

#### **COMPANY**

#### About us

#### We test what we do!

The performance, efficiency and reliability are our base work priorities. Though lightweight, the stiffness of PROTOTYPE products are tested through a computationally intensive process to the limit, proven by elite athletes who have won more than 100 national and international titles, including the World Champion.

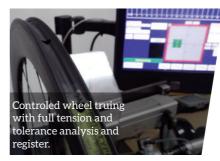
PROTOTYPE is totally committed with after sales support, giving technical solutions to allow find practical and simplified options.

We know where we are and where we want to go.













Finite element analysis (FEA) to calculate stresses and displacements of component displacements, strains under internal and external loads.

With the analysis results, we can catch design flaws and optimize features at the drawing stage.















All wheels are built with unmatched attention to detail, we use high-precision tools, specially designed by us. We can offer a ride quality and durability that cannot be matched by a stock machine-built set.

Ivo Santos

Prototype Technical Department





The perfect combination for fun and performance

These fast and light products are all about responsiveness and efficiency due to our constant research and development

# CROSS COUNTRY WORLD CUP SP











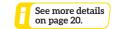




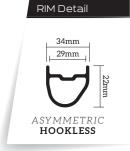
BLACK

Reference weight: Clincher: 29" EVO 4 SP Boost - 1410gr

MSRP: 1.890 €



**CARBON SL** 

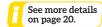






Reference weight: Clincher: 29" Boost - 1290gr

MSRP: 1590 €





# CROSS COUNTRY



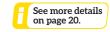






Reference weight: Clincher: 29" Boost - 1560gr

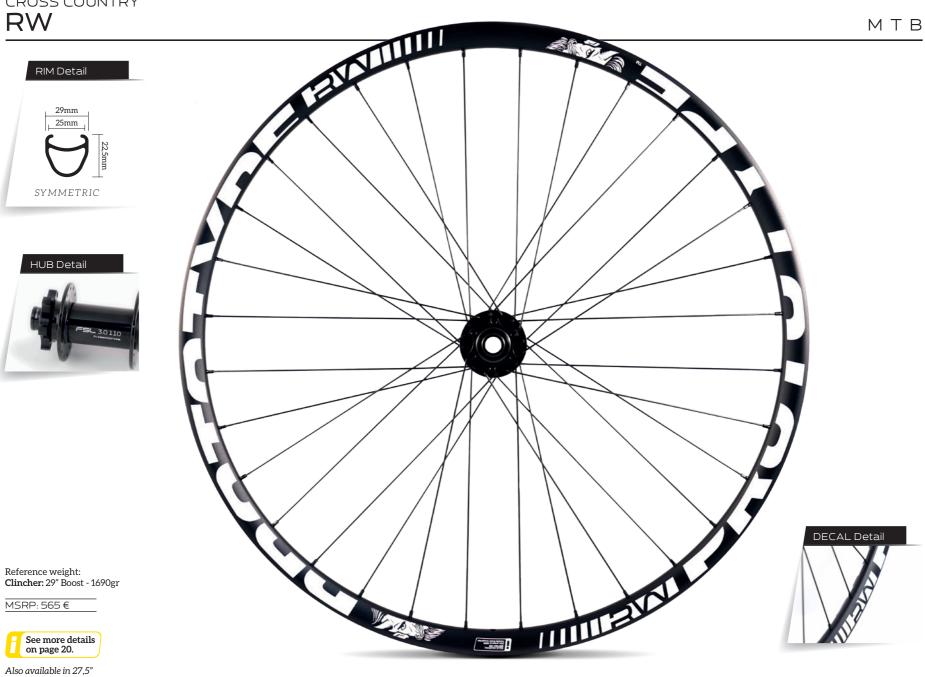
MSRP: 1065€





МТВ

### **CROSS COUNTRY**



See more details on page 20.

