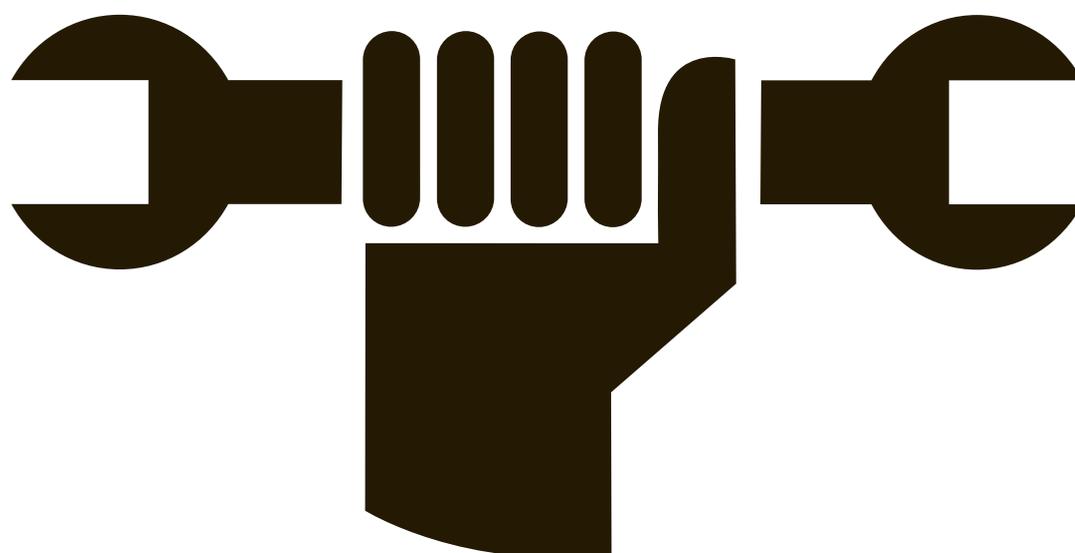


# **FRM**

**BICYCLE TECHNOLOGY**



Made in Italy

**FRM Tubeless**

**CARBOCOM**  
TECNOLOGIA APPLICATA AI MATERIALI COMPOSITI

**KENDA**

**MORGAN BLUE**



# MTB

## SP-M21 XMD Aerolite

- Hubs and rims are made in Italy
- Race Day Wheels for X-Country. Tested by World Top Pros
- For UST or Standard Tires (with tubes or Tubeless Sealant)
- Worlds lightest rim with eyelets at 320 grams, the FRM XMD 333 rim has been designed to be compatible with standard tires as well as UST tires
- Asymmetric profile for better end even spoke tension
- Supplied Tubeless Ready (White Tape, Air Valves and Sealant 500cc)
- Spokes: Hyperlight DT Swiss bladed Aerolite black spokes with black anodised nipples in light alloy
- Hubs: SP-M Team Disc. Carbon fibre centre body (Straight-Pull type)
- Holes: 32 front and rear
- 100% waterproof freewheel
- SK-M Team quick releases (titanium axle) Black anodised levers
- Red anodised hubs and rims
- Rear hub supplied with a cogset lock-ring in light alloy for 11T cog
- Hand built and tensioned with digital tensiometer for consistent even true
- NEW Replaceable Disc Mount Adaptors allows the rotor installation without the use of 6 bolts with consequential additional weight saving (-25gr)
- Rider weight limit: 80kg
- OPTION: Sawrotor II discs in 160-140mm or 160-160mm combo
- SK-M Team SL quick release
- Kenda tires: Nevegal Lite 1,95", Karma DTC 2,0", Small Block 8 2,1"
- **Weight Tubeless Ready 1.365g, without Q.R.**
- 1.420g, with SK-M Team Q.R.**



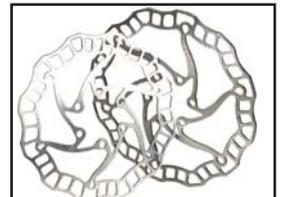
Straight-pull Aero spokes



Replaceable Disc Mount Adaptor



Tubeless Sealant included



Option: Sawrotor II discs



Disc installation without fixing bolts



Option: SK-M Team SL



11T Lock-ring in light alloy included

Manuals available on [www.frmbike.com](http://www.frmbike.com)

