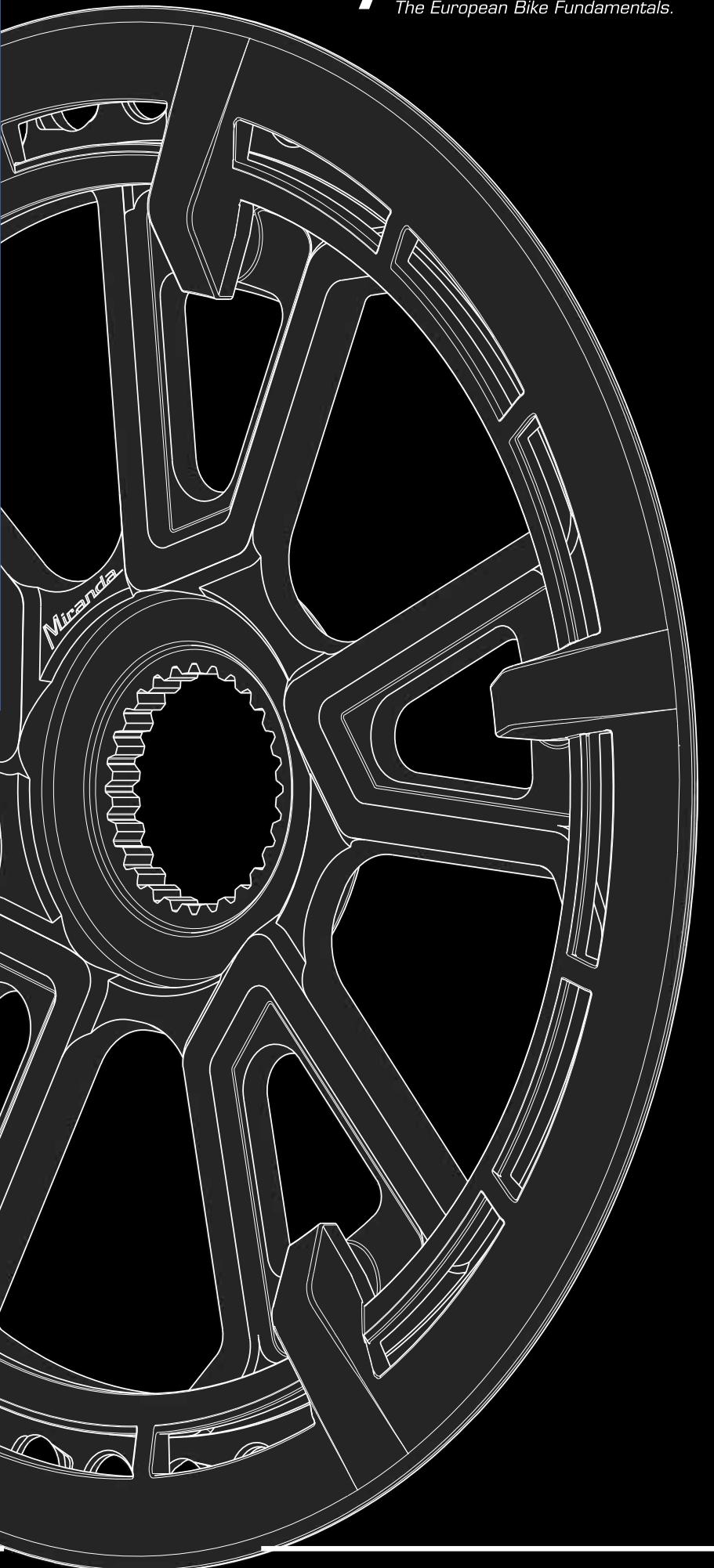


20 26

E-BIKE CATALOG

Micanda
The European Bike Fundamentals.



Miranda & Irmão, established in 1950, has a rich legacy and extensive expertise, honed over the decades through a journey that began with complementary bicycle components in the 50s, the motorcycle industry in the early 70s and culminated in bicycle components again in the late 80s. Today, Miranda is a leading manufacturer of bicycle components, recognized for its unparalleled reliability, quality, and design excellence. The company's commitment to innovation and research and development has resulted in numerous awards and recognition as one of the largest companies investing in innovation and international IP, within Portugal.

As a cutting-edge, industry-leading company, Miranda leverages the latest in Industry 4.0 technology and innovative manufacturing techniques to continuously optimize its production processes and workflows. The company's world-class factory is one of the most advanced in the industry, boasting a footprint of over 30000 sqm and near 100% control over its production processes. This control allows Miranda to continuously experiment with new approaches and test new materials and techniques, resulting in unique, high-quality solutions. Additionally, the company's commitment to environmental preservation is demonstrated through its use of 100% renewable energy sources and its focus on reducing waste and investing in energy-efficient machinery.

Miranda's strategic location, less than an hour from a major airport and sea port in Porto and within 3 hours of a plane ride to the center of Europe, further strengthens its competitive advantage. The company's technical know-how is supported by its own World Class Professional Teams, who test and refine its solutions through rigorous competition. In 2020, Miranda was the World Champion in the first ever global e-Bike competition, with its athletes consistently taking the podium in the following years.





The company's commitment to excellence is reflected in its rapid response to customer needs and its ability to produce high-quality, value-added solutions that are tailored to meet their specific requirements. Miranda's lead times are market-leading, a result of its substantial investment in manufacturing capacities and its ability to rapidly understand and solve problems in a cost-effective manner.

As a bicycle components leader with established "green" manufacturing practices, Miranda is paving the way for the bicycle industry around the world. Our commitment to constantly improve and deliver exceptional products is unwavering and we are here to serve you.

Miranda





Cranksets with a single chainring



Cranksets with dual chainrings



Cranksets with three chainrings



Interchangeable cranksets parts



Cranksets with integrated axle



ISIS Interface Standard



JIS square taper Standard



BNI Interface for Bosch Gen3



Dual side Screws Shimano Interface



Dual side Screws Shimano Interface for EP Drive Units



Fazua RIDE 60 Interface **NEW**



Dual side Screws Bafang Interface for M420, M500, M600 and M800



with CHAINFLOW Technology

Titanium Crankset



Interchangeable cranksets parts



Bottom Bracket BSA 68/73 with 24/22 Size



Bottom Bracket BSA 68/73 with 24/24 Size



Bottom Bracket Pressfit with 24/22 Size



Bottom Bracket Pressfit with 24/24 Size

CRANKSET —



Economical chainring option



Bi-dimensional Anti-chaindrop control



Bottom Bracket Pressfit with 24/22 Size



Bottom Bracket Pressfit with 24/24 Size

BOTTOM BRACKETS —



Tri-dimensional Anti-chaindrop control 9-10-11-12 speed



Shifting without Drops



Carbon Nanoscaled Coating



Tri-dimensional Anti-chaindrop control specific for Shimano Hyperglide+ and DLC 12 KMC



Tri-dimensional Anti-chaindrop control specific for 13 speed EKAR C13 Campagnolo **NEW**

CHAINRINGS TECHNOLOGY —



Easy and fast Installation



Durable and resistant Carbon reinforced

SEAT POST —

CABLE CLAMPS —

E-Bike Index



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EBIKE SOLUTIONS



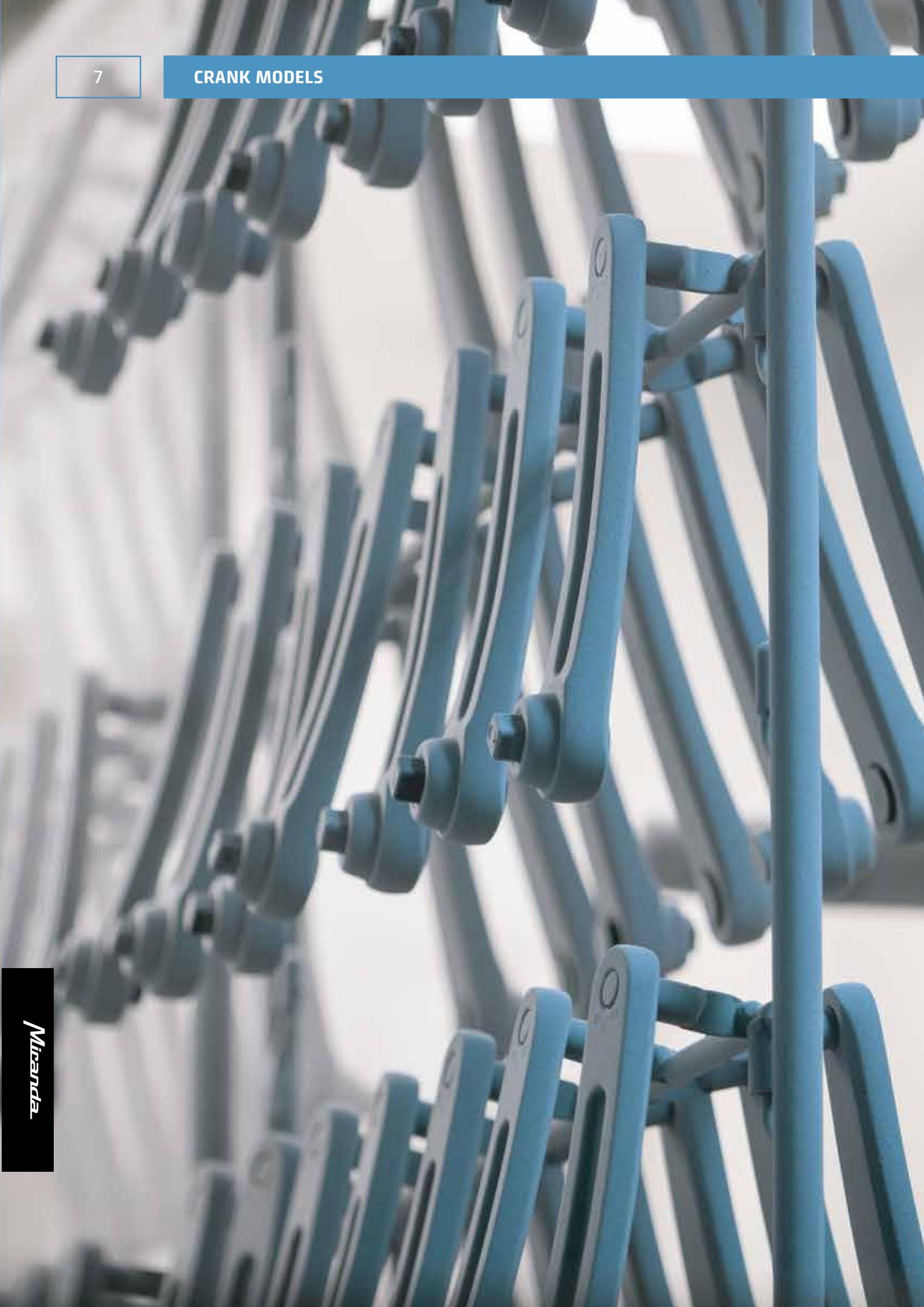


As the world of cycling evolves, e-bikes have emerged as a revolutionary mode of transportation and recreation. Miranda has been at the forefront of the e-bike revolution from its early days. With our unwavering commitment to quality, innovation, and sustainability, we supply e-bike manufacturers with durable and high-performance components that power the electric riding experience.

We take pride in manufacturing our e-bike parts in Europe, more specifically in our state-of-the-art facilities located in Águeda, Portugal. By producing locally, we ensure stringent quality control and continuously push the boundaries of innovation. Sustainability is deeply ingrained in our production process as we incorporate recycled aluminum into our parts. This not only reduces waste but also promotes a circular economy, minimizing our environmental impact. Our commitment to sustainability extends throughout our operations, from sourcing to manufacturing, ensuring that our e-bike parts are not only cutting-edge but also environmentally conscious. As an example of our dedication to sustainability practices, we produce our components using 100% green electricity and we have other several sustainable practices in place to reduce at maximum our emissions.

We understand that each e-bike is unique, reflecting the personality and preferences of its rider. That's why we offer a wide range of customizable solutions. With our in-house production process, we have the flexibility to adapt to the diverse needs of e-bike manufacturers, providing them with bespoke components that align precisely with their requirements. From precision-engineered chainrings to reliable cranksets, our e-bike parts are designed for optimal performance, durability, and customization.

Whether you're commuting through city streets, embarking on long-distance adventures, or exploring off-road trails, our components will power your e-bike experience to new heights.



CRANK MODELS

The Ultimate Properties of our Cold-Forged Aluminium E-Bike Cranks: An Engineering Marvel

Our e-bike cranks have been designed with a single purpose in mind: to eliminate any and all weak points in their structure. The use of proprietary cold-forging techniques, along with a carefully crafted composition of materials, has allowed us to create cranks that are not only lightweight, but also incredibly resistant to fatigue and high-impact stress. Also, are environmentally friendly, since we use recycled aluminium and 100% green electricity to produce them.

Moreover, the use of advanced computational simulations and extensive real-world testing has allowed us to fine-tune the design of the cranks to ensure that they perform at the highest level possible. The result is a product that is not only lightweight, but also incredibly durable and reliable, making it an ideal choice for e-bike enthusiasts who demand the best performance from their equipment.

The cold-forging process involves subjecting the aluminium to intense pressure and temperature, which not only strengthens the material, but also refines its microstructure to create a more homogeneous and consistent structure. Our process has several advantages, since we do it uniquely and in a fully automatic way, keeping the properties of material always stable, ensuring the highest quality standards. Our process, made entirely in Portugal, allows our cranks to be more resistant to fatigue and high-impact stress.