Also available in 27,5"

### ENDURO & E-MTB

### FLASH CARBON



МТВ

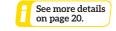






Reference weight: Clincher: 29" Boost - 1680gr

MSRP: 1.285€



Also available in 27,5"



### ENDURO & E-MTB FLASH AL

МТВ



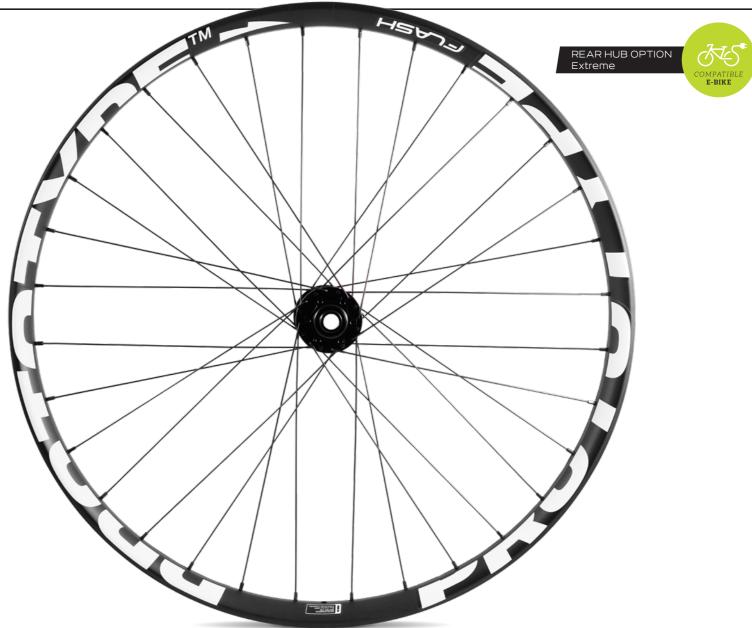


Reference weight: Clincher: 29" Boost - 2020gr

MSRP: 645 €



Also available in 27,5"



Prototype is the answer when a racer is looking for the best performance

We have the finest combination of light, stiff and aero wheelsets, developed in partnership with professional athletes





## ROAD WORLD TOUR 3







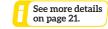




Optional

Reference weight: Clincher: 1430gr

MSRP: 1690 €

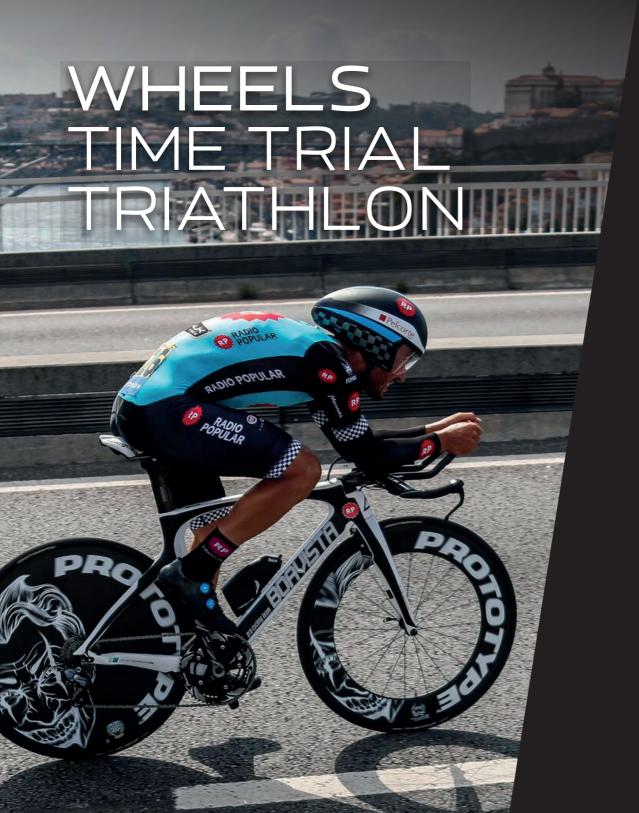






PRO TOUR DISC 3





The Joker wheelset is the choice for pros racing against the clock

From the Time Trial, Olympics Games to pro Ironman races, it's a proven route to the top step of the podium

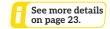
#### TIME TRIAL TRIATHLON

## **JOKER DISC**



Reference weight: **Clincher:** 1180gr

MSRP: 1475 €



# It's a new era of wheels

The Prototype Gravel specific carbon fiber is designed to withstand the hardest terrain. The tire bed is capable of resist frequent installations and removals.