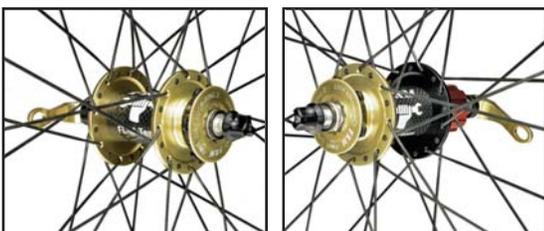


## FL-M21 XMD Aerolite

- Hubs and rims are made in Italy
- Race Day Wheels for X-Country. Tested by World Top Pros
- For UST or Standard Tires (with tubes or Tubeless Sealant)
- Worlds lightest rim with eyelets at 320 grams, the FRM XMD 333 rim has been designed to be compatible with standard tires as well as UST tires
- Asymmetric profile for better end even spoke tension
- Supplied Tubeless Ready (FRM White Tape, Air Valves and Sealant 500cc)
- Spokes: Hyperlight DT Swiss bladed Aerolite black spokes with gold anodised nipples in light alloy
- Hubs: FL-M Team Disc. Carbon fibre centre body
- Holes: 28 front, 32 rear
- 100% waterproof freewheel
- SK-M Team quick releases (titanium axle) Gold anodised levers
- Gold hubs and black rims
- Rear hub supplied with a cogset lock-ring in light alloy for 11T smallest cog
- NEW Replaceable Disc Mount Adaptors allows the rotor installation without the use of 6 bolts with consequential additional weight saving (- 25g.)
- Hand built and tensioned with digital tensiometer for consistent even true
- Rider weight limit: 80kg
- OPTION: Sawrotor II discs in 160-140 or 160-160 combo
- SK-M Team SL quick release
- Kenda tires: Nevegal Lite 1,95", Karma DTC 2,0", Small Block 8 2,1"
- **Weight Tubeless Ready 1.360g, without Q.R.**
- 1.417g, with SK-M Team Q.R.**

## FL-M21 XMD Tubular Aerolite

- Same specifications as above except:
- Worlds lightest tubular rim with eyelets at 360 grams, the FRM XMD 360 Tubular rim has been designed to be compatible with the new generation of tubular tires.
- Asymmetric profile for better end even spoke tension. Rim profile on page 13
- Holes: 24 front, 28 rear
- OPTION: Sawrotor II discs in 160-140 or 160-160 combo
- SK-M Team SL quick release
- **Weight: 1.355g, without Q.R.**
- 1.412g, with SK-M Team Q.R.**



# MTB

## LEFTY FL-M21 XMD Aerolite LEFTY FL-M21 XMD

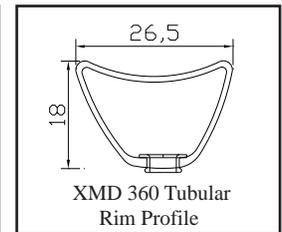
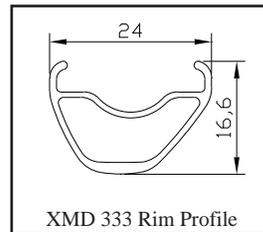
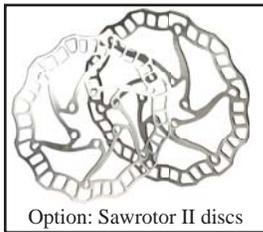
- Hubs and rims are made in Italy
- Race Day Wheels for X-Country. Tested by World Top Pros
- For UST or Standard Tires (with tubes or Tubeless Sealant)
- Worlds lightest rim with eyelets at 320 grams, the FRM XMD 333 rim has been designed to be compatible with standard tires as well as UST tires
- Asymmetric profile for better end even spoke tension
- Supplied Tubeless Ready (FRM White Tape, Air Valves and Sealant 500cc)
- Spokes of Lefty FL-M21 XMD Aerolite: DT Swiss bladed Aerolite black with gold anodised nipples in light alloy
- Spokes of Lefty FL-M21 XMD: DT Swiss Revolution 2,0-1,5-2,0 with nipples in light alloy
- Hubs: front Lefty FL-M Team and rear FL-M Team. Carbon fibre centre body
- Holes: FL-M21 XMD Aerolite 28 front. 32 rear. FL-M21 XMD 32 front & rear
- 100% waterproof freewheel
- SK-M Team rear quick release (titanium axle) Gold anodised lever
- Gold hubs and black rims
- Rear hub supplied with a cogset lock-ring in light alloy for 11T smallest cog
- Replaceable Disc Mount Adaptors for 6 holes rotors
- Hand built and tensioned with digital tensiometer for consistent even true
- Rider weight limit: 80kg
- OPTION: Sawrotor II discs in 160-140 or 160-160 combo with Steel or Titanium fixing bolts  
Kenda tires: Nevegal Lite 1,95", Karma DTC 2,0", Small Block 8 2,1"
- **Weight Tubeless Ready 1.345g. without Q.R.  
1.375g. with rear SK-M Team Q.R.**