If you're looking for cranks that are strong, reliable and built to last, look no further than our e-bike cranks.



CARBON CRANKS



SPECIFICATIONS

REF. 001

Interface



Length (mm)

150 . 155 . 160 . 165 . 170

Weight (g)*

141

Finishes

Standard



CRANK Q-FACTORS	A	B	C	D
Q:8	8,5 mm	28,6 mm	10,5 mm	22,2 mm
Q:8-FB	8,5 mm	32,2 mm	13,5 mm	25,2 mm
55Q:8	8,5 mm	34 mm	16 mm	27,7 mm

*crank (ISIS 165/Q:8) without bolt

Lightweight Design Excellence

Our engineering team has expertly aligned the carbon fibers to optimize the properties, resulting in a carbon fiber e-crank that sets the standard in both design and weight. Experience the pinnacle of engineering and enjoy the benefits of our ultra-light e-crank, **designed and manufactured in Portugal**.

Superior Strength and Durability

Our carbon fiber e-bike cranks have been engineered to deliver ultimate performance. Featuring a crash-resistant carbon fiber composite and expertly designed material composition, our cranks provide an unmatched strength-to-weight ratio. Choose the best and upgrade your e-bike with our top-of-the-line carbon fiber cranks.



Mithos

NEW



SPECIFICATIONS

REF. 019

Interface



Material

Aluminium

Length (mm)

150 . 155 . 165
170

Weight (g)*

179

Finishes**

Standard



CRANK Q-FACTORS	A	B	C	D
Q:2	2,1 mm	27,1 mm	10,5 mm	16,2 mm
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
Q:12	12,1 mm	27,1 mm	10,5 mm	26,2 mm

*crank (170/Q:2) without bolt

**Samples of the finishes on page 123

The Advantages of Our Cold-Forging Process

The cold-forging process involves subjecting the aluminium to intense pressure, which strengthens the material and creates a more homogeneous and consistent structure. Our process is fully automatic in a very stable and controlled process, ensuring the highest quality standards everytime.

Experience the Ultimate Properties of Our E-Bike Cranks

If you're looking for cranks that are strong, reliable, and built to last, look no further than our e-bike cranks. Experience the difference in performance and quality today. The cranks can be customized to fit every need of the customer, from length to aesthetics and other special aspects such as the interface.

Virage

REF.020

NEW**Material**

Aluminium

Length (mm)

165 . 170

172,5 . 175

Weight (g)*

200

Finishes**

Standard

CRANK Q-FACTORS	A	B	C	D
Q:12	12,1 mm	27,1 mm	10,5 mm	26,2 mm

*crank (170/Q:12)

**Samples of the finishes on page 123



Beta

REF. 004

**Material**

Aluminium

Length (mm)

170 . 175

Weight (g)*

185

CRANK Q-FACTORS	A	B	C	D
Q:8	8,6 mm	26,6 mm	10,5 mm	22,2 mm
Q:16	16,6 mm	26,6 mm	10,5 mm	30,2 mm

*crank (ISIS 170/Q:16) without bolt

**samples of the finishes on page 123

Finishes**

Standard

Pearl

Plus

Delta

REF. 002

**Material**

Aluminium

Length (mm)150 . 152 . 155 . 160
165 . 170 . 172,5 . 175**Weight (g)***

245

CRANK Q-FACTORS	A	B	C	D
Q:0	0 mm	27,1 mm	10,5 mm	14,1 mm
Q:4	4 mm	27,1 mm	10,5 mm	18,1 mm
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
Q:8-FB	8,1 mm	30,1 mm	13,5 mm	25,2 mm
Q:16	16,1 mm	27,1 mm	10,5 mm	30,2 mm
55Q:16	16,1 mm	32,6 mm	16 mm	35,7 mm
Q:16-UC	16,1 mm	38,9 mm	22,3 mm	42 mm
Q:19	19,1 mm	27,1 mm	10,5 mm	33,2 mm
Q:21-FB	21,1 mm	30,1 mm	13,5 mm	38,2 mm
55Q:21	21,1 mm	32,6 mm	16 mm	40,7 mm
Q:29,5-UC	29,5 mm	38,9 mm	22,3 mm	55,5 mm
55Q:29,5	29,6 mm	32,6 mm	16 mm	49,2 mm
Q:35	35,1 mm	27,1 mm	10,5 mm	49,2 mm
55Q:35	35,1 mm	32,6 mm	16 mm	54,7 mm
Q:38	38,1 mm	27,1 mm	10,5 mm	52,2 mm

*crank (ISIS 170/Q:16) without bolt

**samples of the finishes on page 123

Classic

REF. 003


Material

Aluminium

Length (mm)
152,5 . 160 . 170
172,5 . 175
Weight (g)*

195

Finishes**
Standard
Polished
Diamant
Pearl
Plus

CRANK Q-FACTORS	A	B	C	D
Q:12	12,1 mm	27,1 mm	10,5 mm	26,2 mm
Q:16	16,1 mm	27,1 mm	10,5 mm	30,2 mm

*crank (ISOS 170/Q:12) without bolt

**Samples of the finishes on page 123

Epsilon

REF. 005


Material

Aluminium

Length (mm)

165 . 170 . 175

Weight (g)*

201

Finishes**

Standard

CRANK Q-FACTORS	A	B	C	D
Q:0	0 mm	27,1 mm	10,5 mm	14,1 mm
Q:4	4 mm	27,1 mm	10,5 mm	18,1 mm
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
55Q:8	8 mm	32,7 mm	12,5 mm	27,7 mm
Q:16	16 mm	27,2 mm	10,5 mm	30,2 mm
55Q:21	21,1 mm	32,6 mm	16 mm	40,7 mm
Q:35	35,1 mm	27,1 mm	10,5 mm	49,2 mm

*crank (ISOS 165/Q:8) without bolt

**Samples of the finishes on page 123

Crius

REF. 011

**Material**

Aluminium

Length (mm)

150 . 152 . 155

160 . 165 . 170

Weight (g)*

240

Finishes**

Standard

Polished

Diamant

Double Diamant

Inline

Graphic

HD

CRANK Q-FACTORS	A	B	C	D
Q:0	0 mm	27,1 mm	10,5 mm	14,1 mm
Q:4	4 mm	27,1 mm	10,5 mm	18,1 mm
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
Q:16	16 mm	27,2 mm	10,5 mm	30,2 mm

*crank (ISIS 170/Q:16) without bolt

**Samples of the finishes on page 123

Mirage

REF. 012

**Material**

Aluminium

Length (mm)

150 . 152 . 155

160 . 165 . 170

Weight (g)*

245

Finishes**

Standard

Polished

Diamant

Double Diamant

CRANK Q-FACTORS	A	B	C	D
Q:0	0 mm	27,1 mm	10,5 mm	14,1 mm
Q:4	4 mm	27,1 mm	10,5 mm	18,1 mm
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
Q:16	16 mm	27,2 mm	10,5 mm	30,2 mm

*crank (ISIS 170/Q:16) without bolt

**Samples of the finishes on page 123

Kappa

REF.006

**Material**

Aluminium

Length (mm)150 . 155 . 160
170 . 175**Weight (g)***

227

Finishes**

Standard

CRANK Q-FACTORS	A	B	C	D
Q:0	0 mm	27,1 mm	10,5 mm	14,1 mm
Q:4	4 mm	27,1 mm	10,5 mm	18,1 mm
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
Q:16	16,1 mm	27,1 mm	10,5 mm	30,2 mm
Q:21	21,1 mm	27,1 mm	10,5 mm	35,2 mm
Q:35	35,1 mm	27,1 mm	10,5 mm	49,2 mm

*crank (ISIS 170/Q:0) without bolt

**Samples of the finishes on page 123

Omega

REF. 007

**Material**

Aluminium

Length (mm)150 . 152 . 155
160 . 165 . 170**Weight (g)***

222

Finishes**Standard
Polished
Diamant
Double Diamant

CRANK Q-FACTORS	A	B	C	D
Q:0	0 mm	27,1 mm	10,5 mm	14,1 mm
Q:4	4 mm	27,1 mm	10,5 mm	18,1 mm
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
Q:16	16 mm	27,2 mm	10,5 mm	30,2 mm

*crank (ISIS 160/Q:16) without bolt

**Samples of the finishes on page 123

Sigma

REF. 008

**Material**

Aluminium

Length (mm)

160 . 165 .170

Weight (g)*

250

Finishes**

Standard

CRANK Q-FACTORS	A	B	C	D
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
Q:12	12,1 mm	27,1 mm	10,5 mm	26,2 mm
Q:16	16,1 mm	27,1 mm	10,5 mm	30,2 mm

*crank (ISIS 170/Q:16) without bolt

**Samples of the finishes on page 123

Kies

REF. 009

**Material**

Aluminium

Length (mm)

160 . 165 .170

Weight (g)*

240

Finishes**

Standard

CRANK Q-FACTORS	A	B	C	D
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
Q:12	12,1 mm	27,1 mm	10,5 mm	26,2 mm

*crank (ISIS 170/Q:16) without bolt

**Samples of the finishes on page 123

Strada

REF. 010

**Material**

Aluminium

Length (mm)

160 . 165 . 170

Weight (g)*

277

Finishes**

Standard

CRANK Q-FACTORS	A	B	C	D
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
Q:16	16,1 mm	27,1 mm	10,5 mm	30,2 mm

*crank (ISIS 170/Q:8) without bolt

**Samples of the finishes on page 123

Tethys

REF. 013

**Material**

Aluminium

Length (mm)150 . 152 . 155
160 . 165 . 170**Weight (g)***

240

Finishes**

Standard

CRANK Q-FACTORS	A	B	C	D
Q:0	0 mm	27,1 mm	10,5 mm	14,1 mm
Q:4	4 mm	27,1 mm	10,5 mm	18,1 mm
Q:8	8,1 mm	27,1 mm	10,5 mm	22,2 mm
Q:16	16 mm	27,2 mm	10,5 mm	30,2 mm

*crank (ISIS 170/Q:16) without bolt

**Samples of the finishes on page 123

Delta BFG

REF.014


Material

Aluminium

Length (mm)
150 . 155 . 160
165 . 170
Weight (g)*

241

Finishes**
Standard
Plus
Anodized

CRANK Q-FACTORS	A	B	C	D
Q:16	16,1 mm	27,1 mm	10,5 mm	30,2 mm

*crank (155/Q:16)

**Samples of the finishes on page 123

Delta LS

REF. 015


Material

Aluminium

Length (mm)
150 . 155 . 160
165 . 170
Weight (g)*

241

Finishes**
Standard
Plus
Anodized

CRANK Q-FACTORS	A	B	C	D
Q:16	16,1 mm	28,2 mm	12,5 mm	29,8 mm
Q:35	35,1 mm	28,2 mm	12,5 mm	48,8 mm

*crank (155/Q:16)

**Samples of the finishes on page 123

CHAINRINGS

Chainflow 3D BCD110



SPECIFICATIONS REF. 300

Material
Aluminium

Teeth*
34T to 50T

Weight (g)
45 to 150

Finishes
Anodized

* other sizes available by request
In order to choose tooth type please check chain compatibility in page 124

Chainflow 3D BCD104



SPECIFICATIONS REF. 301

Material
Aluminium
Steel

Teeth*
32T to 52T and 56T

Weight (g)**
47

Finishes
Standard

* other sizes available by request
** with 32T Chainring
In order to choose tooth type please check chain compatibility in page 124

Chainflow BCD104



* other sizes available by request
 ** with 40T Chainring
 In order to choose tooth type please check chain compatibility in page 124

SPECIFICATIONS

REF. 302

Material

Aluminium
Steel

Teeth*

32T to 44T and
48T to 52T

Weight (g)**

66

Finishes

Standard

Standard Chainring



* other sizes available by request
 In order to choose tooth type please check chain compatibility in page 124

SPECIFICATIONS

REF. 303

Material

Aluminium
Steel

Teeth*

32T to 52T and
56T

Weight (g)

40 to 277

Finishes

Standard

Double Chainring BCD110



* other sizes available by request
 In order to choose tooth type please check chain compatibility in page 124

SPECIFICATIONS

REF. 304

Material

Aluminium

Teeth*

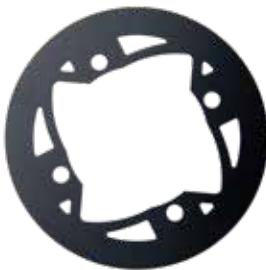
34/50T

Weight (g)

180

Finishes

Standard

CF3D
REF. 400

Material
Aluminium
BCD
104
Finishes
Standard

TS GRAPHIC
REF. 402

Material
Aluminium
BCD
104
Finishes
Standard

NW GRAPHIC
REF. 406

Material
Aluminium
BCD
104
Finishes
Standard

CHAINGUARDS

Introducing Our Range of High-Performance Chainguards

Our chainguards are designed to provide superior protection for your e-bike's chain and chainring, while also help to prevent chain drops. Crafted from the finest materials, including sturdy CNC machined aluminium and reinforced nylon, our chainguards offer unparalleled durability and performance.

Our chainguards are the result of careful engineering, designed with the main goal of protecting your clothes and e-bike's chain and chainring from damage.

