

hubsmith®



Overview of Hubsmith Hubset



Dedicated to creating exceptional bicycle products.
By adhering to performance standards and meeting
complex manufacturing demands, we produce
outstanding products with superior quality.

MADE IN TAIWAN

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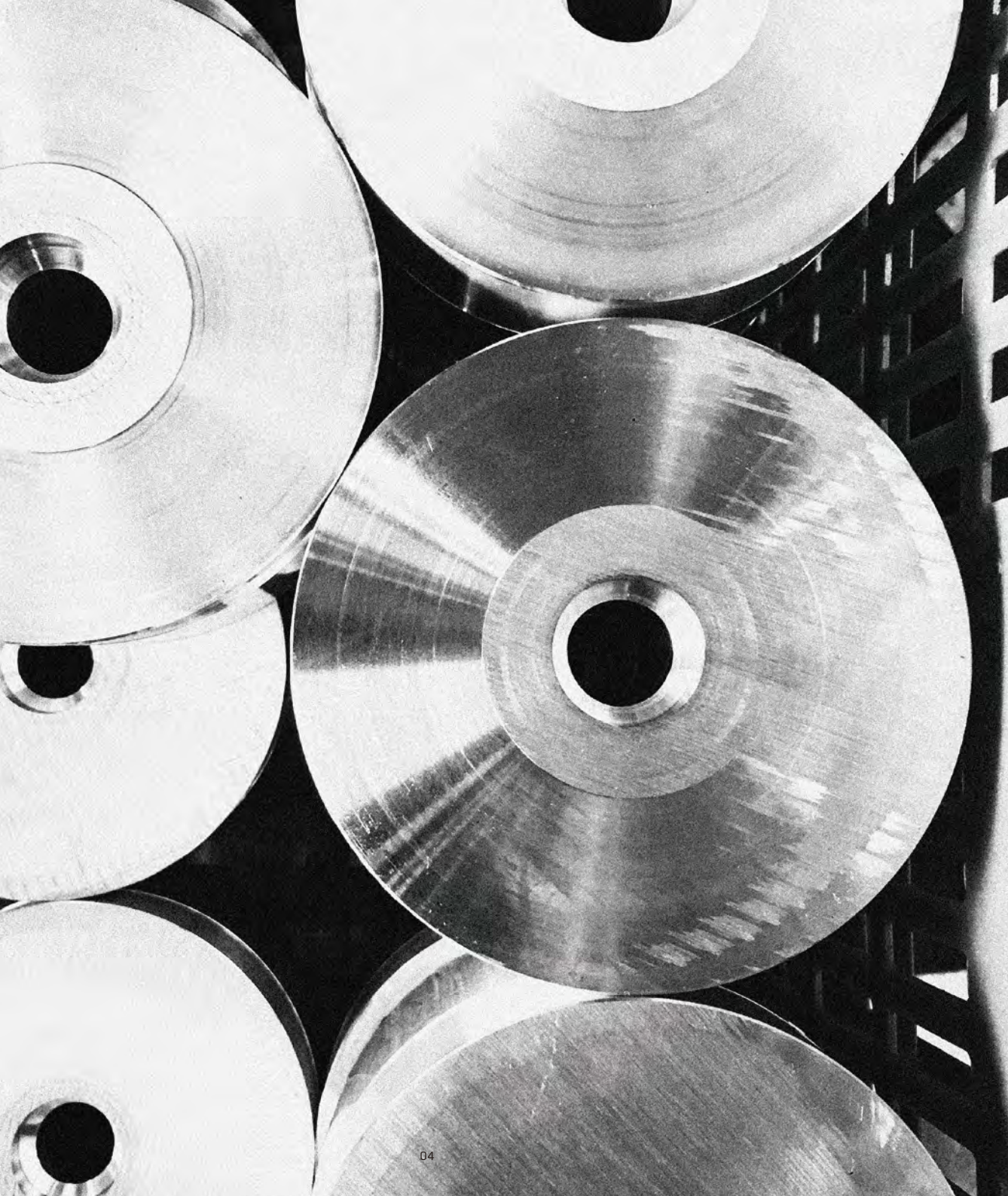
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With 40 years of experience in bicycle hub manufacturing and innovative technology development, Hubsmith excels in precision and craftsmanship.

Every production step for our hubs is meticulous and complex, involving hundreds of precision components and refined processing techniques. This dedication results in exceptional and superior products, proudly crafted in Taiwan.



Exceptional Hub Manufacturing Techniques & Award-Winning Design

From concept to final product, the Hubsmith R&D team upholds the highest manufacturing standards, ensuring meticulous craftsmanship in every component.

We leverage advanced engineering and precision manufacturing to create exceptional products for our customers. At the same time, we continuously innovate and push the boundaries of traditional design, integrating fresh ideas to redefine industry standards.

This dedication has earned us six innovation design awards and brought our high-quality hubs into the hands of cycling enthusiasts worldwide—driving the Hubsmith philosophy of a seamless connection between bicycles and lifestyle.

Comprehensive Testing Equipment & Rigorous Quality Control

Hubsmith employs a series of stringent testing standards to ensure its products exceed industry craftsmanship benchmarks.

Beyond complying with the ISO 9001:2015 quality management system, we implement rigorous testing conditions from R&D and design to mass production.

This meticulous process ensures that our products remain both lightweight and exceptionally durable. To push the boundaries of endurance, we conduct intensified testing, thoroughly assessing and controlling the limits of product performance.