Manuals available on [www.frbike.com](http://www.frbike.com)

## LEFTY FL-M21 XMD Aerolite Tubular

- Same specifications as above except:
- Worlds lightest tubular rim with eyelets at 360 grams, the FRM XMD 360 Tubular rim has been designed to be compatible with the new generation of tubular tires
- Asymmetric profile for better end even spoke tension
- Holes: 24 front, 28 rear
- **Weight: 1.340g. without Q.R. 1.370g. with rear SK-M Team Q.R.**



## FL-M21 XMD

- Hubs and rims are made in Italy
- Race Day Wheels for X-Country
- For UST or Standard Tires (with tubes or Tubeless Sealant)
- Worlds lightest rim with eyelets at 320 grams, the FRM XMD 333 rim has been designed to be compatible with standard tires as well as UST tires
- Asymmetric profile for better end even spoke tension
- Supplied Tubeless Ready (FRM White Tape, Air Valves and Sealant 500cc)
- Spokes: Hyperlight DT Swiss Revolution 2,0-1,5-2,0 with nipples in light alloy
- Hubs: FRM FL-M Team Disc. Carbon fibre centre body
- Holes: 32 front & rear
- 100% waterproof freewheel
- SK-M Team quick releases (titanium axle) Gold anodised levers
- Gold hubs and black rims
- Rear hub supplied with a cogset lock-ring in light alloy for 11T smallest cog
- NEW disc mount adaptor allows the disc installation without the use of 6 bolts with consequential additional weight saving (- 25g.)
- Hand built and tensioned with digital tensiometer for consistent even true
- Rider weight limit: 80kg
- OPTION: Sawrotor II discs 160-140 or 160-160 combo  
Kenda tires: Nevegal Lite 1,95", Karma DTC 2,0", Small Block 8 2,1"
- **Weight Tubeless Ready: 1.370g. without Q.R.  
1.427g. with SK-M Team Q.R.**



# MTB

## FL-M12 XMD

- Hubs and rims are made in Italy
- Race Day Wheels for X-Country
- For UST or Standard Tires (with tubes or Tubeless Sealant)
- Worlds lightest rim with eyelets at 320 grams, the FRM XMD 333 rim has been designed to be compatible with standard tires as well as UST tires
- Asymmetric profile for better end even spoke tension
- Supplied Tubeless Ready (FRM White Tape, Air Valves and Sealant 500cc)
- Spokes: Superlight DT Swiss Revolution 2,0-1,8-2,0 with nipples in light alloy
- Hubs: FRM FL-M Pro Disc in light alloy
- Holes: 32 front and rear
- 100% waterproof freewheel
- SK-Pro quick releases (steel axle) Black anodised levers
- Black anodised hubs and rims
- Rear hub supplied with a cogset lock-ring in light alloy for 11T smallest cog
- Replaceable Disc Mount Adaptors for 6 holes rotors
- Hand built and tensioned with digital tensiometer for consistent even true
- Rider weight limit: 80kg
- OPTION: Sawrotor discs in 160-160mm combo with Steel or Titanium fixing bolts