In addition to their superior protection, all of our chainguards are fully compatible with our e-bike spiders, making them the perfect addition to your e-bike. Whether you're an avid rider or just looking to protect your e-bike's chain and chainring, our chainguards are the ideal choice.



NEW**TJ 2**
REF. 410

Material
Reinforced Nylon
BCD
104
Finishes
Standard

CF3D BCD110
REF. 401

Material
Aluminium
BCD
110
Finishes
Standard

TJ
REF. 403

Material
Aluminium or
Reinforced Nylon
BCD
104
Finishes
Standard

ST CNC
REF. 404

Material
Aluminium
BCD
104
Finishes
Standard

TB GRAPHIC
REF. 405

Material
Aluminium
BCD
104
Finishes
Standard

WR GRAPHIC
REF. 407

Material
Aluminium
BCD
104
Finishes
Standard

SL
REF. 408

Material
Aluminium or
Reinforced Nylon
BCD
104
Finishes
Standard

DOUBLE
REF. 409

Material
Aluminium
BCD
104
Finishes
Standard

HANDLEBAR STEM



SPECIFICATIONS

Material

CNC Machined Aluminium

Handlebar diameter (mm)

35,1

REF.	LENGTH	ANGLE
913	35 mm	0°
914	45 mm	0°
915	50 mm	0°

Weight (g)*

170

Finishes

Standard (black painted)

Black painted and laser

*with 35mm length stem

Introducing the Miranda SM1 Stem: The Ultimate Solution for E-MTB Riders

Are you tired of struggling with ill-fitting stems on your E-MTB? The Miranda SM1 Stem was born out of the need to solve this very problem. Our teams of E-MTB competition riders were constantly facing difficulties finding a stem that could handle the unique demands of their sport. And so, the Miranda SM1 Stem was created.

Designed with the needs of E-MTB riders in mind, the Miranda SM1 Stem is the only stem on the market that takes into consideration the increased torques, pressures, and weight of an E-MTB. It provides a solid and direct feel when speed and responsiveness matter most on the tracks, giving you the confidence to tackle any trail.

Field-tested and used by E-MTB world champions, the Miranda SM1 Stem is a testament to its exceptional quality and performance. It largely exceeds the international ISO 4210 safety norm with a market-leading clamping load of up to 12Nm per bolt, ensuring that there will be no steerer tube slippage even under the most extreme riding conditions.

SPECIFICATIONS**Material**

Cold-forged Aluminium Alloy

Handlebar diameter (mm)

31,8

REF.	LENGTH	ANGLE
916	60 mm	0°
917	80 mm	0°
918	80 mm	6°

Weight (g)*

242

FinishesStandard (black painted)
Black painted and laser*with 80mm length stem**Introducing the Miranda M1 Stem**

Ride with confidence knowing that your bicycle stem is not only engineered for performance, but also made with the environment in mind. The Miranda Cold Forged Stem is made from recycled aluminium and produced using 100% green electricity, making it a sustainable choice for riders who care about their impact on the planet.

But sustainability is not the only advantage of the ecodesigned Miranda Cold Forged Stem. It is also the result of a cutting-edge cold forging process that is fully automatic, ensuring that the stem is of the highest quality and has consistent and superior material properties. This process results in a stem that is not only eco-friendly, but also incredibly durable and reliable, making it the ideal choice for riders who demand the best performance from their equipment.

Enjoy a smooth, stable, and responsive ride while knowing that you are doing your part to protect the environment.

EBIKE SOLUTIONS



DESIGNED for
BOSCH



BOSCH
BDU34YY/BDU38YY



BOSCH
BDU31YY



BOSCH
BDU4XX/BDU37YY



BOSCH
BDU3XX/BDU33YY



BOSCH
BDU2XX

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0 FB	146 mm	172 mm
Q:8 FB	162 mm	188 mm
Q:12	163 mm	189 mm
Q:16	171 mm	197 mm

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0	133 mm	159 mm
Q:8	149 mm	175 mm
Q:12	157 mm	183 mm
Q:16	165 mm	191 mm

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	149 mm	175 mm
Q:12	157 mm	183 mm
Q:16	165 mm	191 mm

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	159 mm	185 mm
Q:12	167 mm	193 mm
Q:16	175 mm	201 mm

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	149 mm	175 mm
Q:12	157 mm	183 mm
Q:16	165 mm	191 mm

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING



BOSCH BDU34YY/BDU38YY
SPIDERS

Spider G5

BOSCH
BDU38YY



CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

BOSCH
BDU38YY



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
57

Finishes*
Standard

To help you choose the best Belt Line see
page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES CDX (INSIDE CHAINRING)***	BELTLINE GATES CDX (OUTSIDE CHAINRING)***	CHAINGUARD AVAILABLE
100	--	50 mm	--	48 mm	✓
166	47,5 mm	54,5 mm	45,5 mm	52,5 mm	✓
101	49 mm	56 mm	47 mm	54 mm	✓
102	50,5 mm	57,5 mm	48,5 mm	55,5 mm	✓
179	52 mm	59 mm	50 mm	57 mm	✓
103	54 mm	61 mm	52 mm	59 mm	✓
104	55 mm	62 mm	53 mm	60 mm	✓
105	59,5 mm	66,5 mm	57,5 mm	64,5 mm	✓
106	61 mm	68 mm	59 mm	66 mm	✓
107	68,5 mm	75,5 mm	66,5 mm	73,5 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

*** Gates CDC Beltline has -1mm than CDX



Spider G5 5-arms

 BOSCH
BDU38YY


CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)



SPECIFICATIONS

BCD	110
Material	Aluminium
Weight (g)	74
Finishes*	Standard

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES CDX (INSIDE CHAINRING)***	BELTLINE GATES CDX (OUTSIDE CHAINRING)***	CHAINGUARD AVAILABLE
108	49 mm	56 mm	47 mm	54 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

*** Gates CDC Beltline has -1mm than CDX

Spider G5 DS

 BOSCH
BDU38YY


SPECIFICATIONS

BCD	104
Material	Aluminium
Weight (g)	104

Finishes*

Standard

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
109	48,5 mm	-----	46,5 mm	-----	-----
110	53,5 mm	60,5 mm	51,5 mm	58,5 mm	✓
111	56,5 mm	63,5 mm	54,5 mm	61,5 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

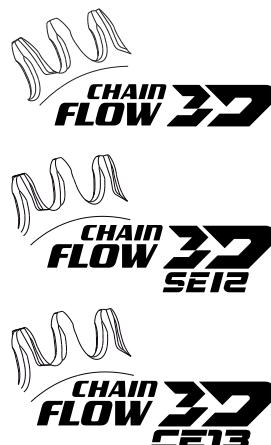
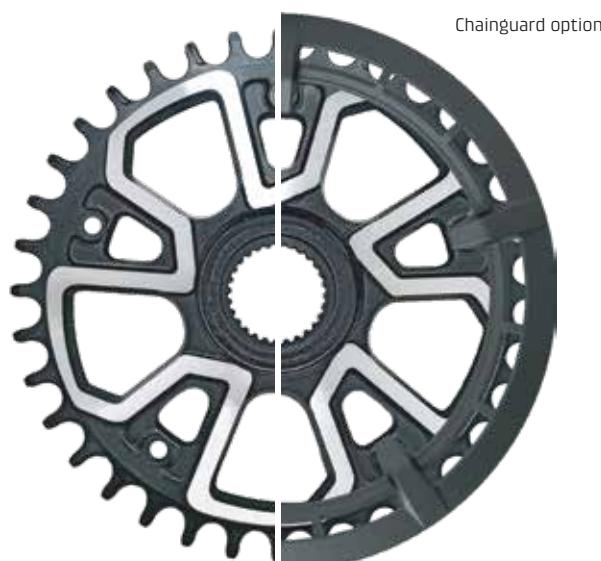
*** Gates CDC Beltline has -1mm than CDX

BOSCH BDU34YY
BDU38YY

DIRECT MOUNTS



Spiderless G5 D3



SPECIFICATIONS

Material
Aluminium

Teeth*
32T to 38T

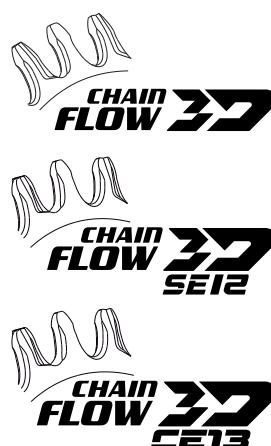
Weight (g)**
80

Finishes
Anodized
With CNC

REF.	CHAINLINE
216	52 mm
217	55 mm

* other sizes available by request
** with 32T Direct mount
In order to choose tooth type please check chain compatibility in page 124

Spiderless G5 D4



SPECIFICATIONS

Material
Aluminium

Teeth*
38T to 46T

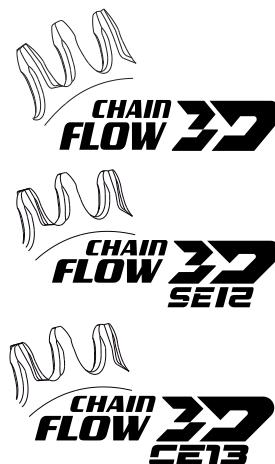
Weight (g)**
139

Finishes
Anodized

REF.	CHAINLINE
218	50 mm
219	52 mm

* other sizes available by request
** with 42T Direct mount
In order to choose tooth type please check chain compatibility in page 124

Spiderless G5 D1



SPECIFICATIONS

Material
Aluminium

Teeth*
32T to 46T

Weight (g)**
80

Finishes
Anodized

REF.	CHAINLINE
200	49,5 mm
201	54 mm
202	56 mm

* other sizes available by request
** with 32T Direct mount
In order to choose tooth type please check chain compatibility in page 124

Spiderless G5 D1 Steel



SPECIFICATIONS

Material
Steel

Teeth*
30T to 48T

Weight (g)**
234

Finishes
Standard

REF.	CHAINLINE
203	47,5 mm
204	49,5 mm
203	52 mm
204	54 mm
204	56 mm

* other sizes available by request
** with 32T Direct mount
In order to choose tooth type please check chain compatibility in page 124

Locknut G5



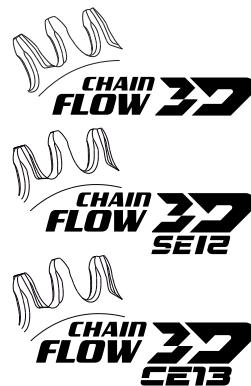
SPECIFICATIONS REF. 900

Material
Aluminium

Weight (g)
9

BOSCH BDU38YY
Spiderless G5 D2


Chainguard option



REF.	CHAINLINE
205	49,5 mm
206	53,5 mm
207	55,5 mm
208	58 mm

SPECIFICATIONS

 Material
 Aluminium

 Teeth*
 32T to 46T

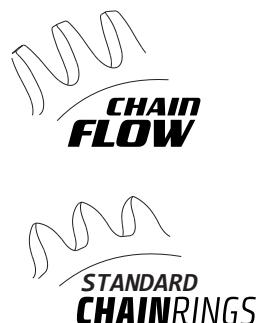
 Weight (g)
 77 to 156

 Finishes
 Anodized

 * other sizes available by request
 In order to choose tooth type please
 check chain compatibility in page 124

Spiderless G5 Ebike


Chainguard option



REF.	CHAINLINE
209	49 mm
210	52 mm
211	54 mm
212	56 mm

SPECIFICATIONS

 Material
 Steel

 Teeth*
 34T, 38T, 44T and
 50T

 Weight (g)
 77 to 156

 Finishes
 Standard

 * other sizes available by request
 In order to choose tooth type please
 check chain compatibility in page 124

Bashguard G5
NEW

SPECIFICATIONS
REF. 920

 Material
 Reinforced Nylon

 Weight (g)
 19

BOSCH BDU31YY and BDU4XX/BDU37YY SPIDERS

Spider G4

BOSCH
BDU31YY



CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

BOSCH
BDU31YY



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
57

Finishes*
Standard

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES CDX (INSIDE CHAINRING)***	BELTLINE GATES CDX (OUTSIDE CHAINRING)***	CHAINGUARD AVAILABLE
100	--	48 mm	--	46 mm	✓
166	45,5 mm	52,5 mm	43,5 mm	50,5 mm	✓
101	47,5 mm	54,5 mm	45,5 mm	52,5 mm	✓
102	49 mm	56 mm	47 mm	54 mm	✓
179	50 mm	57 mm	48 mm	55 mm	✓
103	52 mm	59 mm	50 mm	57 mm	✓
104	53 mm	60 mm	51 mm	58 mm	✓
105	57 mm	64 mm	55 mm	62 mm	✓
106	59 mm	66 mm	57 mm	64 mm	✓
107	66,5 mm	75 mm	66 mm	73 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

*** Gates CDC Beltline has -1mm than CDX



Spider G4 5-arms



SPECIFICATIONS

BCD
110

Material
Aluminium

Weight (g)
74

Finishes*
Standard

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
108	47,5 mm	54,5 mm	45,5 mm	52,5 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

Spider G4 DS



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
104

Finishes*
Standard

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
109	47,5 mm	-----	45,5 mm	-----	-----
110	52 mm	-----	50 mm	-----	✓
111	55 mm	-----	53 mm	-----	✓