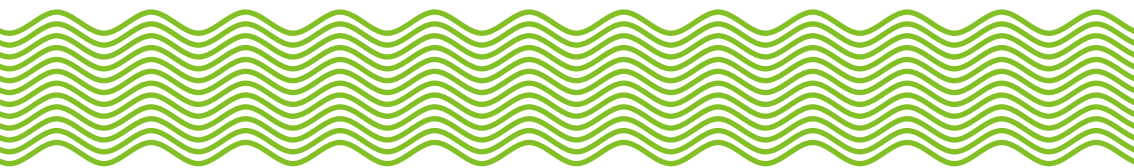


Hubsmith's Green Guide: Turning Over a New Green Leaf

With sustainability at its core, Hubsmith has obtained **ISO14067:2018** and **ISO14064-1:2018** international certifications.

This highlights Hubsmith's dedication to meticulous carbon footprint calculation and controlling greenhouse gas (GHG) emissions across all stages of manufacturing and business operations.

When you use Hubsmith products, you experience exceptional performance and contribute to the Earth's sustainability. Thank you for joining us in shaping a better, more prosperous, and sustainable environment together.

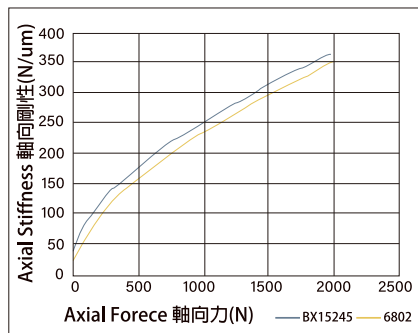
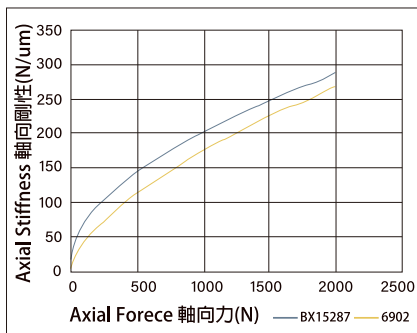




The Road Series hubs are favored by riders for their lightweight durability. With a distinctive design, they excel in both high-speed road racing and hilly terrains, offering effortless performance in any condition.



使用規格 Size	基本動額定負荷 Cr(N)	基本靜額定負荷 Cor(N)
6802	2080	1260
6902	3650	2000



PRESSURE ANGLE BEARING

R080F

Spoke Hole	20, 24H
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	45mm/37mm
Sealed Cartridge Bearings	Pressure angle bearings*2
Weight	121g



R080R

Spoke Hole	24, 28H
O.L.D.	135mm/142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	45mm/50mm
Sealed Cartridge Bearings	Pressure angle bearings*4
Weight	235g



R081F

Spoke Hole	20, 24H
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 7075 T6
Flange P.C.D.	43mm/31mm
Sealed Cartridge Bearings	2pcs
Brake Interface	Center Lock
Weight	101g

R081R

Spoke Hole	24, 28H
O.L.D.	135mm/142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 7075 T6
Flange P.C.D.	43mm/50mm
Sealed Cartridge Bearings	4pcs
Brake Interface	Center Lock
Weight	222g

R082F

Spoke Hole	20, 24H
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 7075 T6
Flange P.C.D.	44mm/36mm
Sealed Cartridge Bearings	2pcs
Weight	99g

R082R

Spoke Hole	24, 28H
O.L.D.	135mm/142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43mm/50mm
Sealed Cartridge Bearings	4pcs
Weight	223g



NEW ZERO-TIME PLANAR TOOTH RATCHET

The Hubsmith R&D team launched a new zero-time planar tooth ratchet for the ratchet body drive structure. During the 360-degree driving process, the zero-time planar tooth ratchet body has two parallel tooth surfaces (48, 80 teeth) to achieve a zero-gap occlusal action at the same time.

The complete occlusal and propulsion allows the driving performance to be more directly output. In addition, the zero-time planar tooth-type occlusal structure is more durable than traditional pawls.

PASS FATIGUE TESTING OVER 300,000 TIMES



- Fatigue tests reaches 100,000 times.
- Deformation and breakage are not allowed.
- Skidding is not allowed.
- Apply a force of 150Nm~170Nm to drive the fatigue test.

**100,000
PASS** ↑



**300,000
PASS** ↑



F014F

Spoke Hole	20H/24H
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43mm/36mm
Sealed Cartridge Bearings	2pcs
Weight	97g

R065F

Spoke Hole	24, 28H
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43mm/36mm
Sealed Cartridge Bearings	2pcs
Weight	125g

Replaceable caps

F014R48T NEW ZERO-TIME
PLANAR TOOTH RATCHET**NEW**

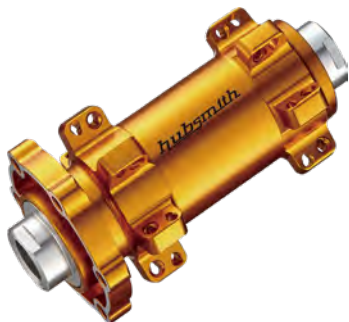
Spoke Hole	24H
O.L.D.	142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43mm/49mm
Freehub Body (Ratchet system)	New Zero-time Planar Tooth Ratchet (48T)
Sealed Cartridge Bearings	4pcs
Weight	218g

R065R

Spoke Hole	24, 28H
O.L.D.	135mm/142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43mm/54mm
Sealed Cartridge Bearings	4pcs
Weight	240g

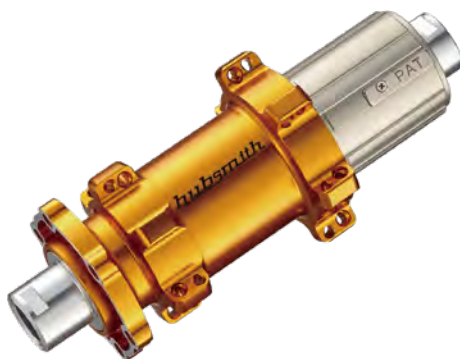
Replaceable cap and axle

The hubset weight does not include replaceable caps and axle. More information on cap and axle specifications can be found on page 27.