- **Weight Tubeless Ready 1.340g. w/out Q.R.**  
**1.412g. with Team Q.R.**



Manuals available on [www.frmbike.com](http://www.frmbike.com)



## FL-M TEAM DISC

- Made in Italy
- Tubular construction in high strength carbon fibre bonded to light alloy flanges of large diameter
- Water-proof labyrinth seals and 2RS sealed bearings
- Totally waterproof freewheel
- The 15 mm oversized front axle in Scandium light alloy is stiff and light
- SK-M Team quick releases (4 mm titanium axle)
- Rear hubs are supplied with a cogset lock-ring in light alloy for 11T smallest cog
- Radial lacing: front and rear left are allowed
- NEW Replaceable Disc Mount Adaptors allows the rotor installation without the use of 6 bolts with consequential additional weight saving (-25gr)
- OPTION: holes. Front 28-32h. Rear 28-32h.

SK-M Team SL quick release  
**- Weight set: 407g. (135+272) w/out Q.R. 465g. with Team Q.R.**

## LEFTY FL-M TEAM DISC

- Front hub compatible with Cannondale Lefty fork
- Rear hub: see specifications under FL-M Team Disc
- Rear FRM Team quick release (4 mm titanium axle) Gold Works anodised lever
- Disc Mount for 6 holes rotors
- OPTION: holes. Front 28-32h. Rear 28-32h.

**- Weight set: 394g. (122+272) w/out Q.R. 425g. with Team rear Q.R.**

## FL-M PRO DISC

- Made in Italy
- CNC machined from light alloy. Black anodised and laser etched
- Water-proof labyrinth seals and 2RS sealed bearings
- Totally waterproof freewheel
- The 15 mm oversized front axle in Scandium light alloy is stiff and light
- SK-Pro quick releases (4,5 mm steel axle) Black anodised levers
- Rear hubs are supplied with a cogset lock-ring in light alloy for 11T smallest cog
- Radial lacing: front and rear left are allowed
- Replaceable Disc Mount Adaptors for 6 bolts rotors
- OPTION: holes. Front 28-32h. Rear 28-32h.

**- Weight set: 375g. (120+255) w/out Q.R. 447g. with Pro Q.R.**



## SK-PRO

- CNC machined from light alloy
- 4,5mm steel axles
- Rear lock-nut 135mm
- Black anodised levers

**- Weight 72g. set**

## SK-M TEAM SL

- CNC machined from light alloy
- 4mm titanium axles
- Rear lock-nut 135mm
- Anti Theft lever (Red anodised)

**- Weight 44g. set**



## SK-M TEAM

- CNC machined from light alloy
- 4mm titanium axles
- Rear lock-nut 135mm
- Gold or Black anodised levers

**- Weight 57g. set**



# MTB

## DBR 250

- Made in Italy
- Lightest disc brake system available on the market
- CNC machined from solid blocks of light alloy.
- Calipers are of a one-piece design for efficient braking power and modulation
- Cooling fins
- Two-piston design hydraulically controlled (DOT5,1)
- Levers are compatible with Shimano Rapidfire, SRAM Trigger or Shifter
- Levers are of radial design with the master cylinder perpendicular to the handlebar
- Post-Mount calipers can be adapted to any rotor size with Post-Mount adapters
- Semi-Metallic disc pads with light alloy backing (XTR compatible)
- Titanium (gold plated) hardware for lever, caliper and rotor fixing
- Frentubo carbon reinforced (Carbotech) hydraulic hose with light alloy fittings
- OPTION: Sawrotors II in 160 -140mm or 160-160mm  
Red or Gold anodised
- Supplied with the compatible rear adaptor. Front adaptor on request
- **Weight: 539g. with rear adaptor and 160-140 rotors and hardware**  
**558g. with rear adaptor and 160-160 rotors and hardware**



### Weight references:

- Avid Ultimate 160-160 with rear adapter and hardware: 676g.
- Magura Marta SL 160-160 with adapter and hardware: 705g.
- Formula Oro 160-160 with adapter and hardware: 708g.
- Shimano XTR (Internat. Std) 160-160 with hardware: 753g.
- Hope Mini 160-160 with adapter and hardware: 763g.