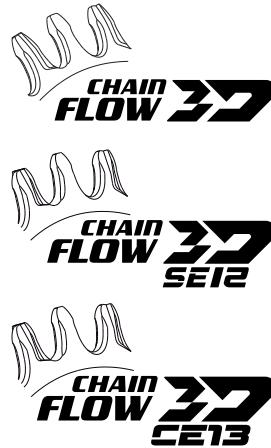
* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

Spiderless G4 D3



Chainguard option



REF.	CHAINLINE
216	50 mm
217	53 mm

SPECIFICATIONS

Material
Aluminium

Teeth*
32T to 38T

Weight (g)**
80

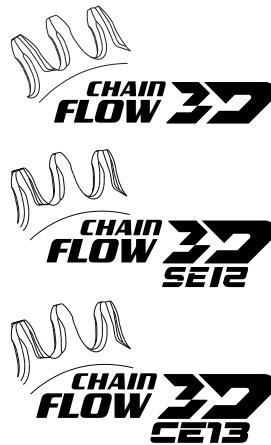
Finishes
Anodized
With CNC

* other sizes available by request
** with 32T Direct mount
In order to choose tooth type please check chain compatibility in page 124

Spiderless G4 D4



Chainguard option



REF.	CHAINLINE
218	48 mm
219	50 mm

SPECIFICATIONS

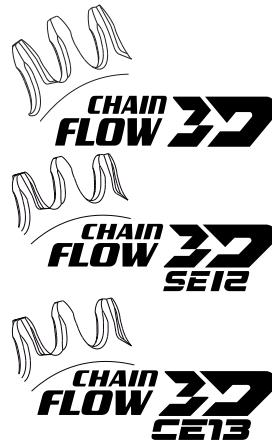
Material
Aluminium

Teeth*
38T to 46T

Weight (g)**
139

Finishes
Anodized

* other sizes available by request
** with 42T Direct mount
In order to choose tooth type please check chain compatibility in page 124

BOSCH BDU31YY and BDU4XX/BDU37YY
DIRECT MOUNTS
Spiderless G4 D1


REF.	CHAINLINE
200	47,5 mm
201	52 mm
202	54 mm

SPECIFICATIONS

 Material
 Aluminium

 Teeth*
 32T to 46T

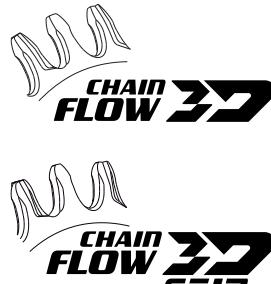
 Weight (g)**
 80

 Finishes
 Anodized

* other sizes available by request

** with 32T Direct mount

 In order to choose tooth type please
 check chain compatibility in page 124

Spiderless G4 D1 Steel
BOSCH
 BDU31YY —
BOSCH
 BDU4XX/BDU37YY


REF.	CHAINLINE
203	45,5 mm
204	47,5 mm
203	50 mm
204	52 mm
204	54 mm

SPECIFICATIONS

 Material
 Steel

 Teeth*
 30T to 48T

 Weight (g)**
 234

 Finishes
 Standard

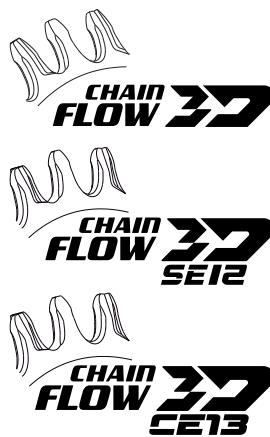
* other sizes available by request

** with 32T Direct mount

 In order to choose tooth type please
 check chain compatibility in page 124

Spiderless G4 D2

Chainguard option



REF.	CHAINLINE
205	47,5 mm
206	52 mm
207	54 mm
208	56,5 mm

SPECIFICATIONS

Material
Aluminium

Teeth*
32T to 46T

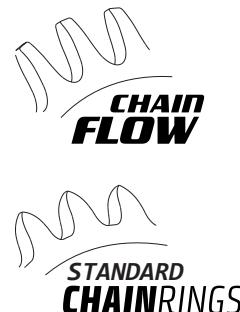
Weight (g)
77 to 156

Finishes
Anodized

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124

Spiderless G4 Ebike

Chainguard option



REF.	CHAINLINE
209	47,5 mm
210	50 mm
211	52 mm
212	54 mm

SPECIFICATIONS

Material
Steel

Teeth*
34T, 38T, 44T and
50T

Weight (g)
77 to 156

Finishes
Standard

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124

 **BOSCH** BDU31YY and BDU4XX/BDU37YY
OPTIONAL COMPONENTS

Chaininguide with chainguard

REF. 902

 **BOSCH**
BDU31YY **BOSCH**
BDU4XX/BDU37YY

SPECIFICATIONS

Material
Plastic

Teeth
32T and 38T

Chainlines
Standard (47,5 mm)
Boost (52mm)

Locknut G4

 **BOSCH**
BDU31YY **BOSCH**
BDU4XX/BDU37YY

SPECIFICATIONS
REF. 900

Material
Aluminium

Weight (g)
9

Bashguard G4

NEW

 **BOSCH**
BDU31YY **BOSCH**
BDU4XX/BDU37YY

SPECIFICATIONS
REF. 921

Material
Reinforced Nylon

Weight (g)
23


BOSCH GEN3
SPIDERS
Spider G3 D1

BOSCH
GEN3

SPECIFICATIONS
BCD
104

Material
Aluminium

Weight (g)
65

Finishes*
Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
112	47,5 mm	-----	45,5 mm	-----	-----
113	50,5 mm	-----	48,5 mm	-----	-----

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

Spider G3 D2

BOSCH
GEN3

SPECIFICATIONS
BCD
104

Material
Aluminium

Weight (g)
65

Finishes*
Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
114	47,5 mm	-----	45,5 mm	-----	-----
115	50,5 mm	-----	48,5 mm	-----	-----

Spider Orion GT G3



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
62

Finishes*
Standard

CHAINLINE OPTIONS AND CHAINRING SETS (CHAINRING MOUNTING OPTIONS)

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
116	45,5 mm	53,5 mm	43,5 mm	51,5 mm	✓
117	47,5 mm	55,5 mm	45,5 mm	53,5 mm	✓
118	50,5 mm	58,5 mm	48,5 mm	56,5 mm	✓
119	54 mm	62 mm	52 mm	60 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF30 / other chainlines available by request

Spider G3 ECO



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
65

Finishes*
Standard

CHAINLINE OPTIONS AND CHAINRING SETS (CHAINRING MOUNTING OPTIONS)

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
120	47,5 mm	55,5 mm	45,5 mm	53,5 mm	✓
121	48,5 mm	56,5 mm	46,5 mm	54,5 mm	✓
122	50,5 mm	58,5 mm	48,5 mm	56,5 mm	✓
123	54 mm	62 mm	52 mm	60 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF30 / other chainlines available by request

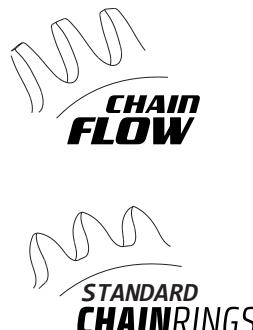
 **BOSCH** GEN3

DIRECT MOUNTS

Spiderless GZ Chainring G3

 **BOSCH**
GEN3

Chainguard option



REF.	CHAINLINE
213	47,5 mm
214	52 mm
215	56,5 mm

SPECIFICATIONS

Material
Steel

Teeth*
34T, 38T, 42T and
44T

Weight (g)
96 to 227

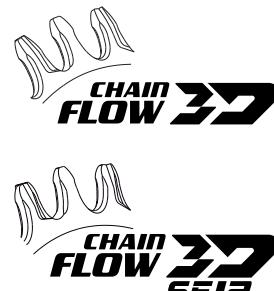
Finishes
Standard

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124

Spiderless G3 D1 Steel

 **BOSCH**
BDU31YY  **BOSCH**
BDU4XX/BDU37YY

Chainguard option



REF.	CHAINLINE
220	50 mm

SPECIFICATIONS

Material
Steel

Teeth*
38T

Weight (g)**
234

Finishes
Standard

* other sizes available by request
** with 32T Direct mount
In order to choose tooth type please
check chain compatibility in page 124

BOSCH GEN3

OPTIONAL COMPONENTS

Chinguide for chainguard G3

BOSCH
GEN3

SPECIFICATIONS

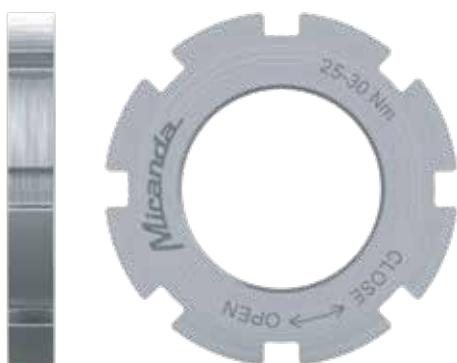
REF. 903

Material
Plastic

Teeth
32T to 44T

Chainlines
Standard (47,5 mm)

Locknut G3

BOSCH
GEN3

SPECIFICATIONS

REF. 904

Material
Aluminium

Weight (g)
9



www.mirandabikeparts.com


BOSCH GEN2
SPROCKETS

Chainrings G2

REF. 905



With Nut option
REF. 906



SPECIFICATIONS

Material
Steel

Teeth*
14T to 22T and
25T

Weight (g)
14 to 64

Finishes
Standard

Sprocket with E-Chainguard Nut

BOSCH
GEN2

SPECIFICATIONS

Material
Steel

Teeth
14T to 22T

Weight (g)
124 (for 8,65mm
offset)

Finishes
Standard



REF. (Steel)	OFFSET	INTERNAL PROTECTION
907	3 mm	-----
908	3 mm	✓
909	8,65 mm	✓
910	15 mm	✓
911	20 mm	✓

ICG

**SPECIFICATIONS****Material**
Aluminium**Compatibility**
All crank models**Weight (g)**
32 (without crank)**Finishes**
Anodized

REF. 912

 **BOSCH**
GEN2

Miranda ICG is a patented Integrated Chain Guard, crafted to shield from airborne debris and unexpected shocks. The ICG ensures a smoother, more reliable ride and is available in various diameters and an array of colors, including custom options.

EBIKE SOLUTIONS



DESIGNED for
SHIMANO



SHIMANO
EP8 / EP8-RS / EP6

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:16	150 mm	176 mm
Q:35	188 mm	214 mm



SHIMANO
E6100* / E7000 / E8000

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:16	158 mm	184 mm
Q:35	196 mm	222 mm

*new interface with deeper spline.



SHIMANO
E5000

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	159 mm	185 mm
Q:16	175 mm	201 mm
Q:35	213 mm	239 mm

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING



SHIMANO SPIDERS

Spider SH BCD104



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
65

Finishes
Standard

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

*To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES* (INSIDE CHAINRING)	BELTLINE GATES* (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
124	47,5 mm	53,5 mm	45,5 mm	51,5 mm	✓
125	51 mm	57 mm	49 mm	55 mm	✓
126	54 mm	60 mm	52 mm	58 mm	✓
127	57,5 mm	59,5 mm	68 mm	66 mm	✓

** chainline measured with chainwheel CF3D / other chainlines available by request



SHIMANO

DIRECT MOUNTS

CF3D SH



SPECIFICATIONS

Material
Aluminium

Teeth*
32T to 40T

Weight (g)
82 to 132

Finishes
Standard
Anodized

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124

REF.	CHAINLINE
221	47,5 mm
222	51 mm
223	72 mm
224	75 mm

CF3D SH Steel

NEW

Chinguard option



Micanda



SPECIFICATIONS

Material
Steel

Teeth*
32T to 40T

Weight (g)
264 to 299

Finishes
Standard

REF.	CHAINLINE
225	54 mm

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124



EBIKE SOLUTIONS



DESIGNED for
DJI



dji
AVINOX

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0	133 mm	159 mm
Q:8	149 mm	175 mm
Q:12	157 mm	183 mm
Q:16	165 mm	191 mm



Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING

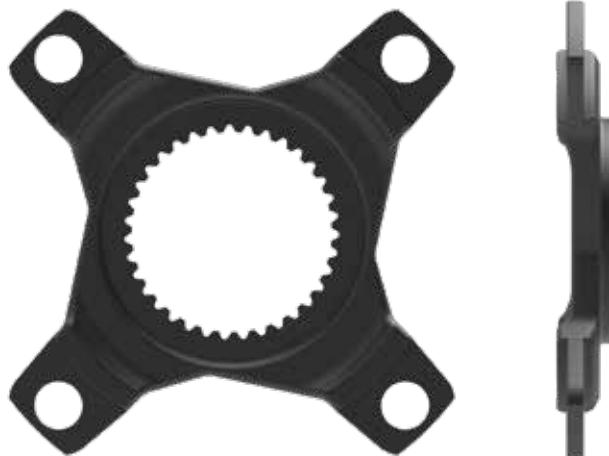


OUTSIDE CHAINRING



SPIDERS

Spider Avinox



SPECIFICATIONS

BCD

104

Material

Aluminium

Weight (g)

57

Finishes*

Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

To help you choose the best Belt Line
see page 123

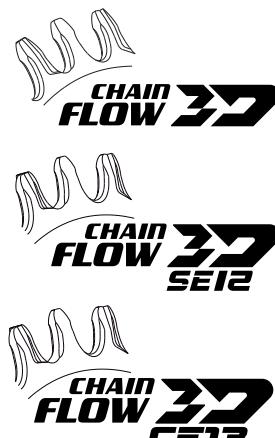
REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
168	55 mm	62 mm	53 mm	60 mm	✓
169	57 mm	64 mm	55 mm	62 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF30 / other chainlines available by request