# TECHNICAL SPECIFICATIONS MTB WHEELS

	World Cup SP	Carbon SL	Carbon ZerO
Rim Material	Full Carbon	Full Carbon	Full Carbon
Rim Width Inner/Outer	27/32	29/34	25/31
Profile	30	25	25
Tire Size / Width	29" / 2.0 to 2.5	29"	29" / 2.0 to 2.5
Tire Type	Tubeless ready	Clincher	Tubeless ready
Spoke	Aero SL 2.0 - SP	Round - J Bend	Round - J Bend
Nipple	Aluminium	Aluminium	Aluminium
Hub Model*	EVO 4 SP	EVO 4 SP	FSL 3.0
Freewheel Body	SH 11 / XD / Micro Spline	SH 11 / XD / Micro Spline	SH 11 / XD / Micro Spline
Braking	Disc Brake IS	Disc Brake IS	Disc Brake IS (6 bolts)
ASTM **	3	3	3
Discipline	XCO / XCM	XC	XCO / XCM
Weight Limit	100kg	90kg	100kg
Weight (Boost)	1410gr	1240gr	1560gr

	RW	E-Flash Carbon 36	E-Flash AL
Rim Material	Aluminium	Full Carbon	Aluminium
Rim Width Inner/Outer	25/29	30 / 36	33 / 37
Profile	22.5	28	21
Tire Size / Width	29" / 2.0 to 2.5	27,5" / 29"	27,5" / 29"
Tire Type	Tubeless ready	Tubeless ready	Tubeless ready
Spoke	Round - J Bend	Round	Round
Nipple	Aluminium	Aluminium	Aluminium
Hub Model*	FSL 3.0	FSL 3.0 Extreme	FSL 3.0 Extreme
Freewheel Body	SH 11 / XD / Micro Spline	SH 11 / XD / Micro Spline	SH 11 / XD / Micro Spline
Braking	Disc Brake IS	IS	Disc Brake IS (6 bolts)
ASTM **	3	3	3
Discipline	XCO / XCM	E-Bikes / AM	E-Bikes / AM
Weight Limit	95kg	110kg	110kg
Weight (Boost)	1690gr	1680gr	2020gr

Note: The weights indication is just a reference value.

# ROAD DISC WHEELS

	World Tour 5	World Tour 3
Rim Material	Full Carbon UD	Full Carbon UD
Rim Width Inner/Outer	19/26	19/26
Profile	50	38
Tire Size / Width	700x19/28c Tubeless Ready	700x19/28c Tubeless Ready
Tire Type	Clincher / Tubeless Ready	Clincher / Tubeless Ready
Spoke	Aero 2.0	Aero 2.0
Nipple	Aluminium	Aluminium
Hub Model*	Evo R	Evo R
Freewheel Body	SH 10-12s / XDR / Campagnolo	SH 10-12s / XDR / Campagnolo
Braking	Center-Lock	Center-Lock
ASTM **	1	1
Discipline	Road	Road
Weight Limit***	100kg	90kg
Weight	1560gr	1430gr

	Pro Tour Disc 5	Pro Tour Disc 3	
Rim Material	Full Carbon	Full Carbon	
Rim Width Inner/Outer	21 / 27	21 / 27	
Profile	50	30	
Tire Size / Width	700x19/28c Tubeless Ready	700x19/28c Tubeless Ready	
Tire Type	Tubeless Ready	Tubeless Ready	
Spoke	Aero	Aero	
Nipple	Aluminium	Aluminium	
Hub Model*	FSL R	FSL R	
Freewheel Body	SH / XDR / Campagnolo	SH / XDR / Campagnolo	
Braking	Center-Lock	Center-Lock	
ASTM **		1	
Discipline	Road	Road	
Weight Limit	120kg	110kg	
Weight (Boost)	1590gr	1460gr	

Note: The weights (limit and boost) indication is just a reference value.