Manual available on [www.frbike.com](http://www.frbike.com)



## DBR 300

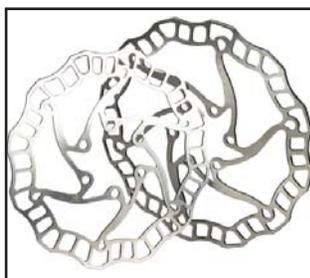
- Same specifications as DBR250 except:
- Semi-Metallic disc pads with steel backing (XTR compatible)
- Stainless Steel hardware for lever, caliper and rotor fixing
- Kevlar reinforced hydraulic hose with stainless steel fittings
- OPTION: Sawrotors in 160-160mm or 180-160mm  
Red or Gold anodised
- Supplied with rear adaptor AU02. Front adaptor on request
- **Weight: 640g. with rear adaptor and 160-160 rotors and hardware**

## DBR 300 DH

- Specific for Downhill use:
- Same specifications as DBR300 except:
- Metallic (Sintered) Pads with steel backing
- Frentubo Stainless Steel braided hose with light alloy fittings
- Discs: Sawrotor II in 203-180mm
- Supplied with rear adaptor AU04
- **Weight: 770g. with rear adaptor and 203-180 rotors and hardware**

## SAWROTOR II

- 160 or 140 mm dia. rotors in Stainless Steel for XC
- 203 or 180 mm dia. rotors in Stainless Steel for DH
- Compatible with all 6 bolt disc hubs
- Compatible with most, if not all, brake systems
- Excellent heat dissipation
- Hyperlight
- Original equipment on DBR250 and DBR300 DH brake systems
- **Weight: 160mm 82g. 140mm 60g.**  
**203mm 137g. 180mm 105g.**



## SAWROTOR

- 180 or 160 mm dia. rotors in Stainless Steel
- Compatible with all 6 bolt disc hubs
- Compatible with most, if not all, brake systems
- Excellent heat dissipation
- Superlight
- Original equipment on DBR300 brake system
- **Weight: 180mm 115g.**  
**160mm 93g.**



## BRAKE PADS

- FRM disc pads. Shimano XTR compatible (BR-M975/966/965)
- Metallic (Sintered) compound with steel backing (22g. set)
- Semi-Metallic compound with steel backing (18g. set)
- Semi-Metallic compound with light alloy backing (9gr set)



XTR compatible brake pads

## DISC FIXING BOLTS

- M5 x10 Titanium. Gold Plated. 13,6g. 12pcs
- M5x10 Light Alloy. Gold 8,4g. 12pcs
- The weight of 12 steel bolts is 24g.



Titanium - Gold plated

## POST-MOUNT ADAPTERS

- AU01: Internat. Std Fork with P-M caliper 160mm or 140mm rear
- AU02: Internat. Std Fork with P-M caliper 180mm or 160mm rear
- AU04: Rear 180mm
- AU31: P-M fork with P-M caliper 180mm



Light alloy - Gold anodised

# MTB

## BLACK HOLE INTEGRAL RISER

- Made in Italy at Carbocom under FRM licence
- Monocoque stem made from High Module Carbon Fibre
- Stem and handlebar are joined tube to tube
- Highest torsion to weight ratio
- Black anodised steerer collar with titanium fixing bolt (gold plated)
- Expander-Plug and light alloy bolt included (gold anodised)
- FRM Foam Grips included (26g pair)
- Stem angle: - 8°
- Handlebar width: 660mm
- Handlebar rise: 30mm
- Handlebar bend: upward 6° backward 9°
- OPTION: stem length 90-100-110-120-130mm
- Red or Black Safe-Bar caps (6g pair)
- Rider weight limit: 85kg
- **Weight: 272g with collar (stem 110mm)**