DIRECT MOUNTS

Spiderless Avinox



SPECIFICATIONS

Material

Aluminium

Teeth*

32T to 46T

Weight (g)**

80

Finishes

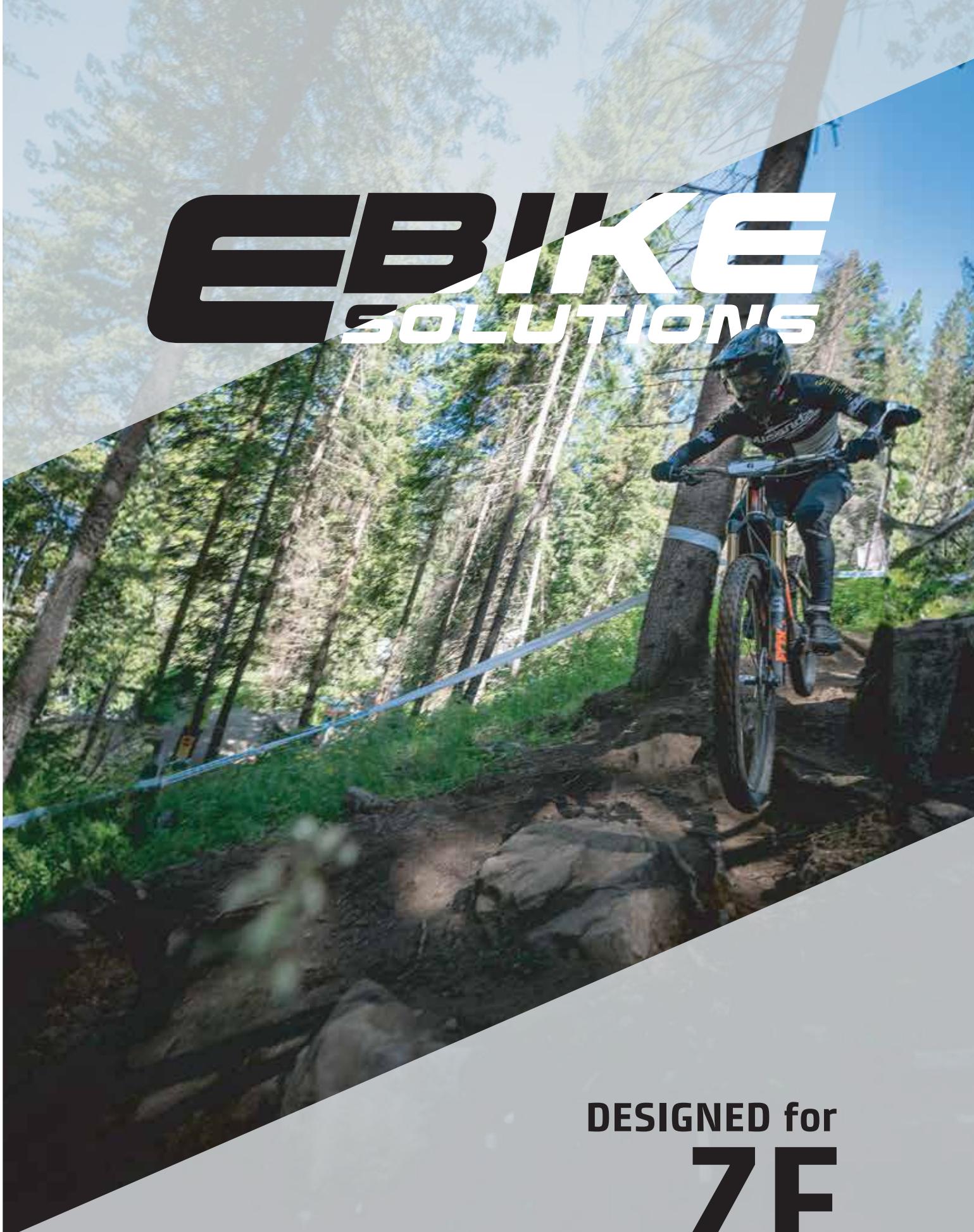
Anodized

REF.	CHAINLINE
230	55 mm

* other sizes available by request

** with 32T Direct mount

In order to choose tooth type please
check chain compatibility in page 124



EBIKE SOLUTIONS

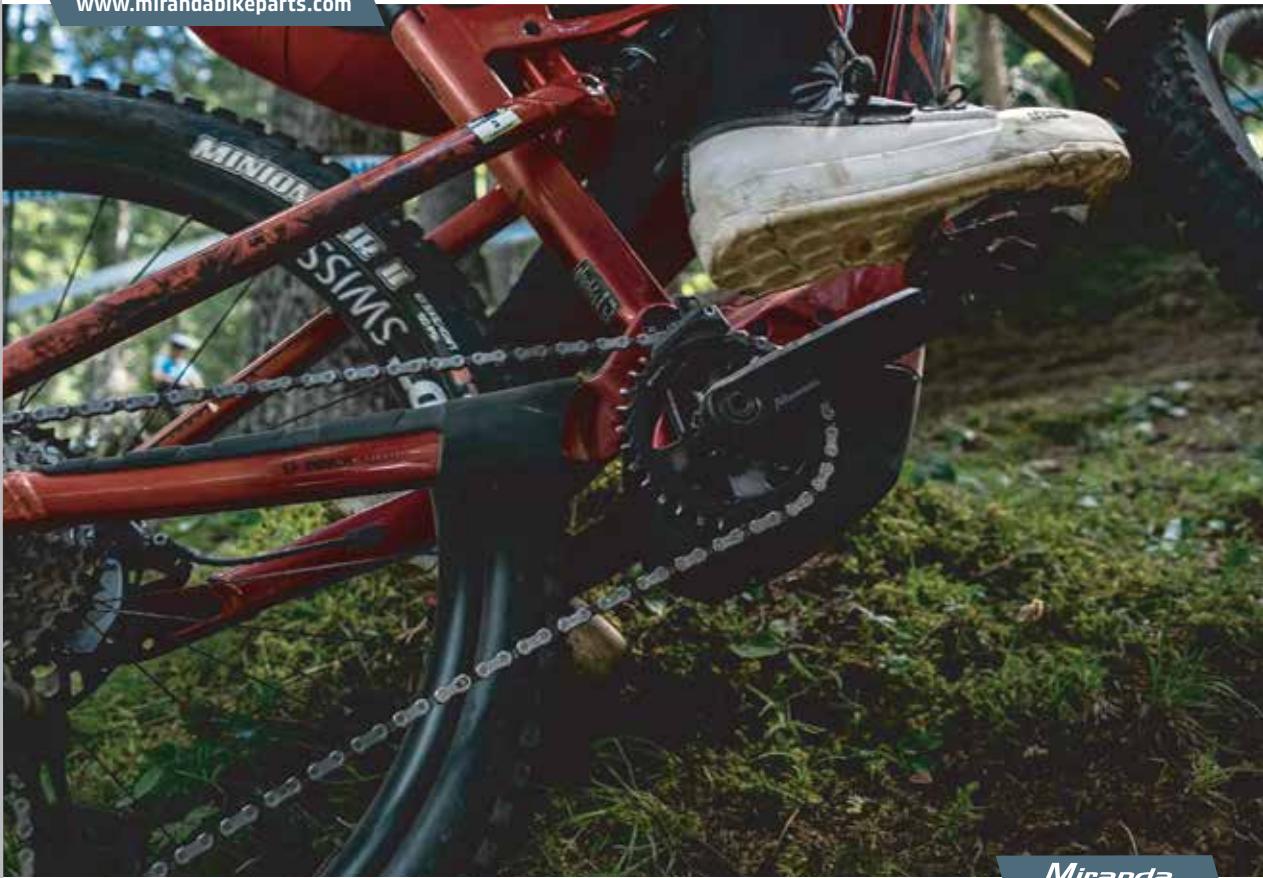
DESIGNED for
ZF



INTERFACE

AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0	143,5 mm	169,5 mm
Q:8	159,5 mm	185,5 mm
Q:12	167,5 mm	193,5 mm
Q:16	175,5 mm	201,5 mm

www.mirandabikeparts.com

Miranda

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING





SPIDERS

Spider ZF BCD104

NEW



SPECIFICATIONS

BCD

104

Material

Aluminium

Weight (g)

81

Finishes*

Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

To help you choose the best Belt Line
see page 123

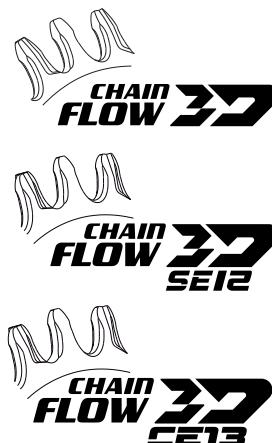
REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
170	---	54,5 mm	---	52,5 mm	✓
171	52 mm	59 mm	50 mm	57 mm	✓
172	55 mm	62 mm	53 mm	59,5 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

DIRECT MOUNTS

Spiderless ZF



SPECIFICATIONS

Material

Aluminium

Teeth*

32T to 46T

Weight (g)**

80

Finishes

Anodized

REF.	CHAINLINE
231	55 mm

* other sizes available by request

** with 32T Direct mount

In order to choose tooth type please
check chain compatibility in page 124

EBIKE SOLUTIONS



DESIGNED for
PENDIX



 **PENDIX**
gDrive

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	160 mm	186 mm
Q:12	168 mm	194 mm
Q:16	176 mm	202 mm



BOSCH

SHIMANO

DJI

ZF

PENDIX

MAXON

FAZUA

YAMAHA

BAFANG

BROSE

OLI

TQ

AUTORQ

PANASONIC

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

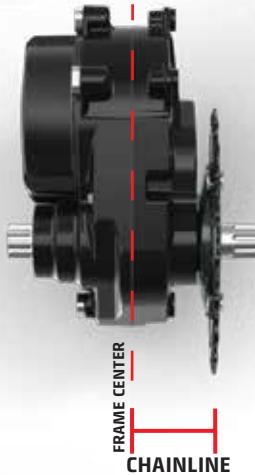
Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING





SPIDERS

Spider G4



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
57

Finishes*
Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES CDX (INSIDE CHAINRING)***	BELTLINE GATES CDX (OUTSIDE CHAINRING)***	CHAINGUARD AVAILABLE
100	--	48 mm	--	46 mm	✓
166	46 mm	53 mm	44 mm	51 mm	✓
101	47 mm	54 mm	45 mm	52 mm	✓
102	49 mm	56 mm	47 mm	54 mm	✓
179	50 mm	57 mm	48 mm	55 mm	✓
103	52 mm	59 mm	50 mm	57 mm	✓
104	53,5 mm	60,5 mm	51,5 mm	58,5 mm	✓
105	57,5 mm	64,5 mm	55,5 mm	62,5 mm	✓
106	59 mm	66 mm	57 mm	64 mm	✓
107	67 mm	74 mm	65 mm	72 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

www.mirandabikeparts.com



Miranda

Spider G4 5-arms



CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)



SPECIFICATIONS

BCD
110

Material
Aluminium

Weight (g)
74

Finishes*
Standard

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
108	47,5 mm	54,5 mm	45,5 mm	52,5 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

Spider G4 DS



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
104

Finishes*
Standard

To help you choose the best Belt Line
see page 123

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
109	47,5 mm	-----	45,5 mm	-----	-----
110	52 mm	-----	50 mm	-----	✓
111	55 mm	-----	53 mm	-----	✓

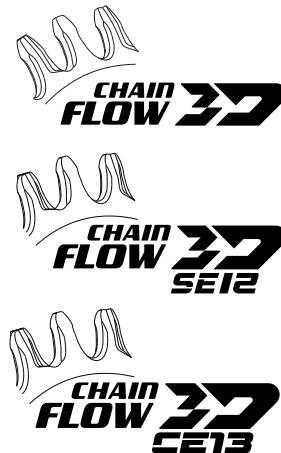
* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request



DIRECT MOUNTS

Spiderless G4 D1



SPECIFICATIONS

Material
Aluminium

Teeth*
32T to 46T

Weight (g)**
80

Finishes
Anodized

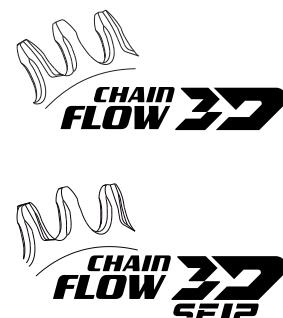
REF.	CHAINLINE
200	47,5 mm
201	52 mm
202	54 mm

* other sizes available by request
** with 32T Direct mount
In order to choose tooth type please check chain compatibility in page 124

Spiderless G4 D1 Steel



Chinguard option
NEW



SPECIFICATIONS

Material
Steel

Teeth*
30T to 48T

Weight (g)**
234

Finishes
Standard

REF.	CHAINLINE
231	45 mm
232	50 mm
203	52 mm
204	54 mm

* other sizes available by request
** with 32T Direct mount
In order to choose tooth type please check chain compatibility in page 124