<sup>\* -</sup> Consult hub compatibity in our web site
\*\* - Consult ASTM in our web site

# TIME TRIAL TRIATHLON WHEELS

	Joker DISC
Rim Material	Full Carbon
Rim Width Inner/Outer	23
Profile	<u>-</u>
Tire Size / Width	700x19/25c
Tire Type	Tubular
Spoke	
Nipple	<u>-</u>
Hub Model*	SP 2
Freewheel Body	SH / XDR / Campagnolo
Braking	Caliper
ASTM **	1
Discipline	Road
Weight Limit	100kg
Weight	1210gr

## GRAVEL / CYCLOCROSS WHEELS

	CRATER Carbon	CRATER Carbon Tubular
Rim Material	Full Carbon	Full Carbon   Tubular
Rim Width Inner/Outer	24/31	/28mm
Profile	30	30
Tire Size / Width	28 to 50	28 to 50
Tire Type	Tubeless Ready	Tubeless Ready
Spoke	Inox	Inox
Nipple	Aluminium	Aluminium Black
Hub Model*	FSL R	FSL R
Freewheel Body	SH / XDR / Campagnolo	SH / XDR / Campagnolo
Braking	Center-Lock	Center-Lock
ASTM **	2	2
Discipline	CX / Gravel / Road	CX / Gravel / Road
Weight Limit	110kg	110 kg
Weight	1395gr	1355 gr

Note: The weights indication is just a reference value.

<sup>\* -</sup> Consult hub compatibity in our web site

<sup>\*\*\* -</sup> Consult ASTM in our web site \*\*\* - Weight Limit = rider weight + complet bike

#### WHEELS **ACESSORIES**

#### Sealant



Compatible with tubeless ready and full UST wheels/tyres, prevents oxidation in the components.

Capacities: 150ml/500ml/5Lts

MSRP 500ml: 16.80 € Ref: P03.04.002

#### Center Lock Adapter



The Center lock adapter has been designed to work with the center lock hubs allowing you to fit standard 6 bolt "I.S." conventional disks.

Valve Exten.

Ref: P03.04.001

#### TR Valves



Only 1.8 grams per wheel

Material: Aluminum Weigth: 1.8gr each Extend: 32mm Color: Black Anodized Item: Include 2 pcs

MSRP: 6€

Ref: P74.99.001



Removable Core 50% Lighter

Available colors



Material: Aluminum with steel nut Weigth: 4.2gr Height: 44mm Rubber Shape: Conic Round Color: Black or Red anodized

MSRP: 8.50 €

Ref. BK 44: P74.99.012

Ref. RD 44: P74.99.014

Ref. BK 60: P74.99.034



Ref: P74.99.050

Removable Core

Material: Brass Weigth: 8.4gr Height: 40mm Rubber Shape: Conic Round Color: Silver

MSRP:6€

Ref: P74.99.012

TR Rim Tape





Width: 25 / 27 / 30 / 34 / 38 mm Lenght: 5mts

MSRP: 8.75 €

Ref. 25: P74.99.027

Ref. 27: P74.99.031

Ref. 30: P74.99.032

Ref. 34: P74.99.030

Ref. 38: P74.99.035



Weigth: MTB - 71gr Weigth: Road - 69gr

MSRP: 32 €

Ref. Road: P74.99.007

Ref. MTB: P19.01.008

COMPONENTS
PHYSIS CARBON

CARBON IS
IN THE SUN, STARS,
COMETS AND
IN YOUR BIKE TOO.