R027F

Spoke Hole	20, 24, 28H
O.L.D.	ø5*100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	41mm/39.6mm
Sealed Cartridge Bearings	2pcs
Weight	116g

Replaceable caps

R027R

Spoke Hole	20, 24, 28H
O.L.D.	135mm/ 142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	41mm/49mm
Sealed Cartridge Bearings	4pcs
Weight	214g

Replaceable caps

The hubset weight does not include replaceable caps and axle. More information on cap and axle specifications can be found on page 26.

R041F

Spoke Hole	16, 18, 20, 24, 28, 32H
O.L.D.	ø5*100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	56.5mm/46mm
Sealed Cartridge Bearings	2pcs
Weight	131g

Replaceable caps

R041R

Spoke Hole	8-16, 18, 20, 24, 28, 32H
O.L.D.	135mm/ 142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	56.5mm
Sealed Cartridge Bearings	4pcs
Weight	208g

Replaceable caps

The hubset weight does not include replaceable caps and axle. More information on cap and axle specifications can be found on page 26.

HS-R027

Front Hub		Rear Hub			
2 Caps / Weight		2 Caps / Weight			
5mm	13g	5mm	Shimano	O.L.D. 135	16.8g
10mm	10.6g	10mm	Shimano	O.L.D. 135	14.4g
12mm	9.4g	12mm	Shimano	O.L.D. 135	13.4g
		10mm	Shimano	O.L.D. 142	18.2g
		12mm	Shimano	O.L.D. 142	17.2g

HS-R065

Front Hub		Rear Hub			
2 Caps / Weight		Left Cap+Axle			Weight
5mm	13g	5mm	Shimano	O.L.D. 135	30g (1 set)
9mm	10g	10mm	Shimano	O.L.D. 135	46g (1 set)
10mm	10.6g	12mm	Shimano	O.L.D. 135	33g (1 set)
12mm	9.4g	10mm	Shimano	O.L.D. 142	48g (1 set)
		12mm	Shimano	O.L.D. 142	35g (1 set)

HS-R041

Front Hub		Rear Hub			
2 Caps / Weight		2 Caps / Weight			
5mm	14.8g	5mm	Shimano	O.L.D. 135	16.1g
10mm	10.6g	10mm	Shimano	O.L.D. 135	14.5g
12mm	6.8g	12mm	Shimano	O.L.D. 135	13.7g
		10mm	Shimano	O.L.D. 142	15.5g
		12mm	Shimano	O.L.D. 142	14.7g





R001F

Spoke Hole	16, 18, 20, 24H
O.L.D.	ø5*100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6066 T6
Flange P.C.D.	31mm
Sealed Cartridge Bearings	2pcs
Weight	65g

R001R

Spoke Hole	8-16, 18, 20, 24, 28H
O.L.D.	ø5*130mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6066 T6
Flange P.C.D.	35mm/49mm
Sealed Cartridge Bearings	4pcs
Weight	191g

R006F

Spoke Hole	16, 18, 20, 24H
O.L.D.	ø5*100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	33mm
Sealed Cartridge Bearings	2pcs
Weight	71g

R006R

Spoke Hole	8-16, 18, 20, 24, 28H
O.L.D.	ø5*130mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	38mm/51mm
Sealed Cartridge Bearings	4pcs
Weight	223g

R011F

Spoke Hole	18, 20, 24H
O.L.D.	ø5*100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	29mm
Sealed Cartridge Bearings	2pcs
Weight	107g

R011R

Spoke Hole	20, 24H
O.L.D.	ø5*130mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	33mm/51mm
Sealed Cartridge Bearings	4pcs
Weight	219g

R013R

Spoke Hole	8-16, 18, 20, 24, 28H
O.L.D.	ø5*130mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6066 T6
Flange P.C.D.	39mm/49mm
Sealed Cartridge Bearings	4pcs
Weight	189g

R017F

Spoke Hole	20, 24, 28, 32H
O.L.D.	ø5*100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	61.5mm
Sealed Cartridge Bearings	2pcs
Weight	113g

R017R

Spoke Hole	8-16, 20, 24, 28, 32H
O.L.D.	ø5*130mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	61.5mm
Sealed Cartridge Bearings	4pcs
Weight	225g

R021F

Spoke Hole	20, 24, 28, 32, 36H
O.L.D.	ø5*100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	61.5mm
Sealed Cartridge Bearings	2pcs
Weight	99g

R021R

Spoke Hole	20, 24, 28, 32, 36H
O.L.D.	ø5*130mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	61.5mm
Sealed Cartridge Bearings	4pcs
Weight	221g

R032F**CARBON SPOKE HUB**

Spoke Hole	18, 20, 24H
O.L.D.	ø9(ID5)* 100*110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	29.5mm
Sealed Cartridge Bearings	2pcs
Weight	107g

R032R**CARBON SPOKE HUB**

Spoke Hole	7-14, 8-16, 20, 24, 28H
O.L.D.	ø10(ID5)* 130*140mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	33.4mm/51mm
Sealed Cartridge Bearings	4pcs
Weight	219g

R036F

Spoke Hole	32H
O.L.D.	ø9(ID5)* 100*110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	91mm
Sealed Cartridge Bearings	2pcs
Weight	159g

