	1200~2000mm	×	1200~2000mm	×	1200~2000mm
Pre-Assembly Casing Type	×	2SP	×	2SP	×	2SP
Weight	155.5g	n/a	61.5g	n/a	63.5g	n/a

Group	S30	S3S	S3S
Model No.	OSS30 R3	SLS3C R3	SLS3N R3
Sales No.	HSJ865	HSJ762	HSJ823
Type	Orion	Thumb	Thumb
Speeds	3-Speed	3-Speed	3-Speed
Cable Type	Separate	Separate	Separate
OEM Pre-Assembled	×	×	×

Specifications

Shifters



Group	CLS			
Model No.	CLS31 R3	CLS30 R3	CLS3S R3	CLS3M R3
Type	Stick Arm Lever		Stick Arm Lever	
Speeds	3-Speed		3-Speed	
Stick Arm Material	Aluminum		Steel	
Stick Arm Thickness	6mm		6mm	4mm
Stick Arm Shape	Curved		Curved	Straight
Lightening Holes	○	×	×	○
Arm Finish	Anodized		Satin	Chrome
Cable Type	Separate		Separate	
Weight	377g	397.5g	658g	469g



STURGEON ARCHER

Specifications



Internal Gear Hubs

Group		S80					
Model Name		X-RD8	X-RK8	X-RR8	X-RF8		
Model No.		IHS8TXBSSAA1	IHS8DXBSSAA1	IHS8RXBSSAA1	IHS8FXBLSAA1	IHS8FXBSSAA1	IHS8FXDCSAA1
Speed		8-Speed	8-Speed	8-Speed	8-Speed	8-Speed	8-Speed
Type		70mm Drum Brake	Disk Brake Type	Roller Brake Type	Freewheel		
Hub Shell Material		A356 Aluminum	6061 Aluminum	6061 Aluminum	6061 Aluminum		
	Overall Range	305%	305%	305%	305%		
	1	Direct Drive	Direct Drive	Direct Drive	Direct Drive		
	2	(+) 28%	(+) 28%	(+) 28%	(+) 28%		
	3	(+) 13%	(+) 13%	(+) 13%	(+) 13%		
Gear Ratio	4	(+) 13%	(+) 13%	(+) 13%	(+) 13%		
	5	(+) 13%	(+) 13%	(+) 13%	(+) 13%		
	6	(+) 13%	(+) 13%	(+) 13%	(+) 13%		
	7	(+) 13%	(+) 13%	(+) 13%	(+) 13%		
	8	(+) 28%	(+) 28%	(+) 28%	(+) 28%		
Axle Diameter		13/32" Slotted	13/32" Slotted	13/32" Slotted	13/32" Slotted		
Axle Length		185.0mm	185.0mm	185.0mm	185.0mm	170.0mm	155.0mm
Over Locknut Dimension		132.0mm	128.0mm	131.0mm	130.0mm	124.0mm	116.0mm
R: Axle Protrusion Length		27.0mm	27.0mm	27.0mm	27.0mm	23.0mm	19.5mm
L: Axle Protrusion Length		27.0mm	30.0mm	27.0mm	28.0mm	23.0mm	19.5mm
Spoke Holes		36H	36H	36H	36H	36H	28H
Pitch Circle Diameter		89.8mm	89.8mm	89.8mm	89.8mm	89.8mm	89.8mm
Flange Width		66.0mm	50.5mm	50.5mm	50.5mm	50.5mm	50.5mm
Spoke Compatibility		13G, 14G	13G, 14G	13G, 14G	13G, 14G	13G, 14G	13G, 14G
Sprocket Teeth		19, 23, 25T	19, 23, 25T	19, 23, 25T	19, 23, 25T	19, 23, 25T	19, 23, 25T
Change Line		45.0mm	45.0mm	45.0mm	45.0mm	41.5mm	37.5mm
Weight		1.80kg	1.52kg	1.50kg	1.54kg	1.52kg	1.50kg