BLACKHOLE

BLACKHOLE

## BLACK HOLE INTEGRAL FLAT

- Made in Italy at Carbocom under FRM licence
- Monocoque made from High Module Carbon Fibre
- Stem and handlebar are joined tube to tube
- Highest torsion to weight ratio
- Black anodised steerer collar with titanium fixing bolt (gold plated)
- Expander-Plug and light alloy bolt included (gold anodised)
- FRM Foam Grips included (26g pair)
- Stem angle: - 8°
- Handlebar width: 600mm
- Handlebar bend: backward 5°
- OPTION: stem length 90-100-110-120-130mm
- Red or Black Safe-Bar caps (6g pair)
- Rider weight limit: 85kg
- **Weight: 227g with collar (stem 110mm)**



Manuals available on [www.frbike.com](http://www.frbike.com)

## WEB-STEM CF Ti. WEB-STEM CF

- Made in Italy
- Tubular construction in high strength carbon fibre bonded to light alloy lugs
- Lugs are CNC machined from a solid billet of 7075 alloy
- Two-bolt system for less stress on light weight handlebars
- Interchangeable angle +/-10° with flip-flop logo
- 31,8mm handlebar diameter
- OPTION: length 90-95-100-105-110-115-120-125-130mm
- Titanium or Steel bolts (4pcs)
- Gold or Black anodised lugs
- The Red front Cap is available with Black body and Titanium hardware only
- Rider weight limit: 85kg
- **Weight: Web-Stem CF Ti. 125g. (110mm)**
- Web-Stem CF 132g.**



Web-Stem CF Ti. Black



Web-Stem CF Black



Web-Stem CF Ti. Gold

## Titanium M5x15 Allen Bolts

- High Grade Titanium. Rolled thread.
- **Weight: 6g. 4pcs (save 8g over steel bolts)**



## Lefty Web-Stem CF Ti. Black



Lefty Web-Stem CF Gold



Option: Lefty spacers

## LEFTY WEB-STEM CF Ti. LEFTY WEB-STEM CF

- Made in Italy
- Compatible with Cannondale Lefty forks as used by Roel Paulissen
- Tubular construction in high strength carbon fibre bonded to light alloy lugs
- Lugs are CNC machined from a solid billet of 7075 alloy
- Two-bolt system for less stress on light weight handlebars
- Interchangeable angle +/-10° with flip-flop logo
- 31,8mm handlebar diameter
- OPTION: length 90-95-100-105-110-115-120-125-130mm
- Titanium or Steel bolts (4pcs)
- Gold or Black anodised lugs
- The Red front Cap is available with Black body and Titanium hardware only
- Specific spacers available (Spacers kit made of one 5 and one 10mm thick)
- Rider weight limit: 85kg
- **Weight: Lefty Web-Stem CF Ti.: 140g. (110mm)**
- Lefty Web-Stem CF: 148g.**

# MTB

## WEB-STEM 32 Ti. WEB-STEM 32

- Made in Italy
- CNC machined from a solid billet of Scandium light alloy
- Two-bolt system for less stress on light weight or carbon fibre handlebars
- Interchangeable angle +/-10° with flip-flop logo
- 31,8 mm handlebar diameter
- Black anodised and laser etched
- OPTION: length 100-110-120-130mm
- Titanium or steel bolts (4pcs)
- The Red front Cap is available with Black body and Titanium hardware only
- Rider weight limit: 85kg

- **Weight: Web-Stem 32 Ti. 118g. (110 mm)**  
**Web-Stem 32 125g.**



## STEM SPACERS

- Team Carbon spacers. 5mm or 10mm thick
- Pro Plastic spacers. 5mm or 10mm thick



## WEB-BAR 32 CARBON

- 100% High Module carbon fibre
- Fitted with Red or Black SAFE-BAR caps
- Length: 600mm
- Diameter 31,8mm
- Bend: backward 5°
- **Weight: 130g.**

## WEB-BAR 32 ENDURO CARBON

- 100% High Module carbon fibre
- Fitted with Red or Black SAFE-BAR caps
- Length: 660mm
- Diameter 31,8mm
- Rise: 30mm
- Bend: upward 6° backward 9°
- **Weight: 175g.**