**R036R**

Spoke Hole	32H
O.L.D.	ø10(ID5)* 130*140mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	91mm
Sealed Cartridge Bearings	4pcs
Weight	263g

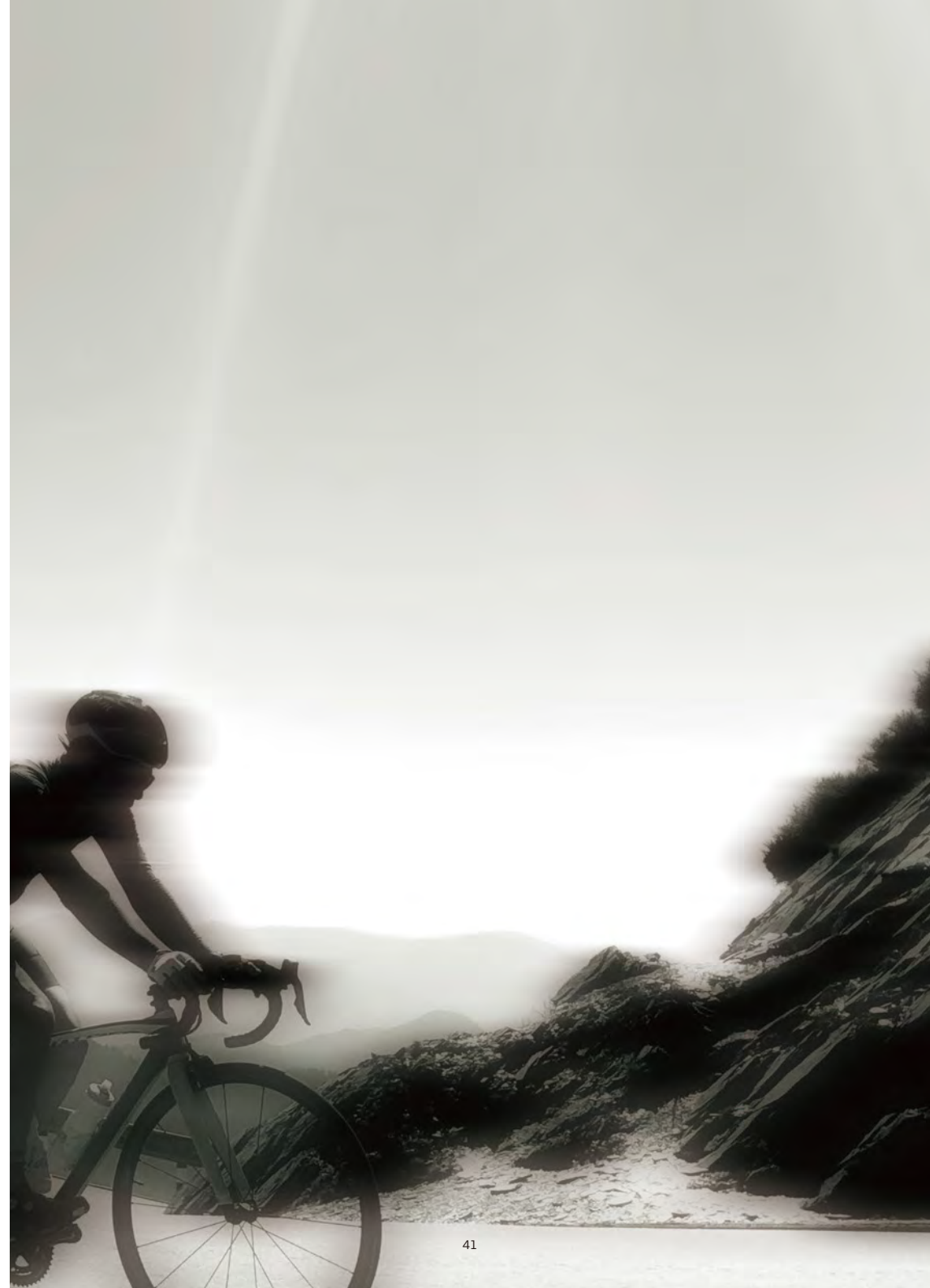


R038F

Spoke Hole	20, 24, 28, 32, 36H
O.L.D.	ø9(ID5)* 100*110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	61.5mm
Sealed Cartridge Bearings	2pcs
Weight	118g

R038R

Spoke Hole	20, 24, 28, 32, 36H
O.L.D.	ø10(ID5)* 130*140mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	61.5mm
Sealed Cartridge Bearings	4pcs
Weight	231g





To tackle bumpy and muddy terrains, the Gravel Series hubs are equipped with a 6-pawls, 60T drive system.

The precise engagement delivers seamless power transfer, while the tightly sealed waterproof and dustproof design ensures durability, making it a favorite in the market.