Specifications

Internal Gear Hubs



Group		S50				S5S	
Model Name		X-RD5	X-RK5	X-RF5		AB5	S5
Model No.		IHS5TXBSSAA1	IHS5KXBSSAA1	IHS5FXBXSA1	IHS5FXBSSAA2	IHS5TLBSSAA1	IHS5FWBXSSA1
Speed		5-Speed	5-Speed	5-Speed	5-Speed	5-Speed	5-Speed
Type		70mm Drum Brake	Disk Brake Type	Freewheel		90mm Drum Brake	Freewheel
Hub Shell Material		A356 Aluminum	6061 Aluminum	6061 Aluminum		SPCC Steel	SPCC Steel
Gear Ratio	Overall Range	225%	225%	225%		225%	225%
	1	(-) 33.3%	(-) 33.3%	(-) 33.3%		(-) 33.3%	(-) 33.3%
	2	(-) 21.1%	(-) 21.1%	(-) 21.1%		(-) 21.1%	(-) 21.1%
	3	Direct Drive	Direct Drive	Direct Drive		Direct Drive	Direct Drive
	4	(+) 26.6%	(+) 26.6%	(+) 26.6%		(+) 26.6%	(+) 26.6%
	5	(+) 50.0%	(+) 50.0%	(+) 50.0%		(+) 50.0%	(+) 50.0%
Axle Diameter		13/32" Slotted	13/32" Slotted	13/32" Slotted		13/32" Slotted	13/32" Slotted
Axle Length		171.2mm	171.2mm	180.0mm	171.2mm	171.2mm	171.2mm
Over Locknut Dimension		119.7mm	125.2mm	130.5mm	113.7mm	121.7mm	113.7mm
R: Axle Protrusion Length		24mm	24.0mm	24.0mm	24.0mm	24.0mm	24mm
L: Axle Protrusion Length		27.5mm	22.0mm	25.5mm	33.5mm	25.5mm	33.5mm
Spoke Holes		36H	36H	36H	36H	36H	36H
Pitch Circle Diameter		89.8mm	89.4mm	89.4mm	89.4mm	65.5mm , 102.8mm	65mm
Flange Width		62.4mm	56.8mm	56.8mm	56.8mm	65.7mm	54.9mm
Spoke Compatibility		13G	13G,14G	13G,14G	13G,14G	13G,14G	13G,14G
Sprocket Teeth		13~22T	13~22T	13~22T	13~22T	13~22T	13~22T
Chain Line: 1/8" Flat 15~17T		45.9	48.7	42.6	42.9	46.9	42.6
Chain Line: 1/8" Dished 17~22T		44.3 , 47.7	47.1 , 50.5	41.0 , 44.4	41.3 , 44.7	45.3 , 48.7	41.0 , 44.4
Chain Line: 3/32" Flat 16T		45.5 , 46.3	48.3 , 49.1	42.2 , 43.0	42.5 , 43.3	46.5 , 47.3	42.2 , 43.0
Chain Line: 3/32" Dished 17~22T		43.8 , 47.8	46.6 , 50.6	40.5 , 44.5	40.8 , 44.8	44.8 , 48.8	40.5 , 44.5
Indicators		Blue	Blue	Yellow	Blue	Blue	Yellow
Weight		1.46kg	1.23kg	1.25kg	1.25kg	1.61kg	1.20kg

Specifications

Internal Gear Hubs



Group		C30 Rotary Type				
Model Name		RX-RD3	RS-RC3	RS-RR3	RS-RB3	RS-RF3
Model No		IHC3TXBSSAA0	IHC3CQBSSAA0	IHC3RQBSSAA0	IHC3BQBSSAA0	IHC3FQBSSAA0
Speed		3-Speed	3-Speed	3-Speed	3-Speed	3-Speed
Type		70mm Drum Brake	Coaster Brake	Roller Brake	Band Brake	Freewheel
Hub Shell Material		A356 Aluminum	A6061 Aluminum	A6061 Aluminum	A6061 Aluminum	A6061 Aluminum
Finish		Natural Alloy				
Gear Ratio	Overall Range	177%				
	1	(-) 25%				
	2	Direct Drive				
	3	(+) 33.3%				
Axle Diameter		3/8" Slotted				
Axle Length		185mm	190mm	185mm	190mm	185mm
Over Locknut Dimension		132.4mm	139.7mm	134.5mm	133.7mm	128.5mm
R:Axle Protusion Length		27.3mm	27.7mm	27.3mm	27.3mm	27.3mm
L:Axle Protusion Length		25.3mm	22.6mm	23.2mm	29mm	29.2mm
Spocke Holes		36H	36H	36H	36H	36H
Pitch Circle Diameter		89.8mm	67mm	67mm	67mm	67mm
Flange Width		62.4mm	53.4mm	53.4mm	53.4mm	53.4mm
Spocke Compatibility		13G	13G,14G	13G,14G	13G,14G	13G,14G
Sprocket Teeth		17T	17T	17T	17T	17T
Chain Line:3mm 17T Dished		43.6mm	44.7mm	44.7mm	44.3mm	41.7mm
Weight		1.4kg	1.5kg	1.3kg	1.3kg	1.3kg