#### Handle Bar

Material: Carbon UD Matt Lenght: 750mm Central Diameter: 31.8mm Backsweep: 6.5° Weight: 168gr

MSRP: 135 € Ref: P31.11.004



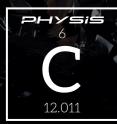
Material: Carbon UD Matt Lenght: 420mm Diameter: 27.2 /30.9 / 31.6mm Min. Insert: 100mm Max. Tightness: 5Nm Weight (27.2mm): 162gr

MSRP: 155 €

Ref. 27.2: P23.11.014

Ref. 30.9: P22.11.015

Ref. 31.6: P22.11.016



# PHYSIS

#### Handlebar



The ability to absorb vibrations is critical to reduce fatigue while stiffness is essential for the perfect control of a bike. Though very light, Physis handlebar is rigid and strengthened in grip areas.

Length: 660mm/710 mm | 730mm (Team) Material: Aluminum Light Force Weigth: 270gr | 210gr (Team)

MSRP: 53 € | 84 € (Team)

Ref. 660: P31.11.001

Ref. 710: P31.11.002

Ref. Team: P31.11.003

#### Stem

Being the stem a key element for the perfect fit for riders' position, Physis stem distinguishes itself by its design, construction materials and vibration absorption capacity.



Length: 6° and 17° > 80 mm ~ 130mm Material: Aluminum Light Force Bolts: Titanium Weigth: 6° - 98gr (90mm) / 17° - 100gr (90mm)

MSRP: 68 €

Ref. 17°: P08.11.010

#### Seat Clamp



Dimensions: 31.8 / 34.9 / 36.0 / 38.2 Material: Aluminum Light Force Weight: 5.9gr (38.2)

Available colors



MSRP: 20 €

Ref. 31.8: P04.01.017

Ref. 34.9: P04.01.018

#### Bar Ends



Length: 75mm Material: Aluminum Light Force Weight: 46gr

Available colors



MSRP: 29.50 €

Ref. BK: P25.11.005

#### Grips



Material: 100% Silicone Weight: 84gr - Comfort / 59gr - Sport

Available colors



MSRP: 18€ (Comf. or Sport)

Ref. BK: P50.01.015

#### Seat Post



Material: Aluminum Light Forc
Weight: 27.2 x 410 mm > 205 gr
31.6 x 410 mm > 167 gr
30.9 x 410 mm > 185 gr

Available colors



MSRP: 95 €

Ref. 27.2: P23.11.004

Ref. 31.6: P23.11.001

Ref. 30.9: P23.11.007

#### COMPONENTS

### **BOTTOM BRACKET**

#### Our bottom brackets feature high quality sealed cartridge bearings

#### PF 41-30mm

#### PF 41 DUB

#### PF 41mm PF 30mm

The PROTOTYPE bottom bracket is a significant upgrade to any OEM bottom bracket.
High qaulity aluminium material CNC machined cups and the special bearings offer longer bearing life, smoother operation and increase the performance.



Axle 30mm (frame 41mm)

MSRP: 46.80 € **Ref:** P36.01.012



DUB (frame 41mm)

MSRP: 43.90 € **Ref:** P36.01.018

Shimano (frame 41)

MSRP: 37.50 €

Ref: P36.01.010

GXP (frame 41mm)

MSRP: 39.80 €

Ref: P36. 01.011



BB386 -86.5mm (frame 46mm)

MSRP: 44.80 €

Ref: P36.01.020

DUB (frame 46mm)

MSRP: 44.80 €

Ref: P36.01.017

#### PF 30mm

#### PF 42mm

#### BSA AXLE

#### BSA Shimano

#### BSA-GXP



BB30 68-73mm (frame 46mm)

MSRP: 44.80 €

Ref: P36.01.009

Shimano (frame 46mm)

MSRP: 42.80 €

Ref: P36.01.013

GXP (frame 46mm)

MSRP: 42.80 €

Ref: P36.01.014



Shimano (frame 42mm)

MSRP: 39.80 €

Ref: P36.01.016

GXP (frame 42mm)

MSRP: 39.80 €

Ref: P36.01.015



Axle 30mm (frame thread)