Spiderless G4 D2



SPECIFICATIONS

Material
Aluminium

Teeth*
32T to 46T

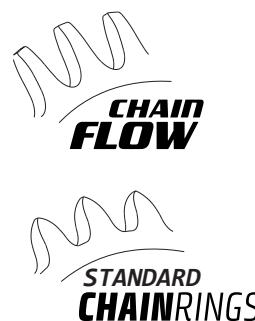
Weight (g)
77 to 156

Finishes
Anodized

REF.	CHAINLINE
205	47,5 mm
206	52 mm
207	54 mm
208	56,5 mm

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124

Spiderless G4 Ebike



SPECIFICATIONS

Material
Steel

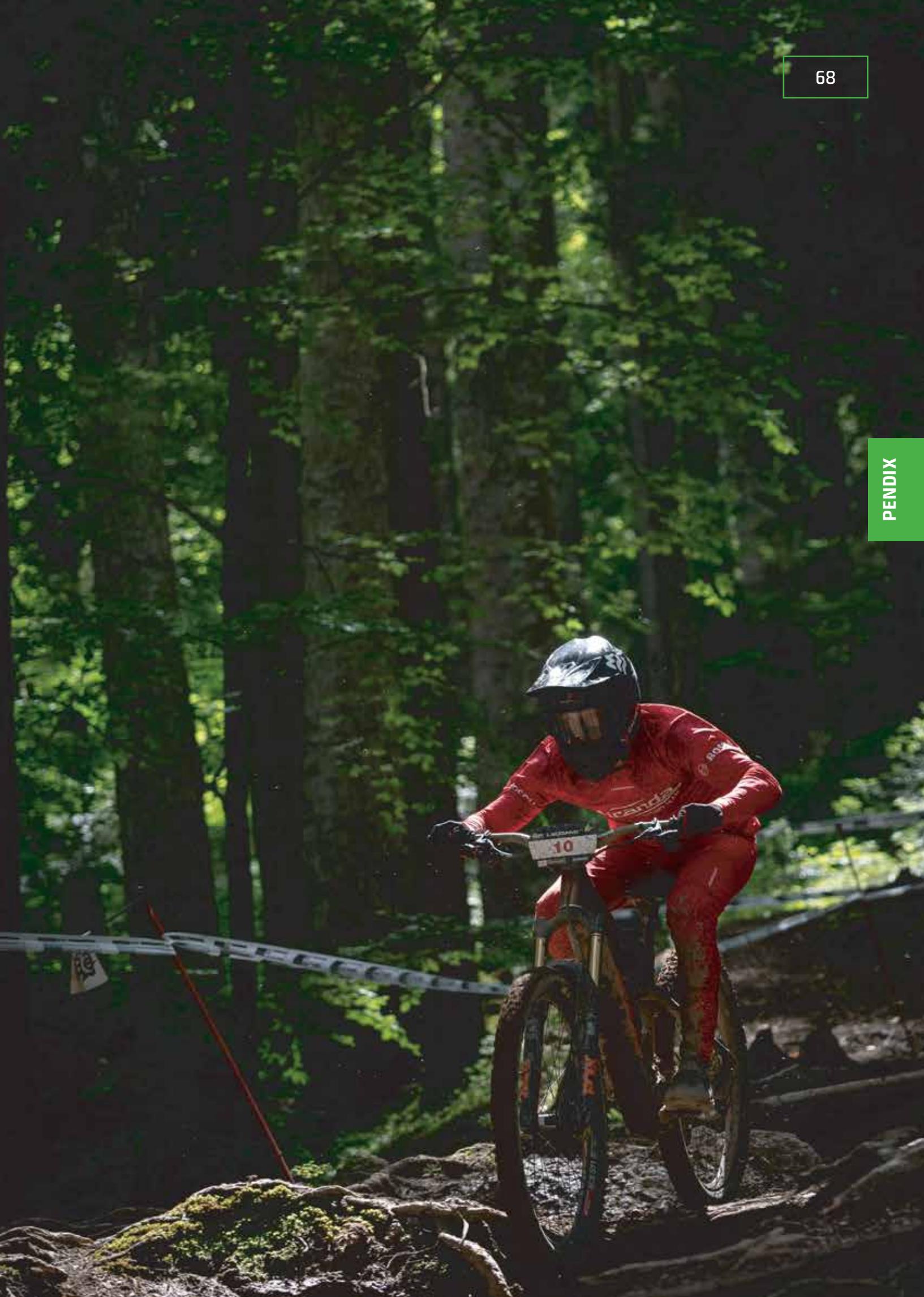
Teeth*
34T, 38T, 44T and
50T

Weight (g)
77 to 156

Finishes
Standard

REF.	CHAINLINE
209	47,5 mm
210	50 mm
211	52 mm
212	54 mm

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124



EBIKE SOLUTIONS



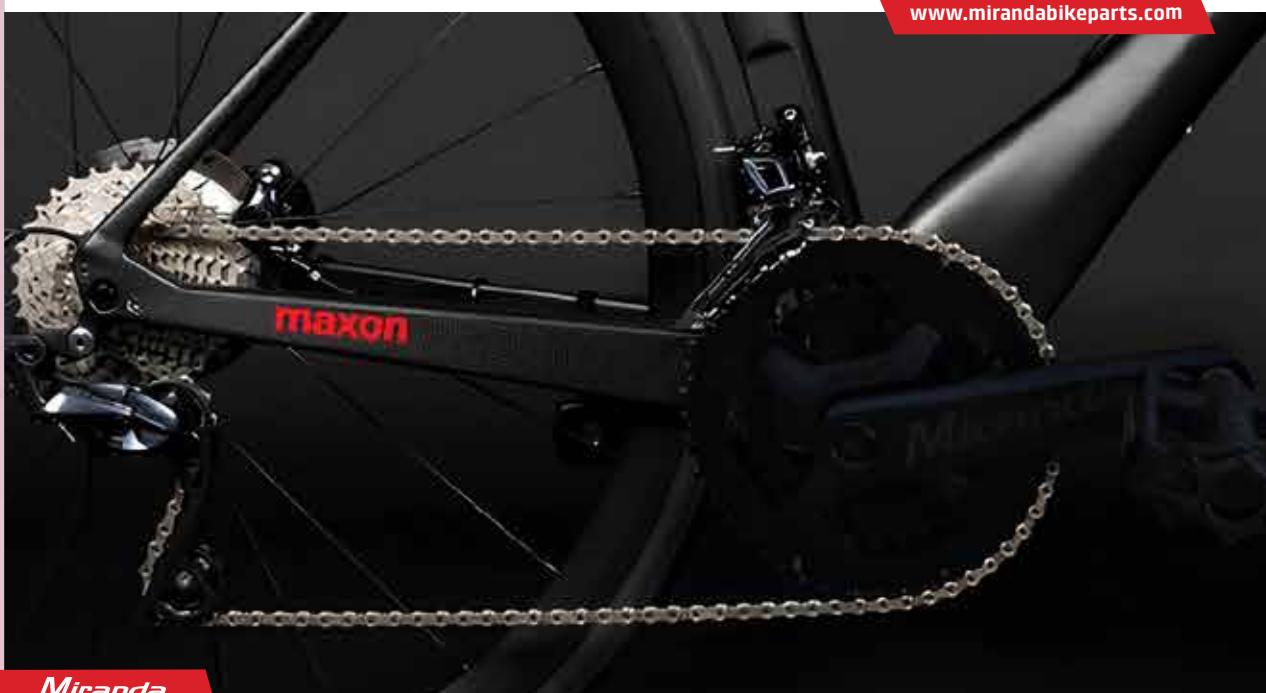
DESIGNED for
MAXON



maxon
BIKEDRIVE AIR

INTERFACE**AVAILABLE CRANK Q-FACTORS**

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0	125 mm	151 mm
Q:8	141 mm	167 mm
Q:12	149 mm	175 mm
Q:16	157 mm	183 mm



Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING



maxon BIKE DRIVE AIR

SPIDERS

Spider FZR60 BCD104

maxon
BIKE DRIVE AIR


CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)


SPECIFICATIONS
BCD
104

Material
Aluminium

Weight (g)
64

Finishes*
Standard

To help you choose the best Belt Line
see page 123

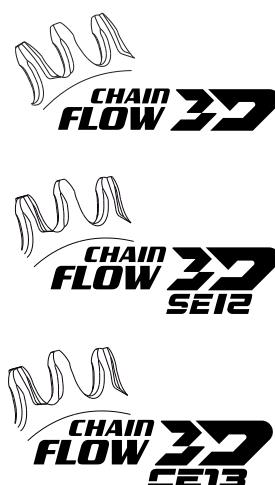
REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
123	47,5 mm	55 mm	45,5 mm	53 mm	✓
124	50,5 mm	58 mm	48,5 mm	56 mm	✓
125	52,5 mm	60 mm	50,5 mm	58 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

DIRECT MOUNTS

Spiderless FZR60

maxon
BIKE DRIVE AIR

SPECIFICATIONS
Material
Aluminium

Teeth*
34T

Weight (g)
120

Finishes
Standard

REF.	CHAINLINE
225	55 mm

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124

EBIKE SOLUTIONS



Micanda

DESIGNED for
FAZUA



INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0	125 mm	151 mm
Q:8	141 mm	167 mm
Q:12	149 mm	175 mm
Q:16	157 mm	183 mm



INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	147 mm	173 mm
Q:12	155 mm	181 mm
Q:16	163 mm	189 mm

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Miranda

BOSCH

SHIMANO

DJI

ZF

PENDIX

MAXON

FAZUA

YAMAHA

BAFANG

BROSE

PANASONIC

OLI

TQ

AUTORQ

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

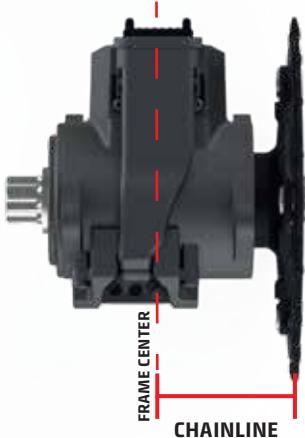
Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING



SPIDERS

Spider Fazua 60 BCD104



CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
64

Finishes*
Standard

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
123	47,5 mm	55 mm	45,5 mm	53 mm	✓
124	50,5 mm	58 mm	48,5 mm	56 mm	✓
125	52,5 mm	60 mm	50,5 mm	58 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

Spider Fazua 60 BCD110



SPECIFICATIONS

BCD
110

Material
Aluminium

Weight (g)
104

Finishes*
Standard

To help you choose the best Belt Line
see page 123

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
126	44 mm	50,5 mm	42 mm	48,5 mm	✓
126		47,5 mm***			

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

*** chainline for double chainring mount



DIRECT MOUNTS

Spiderless FZ Ride 60



SPECIFICATIONS

Material
Aluminium

Teeth*
34T

Weight (g)
120

Finishes
Standard

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124

REF.	CHAINLINE
225	55 mm



SPIDERS

Spider Fazua 50 BCD104



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
71

Finishes*
Standard

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
127	50 mm	57,5 mm	48 mm	55,5 mm	✓
128	53 mm	60,5 mm	51 mm	58,5 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

Spider Fazua 50 BCD110



SPECIFICATIONS

BCD
110

Material
Aluminium

Weight (g)
102

Finishes*
Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
129	45 mm	52 mm	43 mm	50 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

FAZUA RIDE50 DIRECT MOUNTS

Spiderless FZ Super Light



SPECIFICATIONS

Material
Aluminium

Teeth*
39/53T

Weight (g)
175

Finishes
Standard

REF.	CHAINLINE
226	50 mm

* other sizes available by request



E BIKE
SOLUTIONS

DESIGNED for
YAMAHA



YAMAHA
PW-X3/PW-S2

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	140 mm	166 mm
Q:12	148 mm	174 mm
Q:16	156 mm	182 mm



YAMAHA
PW-X/PW-X2

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	150 mm	176 mm
Q:12	158 mm	184 mm
Q:16	166 mm	192 mm



YAMAHA
PW-ST/PW-CE

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	179 mm	205 mm
Q:12	187 mm	213 mm
Q:16	195 mm	221 mm

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING




YAMAHA PW-X3/PW-S2
SPIDERS
Spider YH PWX3

YAMAHA
 PW-X3/PW-S2

SPECIFICATIONS
BCD
 104

Material
 Aluminium

Weight (g)
 66

Finishes*
 Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

 To help you choose the best Belt Line
 see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
158	47,5 mm	55 mm	45,5 mm	53 mm	✓
133	55 mm	62 mm	53 mm	60 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request


YAMAHA PW-X3/PW-S2
DIRECT MOUNTS
YHX3 Chainring

YAMAHA
 PW-X3/PW-S2


Chainguard option


SPECIFICATIONS
Material
 Steel

Teeth*
 38T

Weight (g)
 315

Finishes
 Standard

REF.	CHAINLINE
227	55 mm

 * other sizes available by request
 In order to choose tooth type please
 check chain compatibility in page 124


YAMAHA PW-X2/PW-X
SPIDERS
Spider YH PWX

SPECIFICATIONS
BCD
104

Material
Aluminium

Weight (g)
81

Finishes*
Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
131	---	66 mm	---	64 mm	✓
132	---	73 mm	---	71 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request