Specifications

Internal Gear Hubs



Group		S30				
Model Name		X-RD3	S-RK3	S-RC3		S-RB3
Model No.		IHS3TXBSSAA1	IHS3KQBLAAA1	IHS3CQBLSAA2	IHS3CQBSSAA2	IHS3BQBMBA1
Speed		3-Speed	3-Speed	3-Speed		3-Speed
Type		70mm Drum Brake	Disk Brake Type	Coaster Brake		Band / Servo Brake
Hub Shell Material		A356 Aluminum	6061 Aluminum	6061 Aluminum		6061 Aluminum
Gear Ratio	Overall Range	177%	177%	177%		177%
	1	(-) 25.0%	(-) 25.0%	(-) 25.0%		(-) 25.0%
	2	Direct Drive	Direct Drive	Direct Drive		Direct Drive
	3	(+) 33.3%	(+) 33.3%	(+) 33.3%		(+) 33.3%
Axle Diameter		13/32" Flatted	13/32" Flatted	13/32" Flatted		13/32" Flatted
Axle Length		162.7mm	175.0mm	175.0mm	163.2mm	175mm
Over Locknut Dimension		117.3mm	119.9mm	116.3mm	116.3mm	113.2mm
R: Axle Protrusion Length		23.1mm	30.2mm	29.5mm	25.9mm	30.2mm
L: Axle Protrusion Length		22.3mm	24.9mm	29.2mm	21mm	31.6mm
Spoke Holes		36H	36H	36H	36H	36H
Pitch Circle Diameter		89.8mm	67mm	67mm		67mm
Flange Width		62.8mm	53.4mm	53.4mm		53.4mm
Spoke Compatibility		13G	13G, 14G	13G, 14G		13G, 14G
Sprocket Teeth		13 ~ 22T	13~22T	13 ~ 22T		13~22T
Chain Line: 1/8" Flat 13~19T		44.7	46.0	43.9	43.9	42.7
Chain Line: 1/8" Dished 17~22T		43.1 , 46.5	44.4 , 47.8	42.3 , 45.7	42.3 , 45.7	41.0 , 44.4
Chain Line: 3/32" Flat 16T		44.3 , 45.1	45.6 , 46.4	43.5 , 44.3	43.5 , 44.3	42.4 , 43.0
Chain Line: 3/32" Dished 17~22T		42.6 , 46.6	43.9 , 47.9	41.8 , 45.8	41.8 , 45.8	40.6 , 44.8
Indicators		MK3	MK5	MK5	MK4	MK5
Weight		1.40 kg	1.03kg	1.30kg	1.29kg	1.01kg