F006F

Spoke Hole	28H
O.L.D.	110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43.6mm/37.6mm
Sealed Cartridge Bearings	2pcs
Brake Interface	Center Lock
Weight	111g

F007F

Spoke Hole	28H
O.L.D.	110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43mm/37mm
Sealed Cartridge Bearings	2pcs
Brake Interface	Center Lock
Weight	114g

F006R

48T NEW ZERO-TIME
PLANAR TOOTH RATCHET



Spoke Hole	28H
O.L.D.	148mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43.6mm/49.4mm
Sealed Cartridge Bearings	4pcs
Freehub Body	New Zero-time Planar Tooth Ratchet (48T)
Weight	213g



48T NEW ZERO-TIME
PLANAR TOOTH RATCHET

Spoke Hole	28H
O.L.D.	148mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43mm/49mm
Sealed Cartridge Bearings	4pcs
Brake Interface	Center Lock
Freehub Body	New Zero-time Planar Tooth Ratchet (48T)
Weight	224g

F007R

F002R**48T NEW ZERO-TIME
PLANAR TOOTH RATCHET**

Spoke Hole	24, 28H
O.L.D.	142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6066 T6
Flange P.C.D.	38mm/46mm
Sealed Cartridge Bearings	261507*2pcs 241505*2pcs
Freehub Body	New Zero-time Planar Tooth Ratchet (48T)
Weight	210g

G001F

Spoke Hole	20, 24H
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43mm/37mm
Sealed Cartridge Bearings	4pcs
Weight	111g

**6 PAWLS 60T 6° ENHANCED WATERPROOFING****G001R**

Spoke Hole	24, 28H
O.L.D.	142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	43mm/55mm
Sealed Cartridge Bearings	4pcs
Freehub Body	60T/6° Engagement angle design
Weight	236g



G003F

Spoke Hole	20, 24H
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	44mm/37mm
Sealed Cartridge Bearings	2pcs
Weight	107g

CARBON SPOKE HUB

G009F

Carbon Spoke Hole	14-7H
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	45mm/31mm
Sealed Cartridge Bearings	6802*2pcs
Weight	115g

G003R6 PAWLS 60T 6° **ENHANCED WATERPROOFING**

Spoke Hole	24, 28H
O.L.D.	142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	46mm/57mm
Sealed Cartridge Bearings	4pcs
Freehub Body	60T/6° Engagement angle design
Weight	245g

6 PAWLS 60T 6° **ENHANCED WATERPROOFING****G009R**

CARBON SPOKE HUB



Carbon Spoke Hole	8-16H
O.L.D.	142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 7075 T6
Flange P.C.D.	47mm/57mm
Sealed Cartridge Bearings	6902*2pcs 6802*2pcs
Freehub Body	60T/6° Engagement angle design
Weight	230g



Hubsmith brings professional expertise and innovative technology to the mini wheelset field.

The mini hubs come in a variety of styles, and in the aftermarket, Hubsmith hubs are highly regarded for their exceptional quality.

R015R

BROMPTON SPEC



Spoke Hole	7-14, 8-16, 16, 18, 20, 24, 28, 32H
O.L.D.	M10* 112*154mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	51mm
Sealed Cartridge Bearings	4pcs
Weight	227g

BROMPTON SPEC

RS01F

Spoke Hole	14, 16, 18, 20, 24, 28H
O.L.D.	74mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6066 T6
Flange P.C.D.	31mm
Sealed Cartridge Bearings	2pcs
Weight	57g

BROMPTON SPEC

RS02F

Spoke Hole	14, 16, 18, 20, 24, 28H
O.L.D.	ø9(ID5)*74*84mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 7075 T6
Flange P.C.D.	22mm
Sealed Cartridge Bearings	2pcs
Weight	61g

RS27F

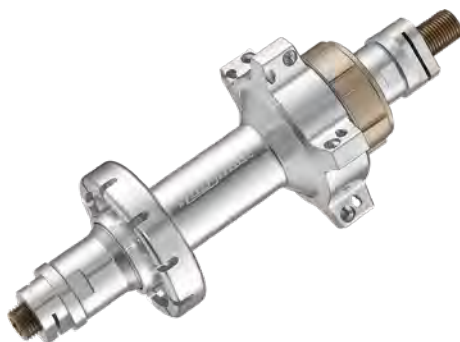
BIRDY SPEC



Spoke Hole	20, 24, 28H
O.L.D.	ø9(ID5)*100*110mm ø9(ID5)*74*84mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	41mm
Sealed Cartridge Bearings	2pcs
Weight	ø5*74mm 113g ø5*100mm 118g

RS20R

BROMPTON SPEC



Spoke Hole	20H
O.L.D.	M10* 112*154mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	40.8mm/52mm
Sealed Cartridge Bearings	3pcs
Weight	214g

BROMPTON SPEC

RS42F

Spoke Hole	20H
O.L.D.	74mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	31mm
Sealed Cartridge Bearings	2pcs
Weight	59g