YAMAHA PW-ST/PW-CE
SPIDERS
Spider YH FLY

SPECIFICATIONS
BCD
104

Material
Aluminium

Weight (g)
81

Finishes*
Standard

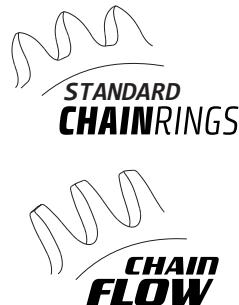
**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
130	-----	45.5 mm	-----	43.5 mm	-----
176	-----	47.5 mm	-----	45.5 mm	-----

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request


YAMAHA PW-ST/PW-CE
DIRECT MOUNTS
YH Chainring E-bike


REF.	CHAINLINE
228	46,5 mm
229	52 mm

SPECIFICATIONS
Material
 Steel

Teeth*
 34T to 44T

Weight (g)**
 232

Finishes
 Standard

* other sizes available by request

** with 44T Direct mount

 In order to choose tooth type please
 check chain compatibility in page 124

Spider YH PW

SPECIFICATIONS
BCD
 104

Material
 Aluminium

Weight (g)
 68

Finishes*
 Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

 To help you choose the best Belt Line
 see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
157	44 mm	51 mm	42 mm	49 mm	✓
158	54 mm	61 mm	52 mm	59 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

EBIKE SOLUTIONS



Miranda

DESIGNED for
BAFANG



BAFANG

M620

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	162 mm	188 mm
Q:12	170 mm	196 mm
Q:16	178 mm	204 mm



BAFANG

M420/M500/M600
M800

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:16	183 mm	209 mm



BAFANG

M200/M215/M300
M315/M400/M615

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	173 mm	199 mm
Q:12	181 mm	207 mm
Q:16	189 mm	215 mm



NEW

BAFANG

TORQUE SENSOR

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0	154 mm	180 mm
Q:8	170 mm	196 mm
Q:12	178 mm	204 mm
Q:16	186 mm	212 mm

* DBC and Q-Factor measured with BAFANG SR PA211 with BB width 68mm

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING



BAFANG M420/M500/M600/M620

SPIDERS

Spider Bafang BCD130

BAFANG
M420/M500/M600/M620**SPECIFICATIONS****BCD**
130**Material**
Aluminium**Weight (g)**
95**Finishes***
Standard

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
134	48,5 mm	55 mm	46,5 mm	53 mm	✓
135	63,5 mm	70 mm	61,5 mm	68 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

www.mirandabikeparts.com



BAFANG

Miranda

BAFANG M200

SPIDERS

Spider Bafang BCD104



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
73

Finishes*
Standard

To help you choose the best Belt Line
see page 123

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
136	50 mm	57 mm	48 mm	55 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF30 / other chainlines available by request

BAFANG TORQUE SENSOR

SPIDERS

Spider Bafang TQS

BAFANG
TORQUE SENSOR

SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
61

Finishes*
Standard

To help you choose the best Belt Line
see page 123

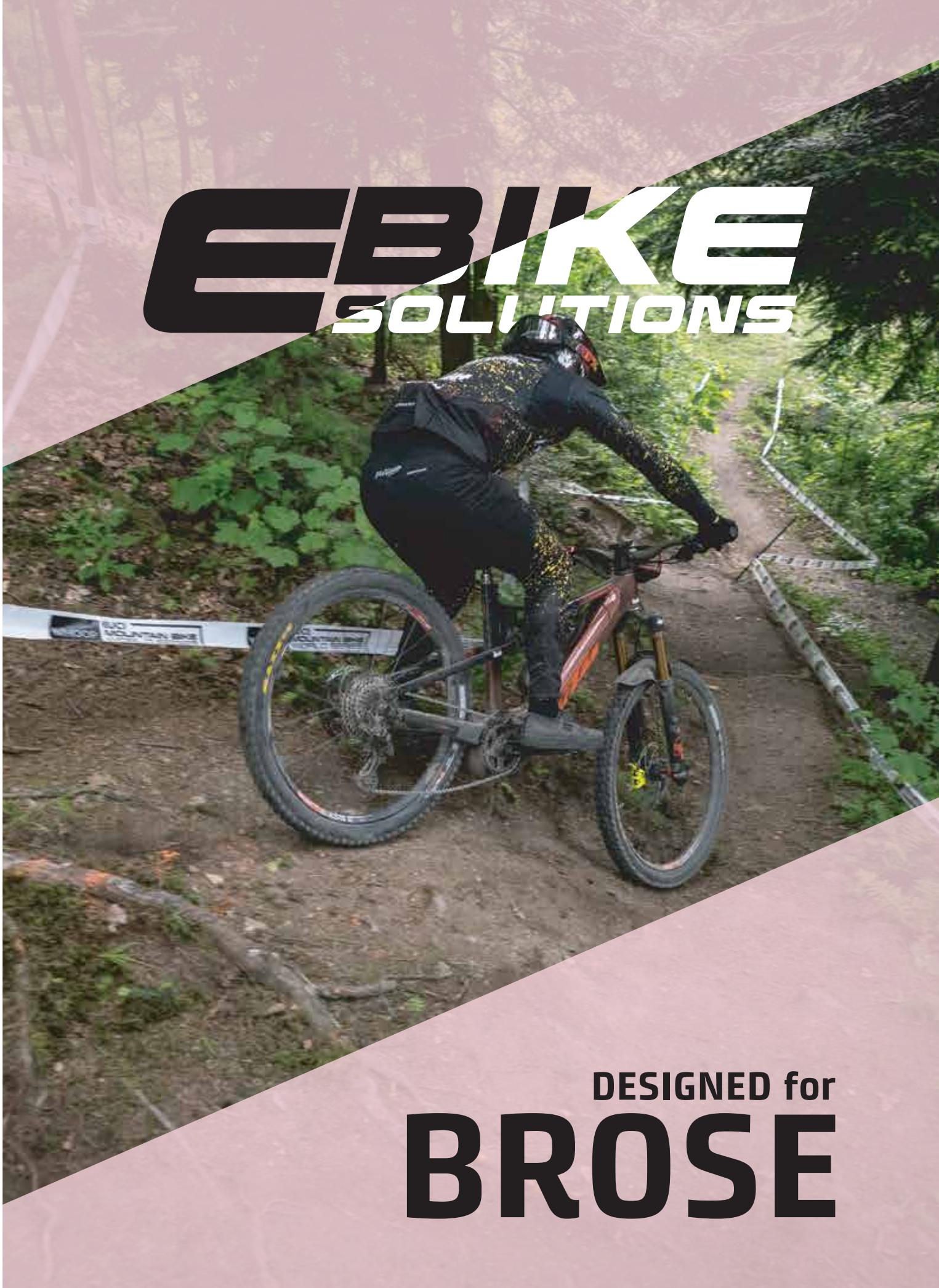
CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
137	52 mm	59,5 mm	50 mm	57,5 mm	✓
167	54,5 mm	61,5 mm	52,5 mm	59,5 mm	✓

* other colors and finishes available by request

**chainline measured with BAFANG SR PA211 with BB width 68mm and chainwheel CF30 / other chainlines available by request





EBIKE SOLUTIONS

DESIGNED for
BROSE



NEW

INTERFACE



INTERFACE



INTERFACE



Symetric Assembly - Brose Drive³
AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	149 mm	175 mm
Q:12	157 mm	183 mm
Q:16	165 mm	191 mm

Symetric Assembly - Brose Mag
AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	162 mm	188 mm
Q:12	170 mm	196 mm
Q:16	178 mm	204 mm

Assymmetric Assembly - Brose AI
AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:4 / Q:8	158 mm	184 mm
Q:8 / Q:16	170 mm	196 mm

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING



brose SPIDERS

Spider BR3



CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
57

Finishes*
Standard

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
166	55 mm	60,5 mm	53 mm	58,5 mm	✓

Spider Brose BCD104/64



SPECIFICATIONS

BCD
104/64

Material
Aluminium

Weight (g)
117

Finishes*
Standard

To help you choose the best Belt Line
see page 123

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

SYMMETRIC ASSEMBLY - BROSE MAG					
REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
138	51,5 mm	60 mm	49,5 mm	58 mm	✓
139	55 mm	63,5 mm	53 mm	61,5 mm	✓
140	58 mm	66,5 mm	56 mm	64,5 mm	✓

ASYMMETRIC ASSEMBLY - BROSE AL					
REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
138	47,5 mm	56 mm	45,5 mm	54 mm	✓
139	51 mm	59,5 mm	49 mm	57,5 mm	✓
140	54 mm	62,5 mm	52 mm	60,5 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

Spider Brose FATBIKE BCD104

brose
MAG / AL

SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
104

Finishes*
Standard

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

To help you choose the best Belt Line
see page 123

SYMMETRIC ASSEMBLY- BROSE MAG

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
141	71 mm	78,5 mm	69 mm	76,5 mm	✓

ASYMMETRIC ASSEMBLY - BROSE AL

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
141	67 mm	74,5 mm	65 mm	72,5 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

Spider Brose BCD64

brose
MAG / AL

SPECIFICATIONS

BCD
64

Material
Aluminium

Weight (g)
37

Finishes*
Standard

CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)

To help you choose the best Belt Line
see page 123

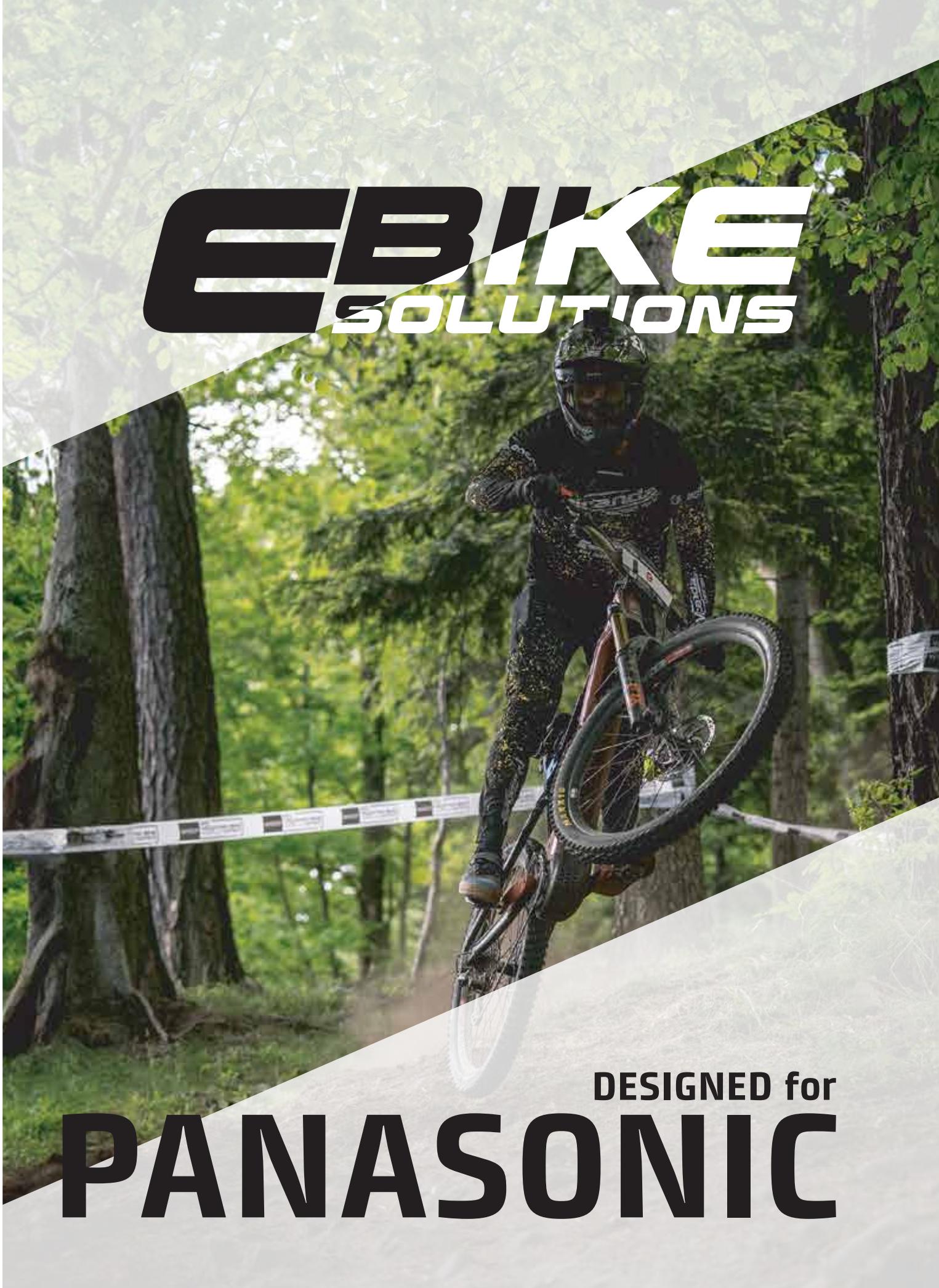
SYMMETRIC ASSEMBLY- BROSE MAG

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
177	48 mm	55,5 mm	46 mm	53,5 mm	✓

ASYMMETRIC ASSEMBLY - BROSE AL

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
177	44 mm	51,5 mm	42 mm	49,5 mm	✓





EBIKE
SOLUTIONS

DESIGNED for
PANASONIC



Panasonic
GX ULTIMATE

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	142 mm	168 mm
Q:12	150 mm	176 mm
Q:16	158 mm	184 mm



Panasonic
GX POWER
GX POWER PLUS

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	172 mm	198 mm
Q:12	180 mm	206 mm
Q:16	188 mm	214 mm