Specifications



Internal Gear Hubs

Group		S30			
Model Name		S-RF3			
Model No.		IHS3FQBLSAA1	IHS3FQBLAAA1	IHS3FQBSSAA1	IHS3FQDCSAA1
Speed		3-Speed			
Type		Freewheel			
Hub Shell Material		6061 Aluminum			
Gear Ratio	Overall Range	177%			
	1	(-) 25.0%			
	2	Direct Drive			
	3	(+) 33.3%			
Axle Diameter		13/32" Flatted			
Axle Length		175.0mm	175.0mm	162.7mm	148.0mm
Over Locknut Dimension		126.8mm	118.8mm	117.2mm	107.6mm
R: Axle Protrusion Length		23.8mm	30.2mm	21.5mm	20.0mm
L: Axle Protrusion Length		24.4mm	26mm	24mm	20.4mm
Spoke Holes		36H	36H	36H	28H
Pitch Circle Diameter		67mm			
Flange Width		53.4mm			
Spoke Compatibility		13G, 14G			
Sprocket Teeth		13~22T			
Chain Line: 1/8" Flat 13~19T		43.1	45.5	43.1	40
Chain Line: 1/8" Dished 17~22T		41.5 , 44.9	43.9 , 47.3	41.5 , 44.9	38.4 , 41.8
Chain Line: 3/32" Flat 16T		42.7 , 43.5	45.1 , 45.9	42.7 , 43.5	39.6 , 40.4
Chain Line: 3/32" Dished 17~22T		41.0 , 45.0	43.4 , 47.4	41.0 , 45.0	37.9 , 41.9
Indicators		MK5	MK5	MK3	MK2
Weight		1.06kg	1.05kg	1.04kg	1.02kg

Specifications

Internal Gear Hubs



Group		S3S				
Model Name		AB3	SAB3	AWC		AWB
Model No.		IHS3TLBSSAA1	IHS3TSBSSSA1	IHS3CWBLSAA2	IHS3CWBSSSA2	IHS3BWBMSA1
Speed		3-Speed	3-Speed	3-Speed		3-Speed
Type		90mm Drum Brake	70mm Drum Brake	Coaster Brake		Band / Servo Brake
Hub Shell Material		SPCC Steel	SPCC Steel	SPCC Steel		SPCC Steel
Gear Ratio	Overall Range	177%	177%	177%		177%
	1	(-) 25.0%	(-) 25.0%	(-) 25.0%		(-) 25.0%
	2	Direct Drive	Direct Drive	Direct Drive		Direct Drive
	3	(+) 33.3%	(+) 33.3%	(+) 33.3%		(+) 33.3%
Axle Diameter		13/32" Flatted	13/32" Flatted	13/32" Flatted		13/32" Flatted
Axle Length		162.7mm	162.7mm	175.0mm	163.2mm	175.0mm
Over Locknut Dimension		117.1mm	117.9mm	116.3mm	116.3mm	113.2mm
R: Axle Protrusion Length		23.1mm	23.5mm	29.5mm	25.9mm	30.2mm
L: Axle Protrusion Length		22.5mm	21.3mm	29.2mm	21mm	31.6mm
Spoke Holes		36H	36H	36H	36H	36H
Pitch Circle Diameter		65.5mm , 102.8mm	65mm,82.7mm	65mm		65mm
Flange Width		65.7mm	61.5mm	54.9mm		54.9mm
Spoke Compatibility		13G, 14G	13G, 14G	13G, 14G		13G, 14G
Sprocket Teeth		13 ~ 22T	13 ~ 22T	13 ~ 22T		13~22T
Chain Line: 1/8" Flat 13~19T		44.6	45.4	43.9	43.9	42.7
Chain Line: 1/8" Dished 17~22T		43.0 , 46.4	43.8 , 47.2	42.3 , 45.7	42.3 , 45.7	41.0 , 44.4
Chain Line: 3/32" Flat 16T		44.2 , 45.0	45.0 , 45.8	43.5 , 44.3	43.5 , 44.3	42.4 , 43.0
Chain Line: 3/32" Dished 17~22T		42.5 , 46.5	43.3 , 47.3	41.8 , 45.8	41.8 , 45.8	40.6 , 44.8
Indicators		MK3	MK3	MK5	MK4	MK5
Weight		1.57 kg	1.41kg	1.36kg	1.35 kg	1.11kg