MSRP: 45.80 €

Ref: P36.01.001

Axle DUB (frame thread)

MSRP: 45.80 €

Ref: P36.01.019



Shimano (frame thread)

MSRP: 37.50 €

Ref: P36.01.003



GXP (frame thread)

MSRP: 39.80 €

Ref: P36.01.005

#### COMPONENTS **HEADSETS**

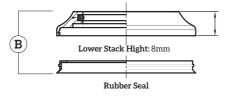
#### Headset



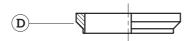


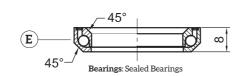
Alloy Star Nut: available for carbon tube expander

UPPER SET

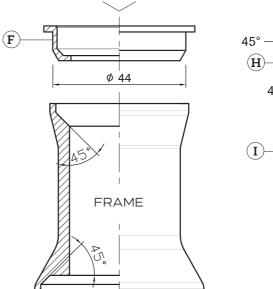








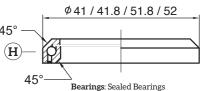
UPPER SET

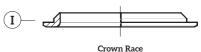






#### **BOTTOM SET**





The quality of steering headset is assessed by sensivity and smoothness thoughout its lifetime maintenance.

#### Fork Crown Race Adaptor 1.5" - 1"1/8

Fork Crown Adaptor



Material: AL7075 Weigth: 12gr.

MSRP: 6.80 € Ref: P14.99.001



# COMPONENTS HEADSETS

Prototype headsets have a low profile to keep stack height to a minimum keeping the front end low and fast.

#### Semi-integrated

MSRP: 55.90 €	Standard 1 1/8" - 1 1/8"	Tapered 1 1/8" - 1,5" 55mm	Tapered 1 1/8" - 1,5" 56mm
UPPER BEARING	41.8x45°x8	41.8x45°x8	41.8x45°x8
UPPER CUP	44mm	44mm	44mm
BOTTOM CUP	44mm	55mm	56mm
BOTTOM BEARING	41.8x45°x8	51.8x45°x8	51.8x45°x8
Weight without cap	76gr	90gr	90gr

#### Integrated

MSRP: 46.80 €	Standard 1 1/8" - 1 1/8"	Standard 1 1/8" - 1 1/8"	Tapered 1 1/8" - 1 1/4"	Tapered 1 1/8" - 1,5"
UPPER BEARING	41.0x45°x8	41.8x45°x8	41.8x45°x8	41.8x45°x8
BOTTOM BEARING	41.0x45°x8	41.8x45°x8	46.8x45°x7	51.8x45°x8
Weight without cap	70gr	72gr	74gr	76gr

#### Spacers

# Super Light headset spacers

Spacers are super light. Featuring CnC machined inner grooves. Not a single gram is spared.



Material: Aluminum Outter ø: 34mm One Set includes 2pcs: 5 | 10mm Weight: 5mm: 1.8gr / 10mm: 3.6gr

MSRP: 4.80 €

Ref: P02.01.005 BK

#### Headset Cap

#### **Headset Top Cap**



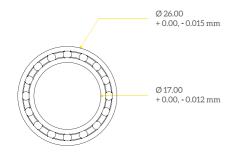
Material Cap: AL7075 Material Bolt: M6x35mm AL7075 Material Spider: AL6061 + Steel Weigth: Top Cap: 3.8gr Bolt: 2.3gr / Spider: 5.9gr