Micanda

AUTORO

TQ | OLI

BAFANG

PANASONIC

YAMAHA

FAZUA

PENDIX

BOSCH

SHIMANO

DJI

ZF

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING



Panasonic GX ULTIMATE SPIDERS Spider Panasonic

Panasonic
GX ULTIMATE

SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
76

Finishes*
Standard

CHAINLINE OPTIONS AND CHAINRING SETS (CHAINRING MOUNTING OPTIONS)

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
142	47 mm	54 mm	45 mm	52 mm	✓
143	53 mm	60 mm	51 mm	58 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

www.mirandabikeparts.com



Miranda

PANASONIC

EBIKE SOLUTIONS



DESIGNED for
OLI



 **OLI**
EDGE

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	160 mm	186 mm
Q:12	168 mm	194 mm
Q:16	176 mm	202 mm



 **OLI**
SPORT
MOVE PLUS

INTERFACE



AVAILABLE CRANK Q-FACTORS

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:8	166 mm	192 mm
Q:12	174 mm	200 mm
Q:16	182 mm	208 mm



Miranda

BOSCH

SHIMANO

DJI

ZF

PENDIX

MAXON

FAZUA

YAMAHA

BAFANG

BROSE

PANASONIC

OLI

TQ

AUTORO

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING



SPIDERS

Spider G4



CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
57

Finishes*
Standard

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES CDX (INSIDE CHAINRING)***	BELTLINE GATES CDX (OUTSIDE CHAINRING)***	CHAINGUARD AVAILABLE
100	--	48 mm	--	46 mm	✓
166	46 mm	53 mm	44 mm	51 mm	✓
101	47 mm	54 mm	45 mm	52 mm	✓
102	49 mm	56 mm	47 mm	54 mm	✓
179	50 mm	57 mm	48 mm	55 mm	✓
103	52 mm	59 mm	50 mm	57 mm	✓
104	53,5 mm	60,5 mm	51,5 mm	58,5 mm	✓
105	57,5 mm	64,5 mm	55,5 mm	62,5 mm	✓
106	59 mm	66 mm	57 mm	64 mm	✓
107	67 mm	74 mm	65 mm	72 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

www.mirandabikeparts.com



Spider G4 5-arms



CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)



SPECIFICATIONS

BCD

110

Material

Aluminium

Weight (g)

74

Finishes*

Standard

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
108	47,5 mm	54,5 mm	45,5 mm	52,5 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

Spider G4 DS



CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)



SPECIFICATIONS

BCD

104

Material

Aluminium

Weight (g)

104

Finishes*

Standard

To help you choose the best Belt Line
see page 123

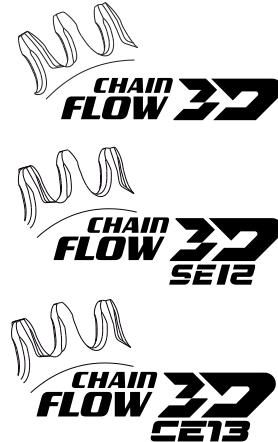
REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
109	47,5 mm	-----	45,5 mm	-----	-----
110	52 mm	-----	50 mm	-----	✓
111	55 mm	-----	53 mm	-----	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

DIRECT MOUNTS

Spiderless G4 D1



SPECIFICATIONS

Material
Aluminium

Teeth*
32T to 46T

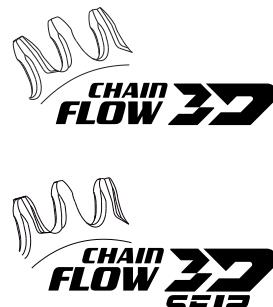
Weight (g)**
80

Finishes
Anodized

REF.	CHAINLINE
200	47,5 mm
201	52 mm
202	54 mm

* other sizes available by request
** with 32T Direct mount
In order to choose tooth type please check chain compatibility in page 124

Spiderless G4 D1 Steel



SPECIFICATIONS

Material
Steel

Teeth*
30T to 48T

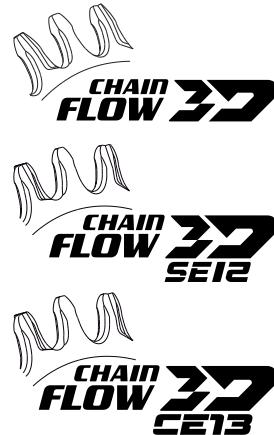
Weight (g)**
234

Finishes
Standard

REF.	CHAINLINE
231	45 mm
232	50 mm
203	52 mm
204	54 mm

* other sizes available by request
** with 32T Direct mount
In order to choose tooth type please check chain compatibility in page 124

Spiderless G4 D2



SPECIFICATIONS

Material
Aluminium

Teeth*
32T to 46T

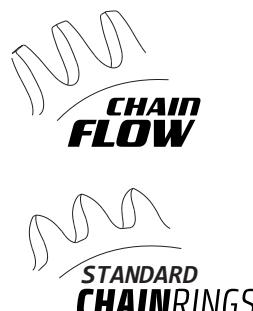
Weight (g)
77 to 156

Finishes
Anodized

REF.	CHAINLINE
205	47,5 mm
206	52 mm
207	54 mm
208	56,5 mm

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124

Spiderless G4 Ebike



SPECIFICATIONS

Material
Steel

Teeth*
34T, 38T, 44T and
50T

Weight (g)
77 to 156

Finishes
Standard

REF.	CHAINLINE
209	47,5 mm
210	50 mm
211	52 mm
212	54 mm

* other sizes available by request
In order to choose tooth type please
check chain compatibility in page 124



EBIKE SOLUTIONS



Micanda

DESIGNED for
TQ



HPR50

NEW**INTERFACE****AVAILABLE CRANK Q-FACTORS**

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0	131 mm	157 mm
Q:8	147 mm	173 mm
Q:12	155 mm	181 mm
Q:16	163 mm	189 mm



BOSCH

SHIMANO

DJI

ZF

PENDIX

MAXON

FAZUA

YAMAHA

BAFANG

BROSE

PANASONIC

OLI

TQ

AUTORO

Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING





HPR50

SPIDERS

Spider TQ

NEW



SPECIFICATIONS

BCD

104

Material

Aluminium

Weight (g)

64

Finishes*

Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
152	47,5 mm	54,5 mm	45,5 mm	52,5 mm	✓
153	52 mm	59 mm	50 mm	57 mm	✓
154	55 mm	62 mm	53 mm	59,5 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request



HPR50

DIRECT MOUNTS

Spiderless DOUBLE

NEW



REF.	CHAINLINE
226	51,5 mm

SPECIFICATIONS

Material

Aluminium

Teeth*

32/48T and 34/50T

Weight (g)**

213

Finishes

Anodized

EBIKE SOLUTIONS



DESIGNED for
AUTORQ

NEW

INTERFACE

AVAILABLE CRANK Q-FACTORS



 **AUTORQ**
ISIS SENSOR

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0	119 mm	145 mm
Q:8	135 mm	161 mm
Q:12	143 mm	169 mm
Q:16	151 mm	177 mm

NEW

INTERFACE

AVAILABLE CRANK Q-FACTORS*



 **AUTORQ**
DUAL-SIDED
TORQUE SENSOR

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0	180 mm	206 mm
Q:8	196 mm	222 mm
Q:12	204 mm	230 mm
Q:16	212 mm	238 mm

* DBC and Q-Factor measured with AUTORQ Dual-Sided Torque Sensor with BB width 73mm



Q-FACTOR and DBC



When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING





SPIDERS

Spider Aut ODP

NEW



CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)



ISIS TORQUE SENSOR

SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
62

Finishes*
Standard

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
180	45,5 mm	52,5 mm	43,5 mm	50,5 mm	✓
148	51 mm	58 mm	49 mm	56 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request



SPIDERS

Spider Aut Orion BCD104

NEW



CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)



**DUAL-SIDED
TORQUE SENSOR**

SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
58

Finishes*
Standard

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
150	47,5 mm	55 mm	45,5 mm	53 mm	✓

* other colors and finishes available by request

** chainline measured with AUTORQ Dual-Sided Torque Sensor with BB width 73mm and chainwheel CF3D / other chainlines available by request



EBIKE SOLUTIONS

DESIGNED for
MAHLE

**NEW****INTERFACE****AVAILABLE CRANK Q-FACTORS**

CRANK Q-FACTORS	DBC	Q-FACTOR
Q:0	138 mm	166 mm
Q:2	142 mm	168 mm
Q:12	162 mm	188 mm
Q:16	170 mm	196 mm

*Miranda*

BOSCH

SHIMANO

DJI

PENDIX

MAXON

FAZUA

YAMAHA

BAFANG

BROSE

OLI

TQ

AUTORO

PANASONIC

Q-FACTOR and DBC

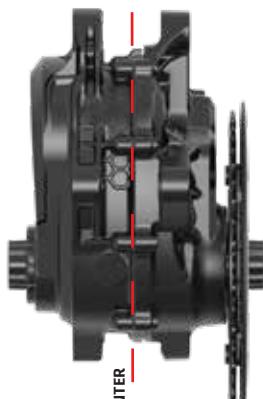


When choosing the components of your E-Bike, be sure to check the Q-Factor and the DBC to prevent the cranks from touching the frame, and to verify that there is no misalignment of the cranks with the center of the bike.

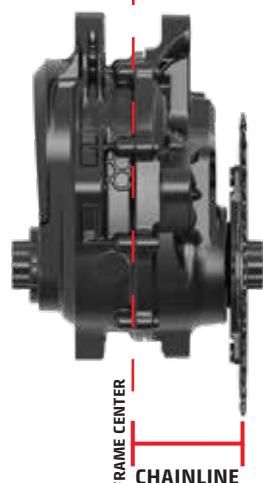
Also, when opting for a spider solution, you can mount your chainring inside or outside the spider to maximize chain compatibility, check which solution matches your needs.

Assembly options

INSIDE CHAINRING



OUTSIDE CHAINRING



MAHLE M40 SPIDERS Spider Mahle



SPECIFICATIONS

BCD
104

Material
Aluminium

Weight (g)
76

Finishes*
Standard

**CHAINLINE OPTIONS AND CHAINRING SETS
(CHAINRING MOUNTING OPTIONS)**

To help you choose the best Belt Line
see page 123

REF.	CHAINLINE** (INSIDE CHAINRING)	CHAINLINE** (OUTSIDE CHAINRING)	BELTLINE GATES (INSIDE CHAINRING)	BELTLINE GATES (OUTSIDE CHAINRING)	CHAINGUARD AVAILABLE
178	47 mm	54 mm	45 mm	52 mm	✓

* other colors and finishes available by request

** chainline measured with chainwheel CF3D / other chainlines available by request

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SCREWS



M15

REF. 804



Material
Steel

Coating
Zinc-nickel

M15 Self extracting bolts

REF. 809



Material
Steel

Coating
Zinc-nickel

M10

REF. 801



Material
Steel

Coating
Zinc-nickel

M10 Self extracting bolts

REF. 806



Material
Steel

Coating
Zinc-nickel

M8

REF. 800



Material
Steel

Coating
Zinc-nickel

M8 Self extracting bolts

REF. 805



Material
Steel

Coating
Zinc-nickel

Chainring screw and nuts

REF. 810



M8x0,75
for chainring set
or chainring+chainguard set

Material
Stainless Steel

FINISHES

STANDARD (PAINTING)*



PEARL



PLUS



*COLORS AVAILABLE

Other colors or personalized finishes by request

Black Smooth surface	Anodized Smooth surface	Ocean blue Smooth surface	Red Smooth surface
Black textured Textured surface	Chrome painting Smooth surface	Sky blue Smooth surface	Coral red Smooth surface
Black granited Rough surface	Gray Smooth surface	Green Smooth surface	Metallic orange Smooth surface
White Textured surface	Champagne Rough surface	Pure green Smooth surface	Magenta Smooth surface

DIAMANT



BELT LINE GUIDE

CODE	MANUFACTURER	DESCRIPTION	MODEL NUMBER	BELT LINE
EN-455	Enviolo	TR, SP, CA	132/142	45,5 mm
EN-487		SP	148 Boost	48,5 mm
SH-417	Shimano	Inter-5E	Di2	41,7 mm
SH-455			Mechanical	45,5 mm
SH-417	Shimano	Nexus 8	Di2	41,7 mm
SH-455			Mechanical	45,5 mm
RO-547	Rohloff	500/14	132/142	54,7 mm

INLINE



POLISHED



DOUBLE DIAMANT



GRAPHIC



HD



INLINE PLUS



CHAIN COMPATIBILITY

Tooth type					
Tooth name	STANDARD CHAINRINGS	CHAIN FLOW	CHAIN FLOW 3D	CHAIN FLOW 3D SE12	CHAIN FLOW 3D CE13
Recommended chain	All 7, 8, 9, and 10 speed chains	All 9, 10 and 11 speed chains	9, 10, 11 speed chains and Sram Eagle non T-type	Designed for Sram Eagle and Road 12 speed T-type, 12 speed Shimano Hyperglide+, KMC DLC and X12	Designed for 13 speed EKAR C13 Campagnolo
Not recommended	11, 12 and 13 speed chains	12 and 13 speed chains	Sram Eagle and Road 12 speed T-type, 12 speed Shimano Hyperglide+, KMC DLC and X12 and 13 speed chains	13 speed chains	-----

20
28

Miranda

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