Specifications

Internal Gear Hubs



Group		S3S			
Model Name		AW3			
Model No.		IHS3FWBLSSA1	IHS3FWBLASA1	IHS3FWBSSSA1	IHS3FWDCSSA1
Speed		3-Speed			
Type		Freewheel			
Hub Shell Material		SPCC Steel			
Gear Ratio	Overall Range	177%			
	1	(-) 25.0%			
	2	Direct Drive			
	3	(+) 33.3%			
Axle Diameter		13/32" Flatted			
Axle Length		175.0mm	175.0mm	162.7mm	148.0mm
Over Locknut Dimension		126.8mm	118.8mm	117.2mm	107.6mm
R: Axle Protrusion Length		23.8mm	30.2mm	21.5mm	20.0mm
L: Axle Protrusion Length		24.4mm	26mm	24mm	20.4mm
Spoke Holes		36H	36H	36H	28H
Pitch Circle Diameter		65mm			
Flange Width		54.9mm			
Spoke Compatibility		13G, 14G			
Sprocket Teeth		13 ~ 22T			
Chain Line: 1/8" Flat 13~19T		43.1	45.5	43.1	40
Chain Line: 1/8" Dished 17~22T		41.5 , 44.9	43.9 , 47.3	41.5 , 44.9	38.4 , 41.8
Chain Line: 3/32" Flat 16T		42.7 , 43.5	45.1 , 45.9	42.7 , 43.5	39.6 , 40.4
Chain Line: 3/32" Dished 17~22T		41.0 , 45.0	43.4 , 47.4	41.0 , 45.0	37.9 , 41.9
Indicators		MK5	MK5	MK3	MK2
Weight		1.16kg	1.15kg	1.14kg	1.12kg

Specifications



Cruiser Hub

Group		SX	
Model Name		SX-RK3	SX-RB3
Model No.		IHS3KPBSSAA1	IHS3BPBSSAAA
Speed		3-Speed	
Type		Disk Brake	Band / Servo Brake
Hub Shell Material		6061 Aluminum	A356 Aluminum
Gear Ratio	Overall Range	177%	
	1	(-) 25.0%	
	2	Direct Drive	
	3	(+) 33.3%	
Axle Diameter		13/32" Flatted	
Axle Length		215.0mm	
Over Locknut Dimension		169.9mm	163.3mm
R: Axle Protrusion Length		23.3mm	23.3mm
L: Axle Protrusion Length		21.8mm	28.4mm
Spoke Holes		36H	
Pitch Circle Diameter		89.8mm	90.0mm
Flange Width		90.9mm	89.0mm
Spoke Compatibility		13G, 14G	
Sprocket Teeth		13~22T	
Chain Line: 1/8" Flat 13~19T		70.9	67.6
Chain Line: 1/8" Dished 17~22T		69.2,72.6	65.9,69.3
Chain Line: 3/32" Flat 16T		70.6,71.2	67.3,67.9
Chain Line: 3/32" Dished 17~22T		68.8,73.0	65.5,69.7
Indicators		MK3	
Weight		1.40kg	1.24kg

Specifications

Tricycle & Quadricycle Internal Gear Hubs



Group		TS			QS
Model Name		TS-RC3	TS-RB3	TS-RF3	QS-RC3
Model No.		IHT3CQBSSAA2	IHT3BQBMBAA1	IHT3FQBSSAA1	IHQ3CQBLSAA2
Speed		3-Speed	3-Speed	3-Speed	3-Speed + Reverse
Type		Coaster Brake	Band / Servo Brake	Freewheel	Coaster Brake
Hub Shell Material		6061 Aluminum	6061 Aluminum	6061 Aluminum	6061 Aluminum
Gear Ratio	Overall Range	177%	177%	177%	177%
	1	(-) 25.0%	(-) 25.0%	(-) 25.0%	(-) 25.0%
	2	Direct Drive	Direct Drive	Direct Drive	Direct Drive
	3	(+) 33.3%	(+) 33.3%	(+) 33.3%	(+) 33.3%
Axle Diameter		13/32" Flatted	13/32" Flatted	13/32" Flatted	13/32" Flatted
Axle Length		163.2mm	175.0mm	162.7mm	175.0mm
Over Locknut Dimension		116.3mm	113.2mm	117.2mm	126.4mm
R: Axle Protrusion Length		25.9mm	30.2mm	21.5mm	30.4mm
L: Axle Protrusion Length		21mm	31.6mm	24mm	18.2mm
Flange Width		53.4mm	53.4mm	53.4mm	53.4mm
Flange Sprocket Teeth		22T	22T	22T	22T
Flange Sprocket C.L.		27.8mm	29.7mm	30.1mm	33.4mm
Sprocket Teeth		21 ~ 22T	21~22T	21~22T	21~22T
Sprocket Chain Line		45.7mm	44.4mm	44.9mm	47.2mm
Indicators		MK4	MK5	MK3	MK5
Weight		1.36kg	1.01kg	1.10kg	1.80kg