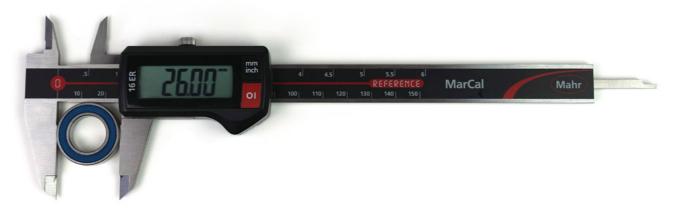
MSRP: 8.30 €

Ref: P14.99.021 BK

### **WORKSHOP**

#### Bearings





# New EVO Bearings PERFORMANCE, DURABILITY, PRECISION.

#### General bearing

Dimensions	Designation
9 x 17 x 5	689
9 x 24 x 7	609
10 x 19 x 5	6800
10 x 22 x 6	6900
10 x 26 x 8	6000
12 x 21 x 5	6801
12 x 24 x 6	6901
12 x 28 x 8	6001
15 x 24 x 5	6802
15 x 26 x 7	MR15267
15 x 28 x 7	6902
16 x 26 x 7	MR16267
17 x 26 x 5	6803
17 x 28 x 7	MR17287
17 x 30 x 7 ———	6903
18 x 30 x 7 ———	MR18307
20 x 27 x 7 ———	6704
20 x 32 x 7 ———	6804
27.5 x 37 x 7 ——	<ul><li>MR275377 (Predictive)</li></ul>

High precision ball bearings (Abec5) with hardening surface and anti-corrosion treatment.



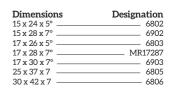
#### Headset bearing

Dimensions	Designation
38.9 x 6.5 x 36°	1-1/8"
39 x 6.5 x 36°	1-1/8"
41 x 6.5 x 45°	1-1/8"
41 x 7 x 45°	1-1/8"
41 x 8 x 45°	
41.8 x 6.5 x 45°	1-1/8"
41.8 x 8 x 30.5 x 45° 1.125T".	1-1/8"
41.8 x 8 x 45°	1-1/8"
46.8 x 7 x 45°	1-1/4"
48.9 x 6.5 x 36°/45°	1-1.5"
51.8 x 8 x 45°	1-1.5"
52 x 8 x 45°	1-1.5"
19/16 x 21 x 9"	Lefty
19/16 x 21 x 9" x 45°	Lefty

#### **Bottom Bracket bearings**

Dimensions	Designation
22 x 37 x 8/11.5	GXP BSA
24 x 37 x 7	MR24377
25 x 37 x 7	6805
29 x 42 x 7	6806/29 (DUB)
30 x 42 x 7	6806
35 x 47 x 7	6807

#### Ceramic







### **WORKSHOP**

#### M5 - M6 Bolts



Material: Titanium Gr5

**M5 Dimensions:** 16mm | 20mm | 25mm | **Weight:** 1,2gr | 1,6gr | 1,7gr

**M6 Dimensions:** 20mm | 25mm | 35mm | 45mm | **Weight:** 2gr | 2,2gr | 2,5gr | 3,5gr

Available colors



MSRP: 7.50€ (2pcs)

Ref. M5x16: P40.01.090

MSRP: 7.50€ (2pcs)

Ref. M5x18: P40.01.088

MSRP: 23.50€ (6pcs)

Ref. M5x8 disc: P40.01.094

MSRP: 5.90€ (1pc)

Ref. M5x30: P40.01.099

MSRP: 14€ (2pcs)

Ref. M6x18: P40.01.097

MSRP: 23.5€ (4pcs)

Ref. M6x18: P40.01.096

#### Chainring Bolt



Material: Aluminum Light Force

Small 6,5mm

Weight: 5,8gr

Large 8,5mm Weight: 7gr

Available colors



MSRP: 14.50€ (4pc)

Ref. 6.5 mm: P40.01.064

MSRP: 18€ (5pcs)

Ref. 6.5 mm: P40.01.069

MSRP: 23.5€ (4pcs)

Ref. 8.5 mm: P40.01.074

MSRP: 18€ (5pcs)

Ref. 8.5 mm: P40.01.079

#### Bolt SRAM M10



Material: Aluminum Light Force Weight: 4,1gr

Available colors



MSRP: 25€ (4pc)

Ref: P40.01.084 BK

Visit **www.prototype.pt/support** to find:

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PROTOTYPE | Leiria-Portugal hello@prototype.pt | www.prototype.pt