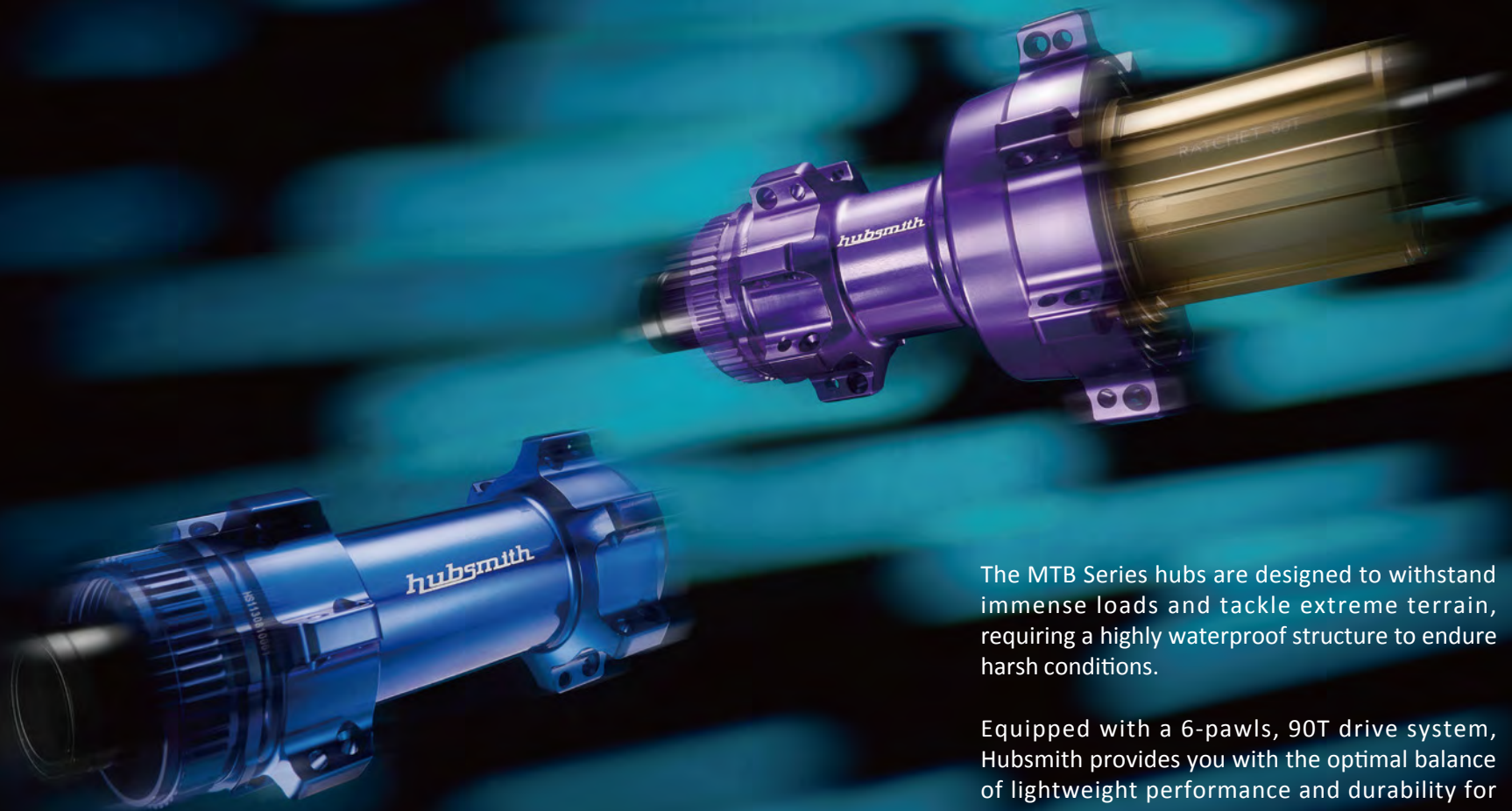


BROMPTON SPEC

RS42R

Spoke Hole	20H
O.L.D.	112mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6066 T6
Flange P.C.D.	50mm
Sealed Cartridge Bearings	4pcs
Weight	204g





The MTB Series hubs are designed to withstand immense loads and tackle extreme terrain, requiring a highly waterproof structure to endure harsh conditions.

Equipped with a 6-pawls, 90T drive system, Hubsmith provides you with the optimal balance of lightweight performance and durability for every ride into the wild.



MP01F

Spoke Hole	24, 28, 32
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6066 T6
Flange P.C.D.	41mm/56.5mm
Sealed Cartridge Bearings	2pcs
Brake Interface	6-bolt
Weight	132g

Replaceable caps

MP01R

Spoke Hole	24, 28, 32, 36
O.L.D.	135mm or 142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6066 T6
Flange P.C.D.	56.5mm
Sealed Cartridge Bearings	4pcs
Brake Interface	6-bolt
Weight	234g

Replaceable caps

The hubset weight does not include replaceable caps and axle. More information on cap and axle specifications can be found on page 68.

M016F

Spoke Hole	24, 28, 32, 36H
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 7075 T6
Flange P.C.D.	54.5mm
Sealed Cartridge Bearings	2pcs
Brake Interface	6-Bolt
Weight	120g

M016R

Spoke Hole	24, 28, 32, 36H
O.L.D.	135mm or 142mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 7075 T6
Flange P.C.D.	54.5mm
Sealed Cartridge Bearings	4pcs
Brake Interface	6-Bolt
Weight	218g

M018F

Spoke Hole	28, 32, 36
O.L.D.	ø15mm*110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	58mm
Sealed Cartridge Bearings	2pcs (6804)
Brake Interface	6-Bolt
Weight	181g

M018R

Spoke Hole	28, 32, 36
O.L.D.	ø12mm*148mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	58mm
Sealed Cartridge Bearings	4pcs (6902)
Brake Interface	6-Bolt
Weight	274g

The hubset weight does not include replaceable caps and axle. More information on cap and axle specifications can be found on page 68.

FAT BIKE**M010F**

Spoke Hole	24, 28, 32, 36
O.L.D.	(ID5)*150mm*160mm (ID9)*150mm*150mm (ID15)*150mm*150mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	56.5mm
Sealed Cartridge Bearings	2pcs
Brake Interface	6-Bolt
Weight	201g

Replaceable caps

**FAT BIKE****M010R**

Spoke Hole	24, 28, 32, 36
O.L.D.	(ID10)*190mm*190mm (ID12)*190mm*190mm (ID10)*197mm*197mm (ID12)*197mm*197mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	56.5mm
Sealed Cartridge Bearings	5pcs
Brake Interface	6-Bolt
Weight	287g

Replaceable cap and axle



The hubset weight does not include replaceable caps and axle. More information on cap and axle specifications can be found on page 69.