Specifications



Drum Brake Hubs

Group	Front Drum Brake Hubs		
Model Name	X-FD	BF	SBF
Model No.	THSXDFBSSAA1	THSLBFBSSAA0	THSSBFBSSAA0
Type	70mm Drum Brake	90mm Drum Brake	70mm Drum Brake
Hub Shell Material	A356 Aluminum	Steel	Steel
Bearing Type	Sealed Cartridge	Loose Ball	Loose Ball
Hub Axle Diameter	9.0mm	3/8" (26TPI)	3/8"(26TPI)
Hub Axle Length	136.0mm	136.0mm	136.0mm
Over Locknut Dimension	100.0mm	100.0mm	100.0mm
Spoke Holes	36H	36H	36H
Pitch Circle Diameter	89.8mm	102.5mm	83.0mm
Flange Width	54.3mm	57.4mm	53.2mm
Spoke Compatibility	13G, 14G	13G, 14G	13G,14G
Finish	Natural Alloy	EDSN	Painted Silver
Weight	0.77kg	1.02kg	0.88kg

Specifications

Drum Brake Hubs



Group	Rear Drum Brake Hubs			
Model Name	X-RD		X-RDC	
Model No.	THSXDRBSSAA0	THSXD7BSSAA0	THSXDCBQSAA0	THSXDCBSSAA0
Drum Brake	70mm	70mm	70 mm	70mm
Type	1-Speed Freewheel	7-Speed Freewheel	9/8-Speed Cassette	
Hub Shell Material	A356 Aluminum	A356 Aluminum	A356 Aluminum	A356 Aluminum
Bearing Type	Sealed Cartridge	Sealed Cartridge	Sealed Cartridge	Sealed Cartridge
Axle Type	Nutted	Nutted	Quick-Release	Nutted
Axle Diameter	9.0mm	9.0mm	10.0mm	10.0mm
Axle Length	183.0mm	183.0mm	145.0mm	175.0mm
Over Locknut Dimension	135.6mm	135.6mm	135.0mm	135.0mm
R: Axle Protrusion Length	30.6mm	23.7mm	5.0mm	20.0mm
L: Axle Protrusion Length	16.8mm	23.7mm	5.0mm	20.0mm
D-Dimension	30.9mm	38.0mm	41.0mm	41.0mm
Spoke Holes	36H	36H	36H	36H
Pitch Circle Diameter	89.8mm	89.8mm	89.8mm	89.8mm
Flange Width	60.3mm	60.3m	60.3mm	60.3mm
Spoke Compatibility	13G, 14G	13G, 14G	13G, 14G	13G, 14G
Finish	Natural Alloy	Natural Alloy	Natural Alloy	Natural Alloy
Weight	0.80kg	0.80kg	0.95kg	0.95kg

Specifications



Wheelchair Hub

Group	X-FD (H)		X-FD (H)		X-FD (H)	
Model No.	THHA1LB0SAA0	THHA1RB0SAA0	THHA1LBASAA0	THHA1RBASAA0	THHA1LBQSAA0	THHA1RBQSAA0
Type	70mm Drum Brake	70 mm Drum Brake	70mm Drum Brake	70 mm Drum Brake	70mm Drum Brake	70mm Drum Brake
Axle Type	None		12mm Solid Nutted		12mm Quick-Release	
Side	Left	Right	Left	Right	Left	Right
Hub Shell Material	A356 Aluminum		A356 Aluminum		A356 Aluminum	
Bearing Type	Sealed Cartridge		Sealed Cartridge		Sealed Cartridge	
Spoke Holes	36H		36H		36H	
Pitch Circle Diameter	89.8mm		89.8mm		89.8mm	
Flange Width	54.3mm		54.3mm		54.3mm	
Spoke Compatibility	13G, 14G		13G, 14G		13G, 14G	
Finish	Natural Aluminum		Natural Aluminum		Natural Aluminum	
Weight	0.62kg		0.74kg		0.72kg	

Wheelchair Axle

Group	X-FD (H)	
Model No.	HSB507	HSL819
Type	Solid	Quick Release
Axle Diameter	12mm	12mm
Axle Length	135mm	135mm

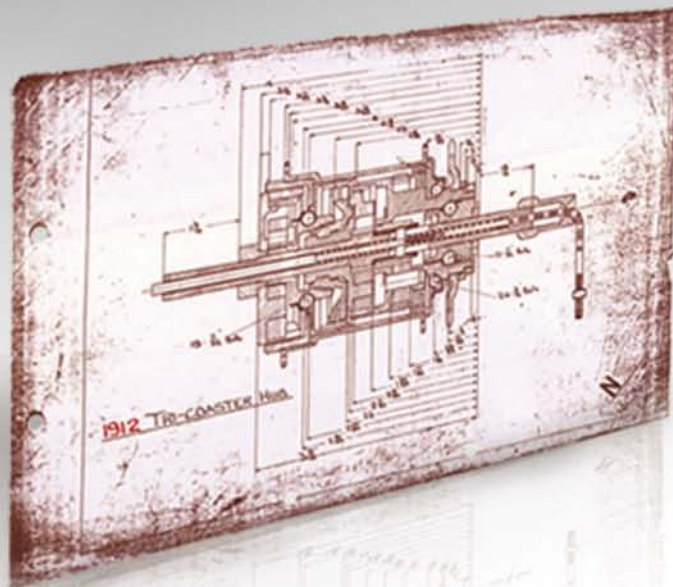
Specifications

Cranksets



Group	SS		S70					S7S
Model No.	FCSS1	FCSS2	FCS74	FCS73	FCS72	FCS71	FCS70	FCS7S
Number of Teeth	54T	56T	44T	44T	44T	42T	42T	42T
Chainring Material	A5 Aluminum		A5 Aluminum	SS400	SS400	SS400	SS400	SS400
Removable Chainrings	○		○	○	○	○	○	×
Crank Style	5-Arm Spider		4-Arm Spider A-Crank					I-Crank
Crank Arms	A6061 Aluminum		A356.2 Aluminum					A356.2 Aluminum
Crank Arm Length	170mm		175mm / 170mm					175mm / 170mm
Chainring Bolts & Nuts	SCM435 Chromoly		Dacromet SCM435 Chromoly					×
Bolt Circle Diameter	130mm		104mm					×
Chainguard Outer	A5 Aluminum		A8 Aluminum	A8 Aluminum	Steel	A8 Aluminum	Steel	Steel
Chainguard Inner	A5 Aluminum		Steel	Steel	Steel	Steel	Steel	×
45mm Chain Line (BB Shell)	108mm		110mm	110mm	110mm	110mm	110mm	113mm
Weight (Right)	425g (175mm)	435g (175mm)	400g (175mm)	510g (175mm)	610g (175mm)	505g (175mm)	595g (175mm)	680g (175mm)
Weight (Left)	205g (175mm)	205g (175mm)	210g (175mm)	210g (175mm)	210g (175mm)	210g (175mm)	210g (175mm)	205g (175mm)
Total Weight	630g (175mm)	640g (175mm)	610g (175mm)	720g (175mm)	820g (175mm)	715g (175mm)	805g (175mm)	885g (175mm)

Group	S80		S50			S30		
Model No.	FCS81	FCS80	FCS52	FCS51	FCS50	FCS32	FCS31	FCS30
Number of Teeth	33T	30T	38T	36T	33T	38T	36T	33T
Chainring Material	SS400	SS400	SS400	SS400	SS400	SS400	SS400	SS400
Crank Style	I-Crank		I-Crank			A-Crank		
Crank Arms	A356.2 Aluminum		A356.2 Aluminum			A356.2 Aluminum		
Crank Arm Length	175mm/ 170mm		175mm / 170mm			175/170/165/160/152mm		
Chain Guard Option	×	×	○	×	×	○	×	×
45mm Chain Line (BB Shell)	122mm		122mm			122mm		
Weight (Right)	451g (175mm)	430g (175mm)	445g (175mm)	431g (175mm)	410g (175mm)	410g (175mm)	396g (175mm)	375g (175mm)
Weight (Left)	240g (175mm)	240g (175mm)	240g (175mm)	240g (175mm)	240g (175mm)	215g (175mm)	215g (175mm)	215g (175mm)
Total Weight	691g (175mm)	670g (175mm)	685g (175mm)	671g (175mm)	650g (175mm)	625g (175mm)	611g (175mm)	590g (175mm)