M009F**FAT BIKE**

Spoke Hole	24, 28, 32, 36h
O.L.D.	(ID5)*135mm*145mm (ID9)*135mm*135mm (ID15)*135mm*135mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	56.5mm
Sealed Cartridge Bearings	2pcs
Brake Interface	6-Bolt
Weight	188g

Replaceable caps

M009R**FAT BIKE**

Spoke Hole	24, 28, 32, 36h
O.L.D.	(ID10)*170mm*170mm (ID12)*170mm*170mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	56.5mm
Sealed Cartridge Bearings	5pcs
Brake Interface	6-Bolt
Weight	271g

Replaceable cap and axle

The hubset weight does not include replaceable caps and axle. More information on cap and axle specifications can be found on page 69.

MB15F

Spoke Hole	24, 28H
O.L.D.	110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	45mm/39mm
Sealed Cartridge Bearings	2pcs
Brake Interface	Center Lock
Weight	123g



6 PAWLS 90T 2°
ENHANCED WATERPROOFING

**MB15R**

Spoke Hole	24, 28H
O.L.D.	148mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 7075 T6
Flange P.C.D.	49mm/65mm
Sealed Cartridge Bearings	4pcs
Brake Interface	Center Lock
Freehub Body	90T/2° Engagement angle design
Weight	281g



MB16F

Spoke Hole	24, 28H
O.L.D.	110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	48mm/39mm
Sealed Cartridge Bearings	2pcs
Brake Interface	Center Lock
Weight	131g

MB16R**6 PAWLS 90T 2°****ENHANCED WATERPROOFING**

Spoke Hole	24, 28H
O.L.D.	148mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	48mm/62mm
Sealed Cartridge Bearings	4pcs
Brake Interface	Center Lock
Freehub Body	90T/2° Engagement angle design
Weight	278g

F013F

Spoke Hole	24H
O.L.D.	110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	41mm
Sealed Cartridge Bearings	2pcs
Brake Interface	Center Lock
Weight	124g

**80T NEW ZERO-TIME
PLANAR TOOTH RATCHET****ENHANCED WATERPROOFING****F013R**

Spoke Hole	28H
O.L.D.	148mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	41mm/62mm
Sealed Cartridge Bearings	4pcs
Brake Interface	Center Lock
Freehub Body	Zero-time planar tooth ratchet (80T)
Weight	275g



MB21F

Spoke Hole	28, 32H
O.L.D.	110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	57mm/49mm
Sealed Cartridge Bearings	2pcs
Weight	141g

MB22F

Spoke Hole	28H
O.L.D.	110mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	41mm/37mm
Sealed Cartridge Bearings	2pcs
Weight	135g

MB21R**6 PAWLS 90T 2°****ENHANCED WATERPROOFING**

Spoke Hole	28, 32H
O.L.D.	157mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 7075 T6
Flange P.C.D.	57mm/65mm
Sealed Cartridge Bearings	4pcs
Freehub Body	90T/2° Engagement angle design
Weight	293g

**6 PAWLS 90T 2°****ENHANCED WATERPROOFING****MB22R**

Spoke Hole	28H
O.L.D.	157mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	41mm/60mm
Sealed Cartridge Bearings	4pcs
Freehub Body	90T/2° Engagement angle design
Weight	283g

HS-MP01

Front Hub		Rear Hub			
2 Caps / Weight		2 Caps / Weight			
5mm	20.2g	5mm	Shimano	O.L.D. 135	13.5g
9mm	17.2g	5mm	Sram XX1	O.L.D. 135	17g
12mm	10g	10mm	Shimano	O.L.D. 135	11g
15mm	6.8g	10mm	Sram XX1	O.L.D. 135	14.5g
		10mm	Shimano	O.L.D. 142	14.6g
		10mm	Sram XX1	O.L.D. 142	18.1g
		12mm	Shimano	O.L.D. 135	10.6g
		12mm	Sram XX1	O.L.D. 135	14.1g
		12mm	Shimano	O.L.D. 142	13.4g
		12mm	Sram XX1	O.L.D. 142	16.9g

HS-M010

Front Hub		Rear Hub			
2 Caps / Weight		Rear hub left Cap+Axle/ Weight			
5mm	19.8g	10mm	Shimano	O.L.D. 190	66.6g
9mm	17g	10mm	Sram XX1	O.L.D. 190	69.8g
15mm	6.4g	12mm	Shimano	O.L.D. 190	4.5g
		12mm	Sram XX1	O.L.D. 190	50.7g
		10mm	Shimano	O.L.D. 197	70g
		10mm	Sram XX1	O.L.D. 197	73.2g
		12mm	Shimano	O.L.D. 197	50.6g
		12mm	Sram XX1	O.L.D. 197	53.8g

HS-M018

Front Hub		Rear Hub			
2 Caps / Weight		2 Caps / Weight			
5mm	16.7g	5mm	Shimano	O.L.D. 135	19.2g
10mm	13.5g	10mm	Shimano	O.L.D. 135	16.1g
12mm	12.3g	12mm	Shimano	O.L.D. 135	14.9g
		10mm	Shimano	O.L.D. 142	19.8g
		12mm	Shimano	O.L.D. 142	18.6g

HS-M009

Front Hub		Rear Hub			
2 Caps / Weight		Rear hub left Cap+Axle/ Weight			
5mm	19.8g	10mm	Shimano	O.L.D. 170	61.2g
9mm	17g	10mm	Sram XX1	O.L.D. 170	64.4g
15mm	6.4g	12mm	Shimano	O.L.D. 170	44g
		12mm	Sram XX1	O.L.D. 170	47.2g



C001R



Spoke Hole	24/28/32/36H
O.L.D.	ø10(ID5)*135mm*145mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	56.5mm
Sealed Cartridge Bearings	4pcs
Brake Interface	Non-disc
Weight	294g