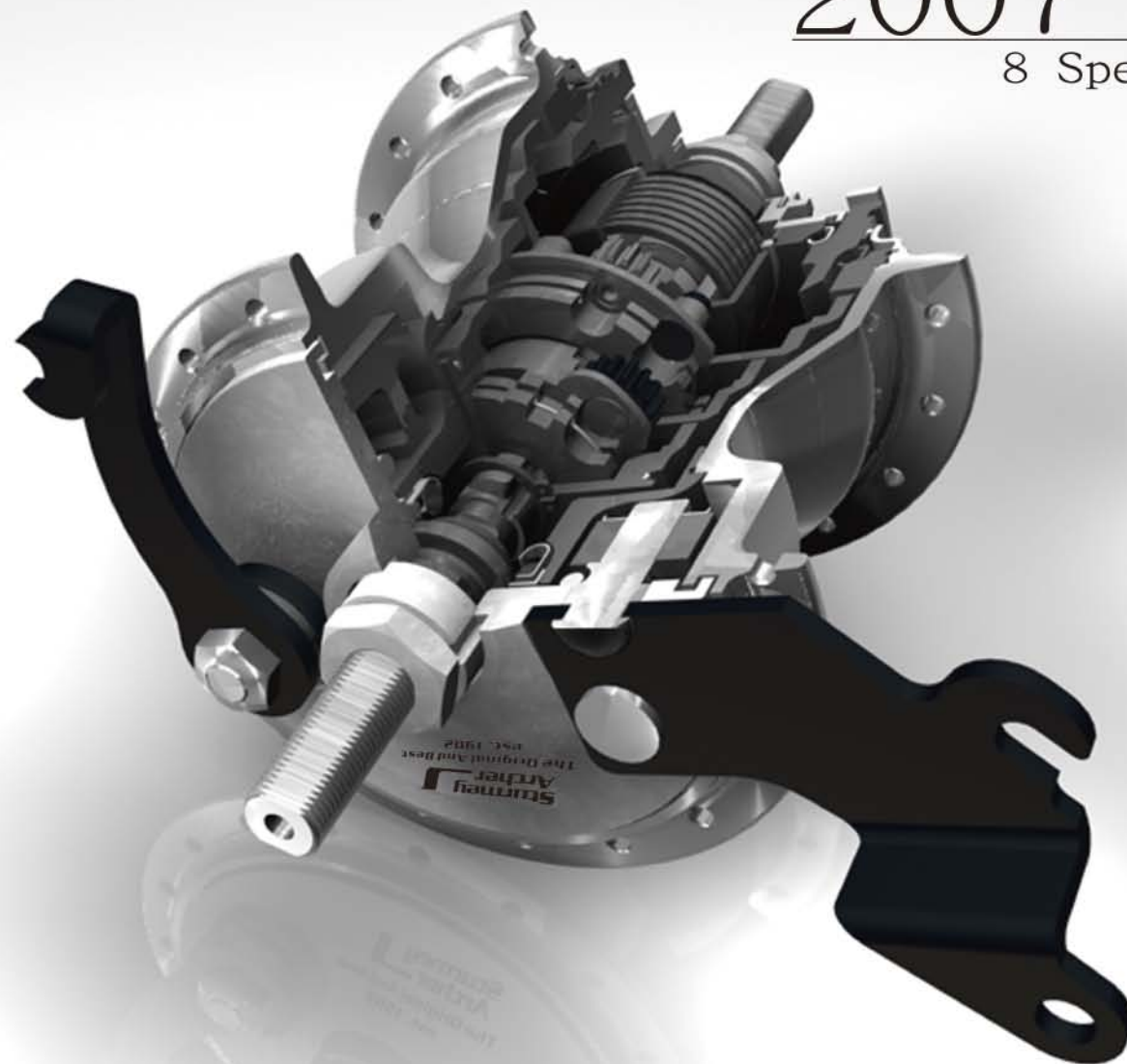


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DYNOHUB: 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000.

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