C003F



Spoke Hole	36H
O.L.D.	100mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	54mm
Sealed Cartridge Bearings	2pcs
Brake Interface	Non-disc
Weight	213g

C003R



Spoke Hole	36H
O.L.D.	100mm-10mm(3/8")
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	65mm
Sealed Cartridge Bearings	5pcs
Drive System	Shimano Hyperglide
Weight	497g



B003F

Spoke Hole	28, 32, 36H
O.L.D.	M9*100~140mm
Axle Material	SCM415
Hub Material	Alloy 6061 T6
Flange P.C.D.	61.5mm
Sealed Cartridge Bearings	2pcs
Weight	240g

B003R

Spoke Hole	28, 32, 36H
O.L.D.	M10*120~175mm
Axle Material	SCM415
Hub Material	Alloy 6061 T6
Flange P.C.D.	61.5mm
Sealed Cartridge Bearings	2pcs
Weight	313g

B008F

Spoke Hole	20, 24, 28
O.L.D.	M9*100~140mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	44.8mm
Sealed Cartridge Bearings	2pcs
Weight	141g

B008R

Spoke Hole	20, 24, 28
O.L.D.	M10*120~175mm
Axle Material	Alloy 7075 T6
Hub Material	Alloy 6061 T6
Flange P.C.D.	46mm
Sealed Cartridge Bearings	2pcs
Weight	215g

B009F

Spoke Hole	28, 32, 36H
O.L.D.	M9*100-140mm
Axle Material	SCM415
Hub Material	Alloy 6061 T6
Flange P.C.D.	91mm
Sealed Cartridge Bearings	2pcs
Weight	260g

B009R

Spoke Hole	28, 32, 36H
O.L.D.	M10*120-175mm
Axle Material	SCM415
Hub Material	Alloy 6061 T6
Flange P.C.D.	91mm
Sealed Cartridge Bearings	2pcs
Weight	318g





SHIMANO Pawls System



HS-RS4808		
Teeth	Pawls	Clicks
48	3	9
Material	Alloy 7075 (Hard anode)	
Pawls System	Shimano Capreo	
with spacer		



HS-RS4811 (S.W.P)		
Teeth	Pawls	Clicks
48	3	9
Material	Alloy 7075 (Hard anode)	
Pawls System	Shimano HG	
with spacer		



HS-RS6011		
Waterproof seal		
Teeth	Pawls	Clicks
60	6	12
Material	Alloy 7075 (Hard anode)	
Pawls System	Shimano HG	
6° Engagement angle		

CAMPAGNOLO Pawls System



HS-RC4811		
Teeth	Pawls	Clicks
48	3	9
Material	Alloy 7075 (Hard anode)	
Pawls System	Campy 11sp	



HS-RC4813		
Teeth	Pawls	Clicks
48	3	9
Material	Alloy 7075 (Hard anode)	
Pawls System	Campy Ekar	

SRAM Pawls System



HS-RX4812		
Teeth	Pawls	Clicks
48	3	9
Material	Alloy 7075 (Hard anode)	
Pawls System	Sram XDR	



HS-RX6012		
Waterproof seal		
Teeth	Pawls	Clicks
60	6	12
Material	Alloy 7075 (Hard anode)	
Pawls System	Sram XDR	
6° Engagement angle		

SHIMANO
Ratchet System



ROAD/GRAVEL

HS-FC4811 (S.W.P.)	
Material	Alloy 7075 (Hard anode)
Teeth	48
Ratchet System	Shimano HG

SRAM
Ratchet System



HS-FX4812	
Material	Alloy 7075 (Hard anode)
Teeth	48
Ratchet System	Sram XDR

CAMPAGNOLO
Ratchet System



HS-FC4813	
Material	Alloy 7075 (Hard anode)
Teeth	48
Ratchet System	Campy Ekar

Ratchet
Repair Parts

Service Kit Rear Hub with Ratchet 48T



SHIMANO Pawls System



HS-MS4811		
Teeth	Pawls	Clicks
48	4	12
Material	Alloy 7075 (Hard anode)	
Pawls System	Shimano HG	



HS-MS4812		
Teeth	Pawls	Clicks
48	4	12
Material	Alloy 7075 (Hard anode)	
Pawls System	Shimano MS	



HS-MS9011		
Waterproof seal		
Teeth	Pawls	Clicks
90	6	12
Material	Alloy 7075 (Hard anode)	
Pawls System	Shimano HG	
2° Engagement angle		



HS-MS9012		
Waterproof seal		
Teeth	Pawls	Clicks
90	6	12
Material	Alloy 7075 (Hard anode)	
Pawls System	Shimano MS	
2° Engagement angle		

SRAM Pawls System



HS-MX9011		
Waterproof seal		
Teeth	Pawls	Clicks
90	6	12
Material	Alloy 7075 (Hard anode)	
Pawls System	Sram XX1	
2° Engagement angle		



HS-MX4811		
Teeth	Pawls	Clicks
48	4	12
Material	Alloy 7075 (Hard anode)	
Pawls System	Sram XX1	

SHIMANO Ratchet System



HS-FMS4812	
Material	Alloy 7075 (Hard anode)
Teeth	48
Ratchet System	Shimano MS

A close-up, low-angle shot of a motorcycle engine, focusing on the cylinder head and valve train. The metal surfaces are highly detailed with various textures, including machined grooves and a fine-grained finish. A bright light source from the upper left creates strong highlights and deep shadows, emphasizing the mechanical complexity. A green text overlay is centered in the middle of the frame.

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How-to video



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