## WEB-BAR 32

- Triple butted from 7075 light alloy
- Bed blasted, black anodised and laser etched
- Length: 580mm - Diameter 31,8mm - Bend: 5°
- **Weight: 170g.**

## WEB-BAR 32 ENDURO

- Double butted form 2014 light alloy
- Bed blasted, black anodised and laser etched
- Length: 660mm - Diameter 31,8mm - Rise: 20mm - Bend: 6°
- **Weight: 270g.**



## SAFE-BAR

- End cups for handlebars in light alloy
- Applied to the ends of the bar it is protected from impacts and falls
- OPTION: Red or Black anodised
- **Weight: 6g. set**

## FOAM GRIPS

- 130mm long
- Lighter and more comfortable than rubber grips
- **Weight: 26gr set**



## C-Set Pro



## C-Set Team

## C-SET TEAM C-SET PRO

- Made in Italy
- Manufactured in high strength 7075 light alloy
- Angular Contact Bearings ACB 36°x36° (TH-872)
- Sealed bearings and triple O-Ring seal for years of trouble-free performance
- 100% light alloy Expander-Plug for easy installation and play adjustment
- Black anodised cups
- C-Set Team: Stainless Steel bearings, red cap and light alloy bolt
- C-Set Pro: Steel bearings, black cap and steel bolt
- Total Height: 28,6mm
- **Weight: C-Set Team 78+20g. (Expander-Plug Team) = 98g.**  
**C-Set Pro 80+25g. (Expander-Plug Pro) = 105g.**

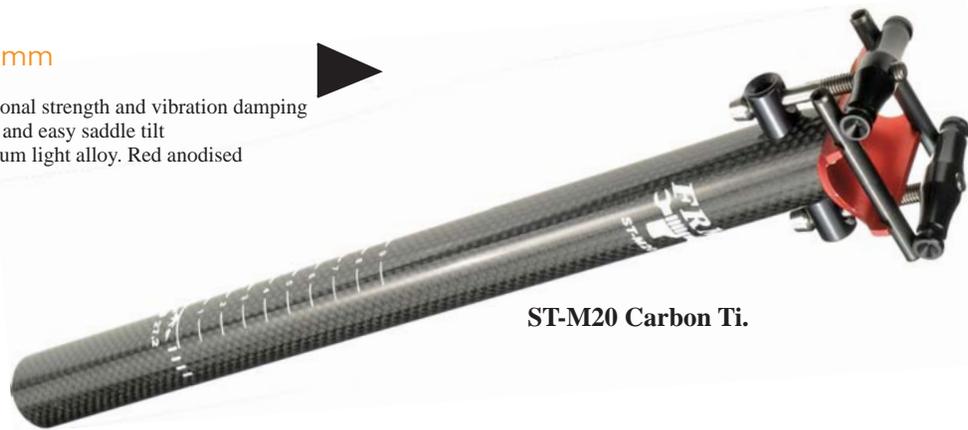
## EXPANDER-PLUG

- See page 8

# MTB

## ST-M20 Carbon Ti. 27,2 x 350mm

- Made in Italy
- Manufactured in High Grade carbon fibre for torsional strength and vibration damping
- Zero-Offset with two-bolt adjustment for accurate and easy saddle tilt
- Head/clamp parts are CNC machined from Scandium light alloy. Red anodised
- Titanium hardware
- Dimensions: 27,2 x 350mm
- Sleeves for oversize diameters available
- Rider weight limit: 80kg
- **Weight: 27,2 x 350mm 158g.**



ST-M20 Carbon Ti.



ST-M10 Ti. 30,9



ST-M10

## ST-M10 Ti. ST-M10 31,6 x 350mm 30,9 x 350mm 27,2 x 350mm

- Made in Italy
- CNC Machined from Scandium light alloy with external double butting
- Two-bolt adjustment for accurate and easy saddle tilt
- Head/clamp parts are CNC machined from 7075 light alloy
- Black anodised and laser etched
- OPTION: dimensions 31,6 - 30,9 - 27,2 x 350mm Titanium or Steel hardware
- The Red craddle is available with titanium hardware only
- Rider weight limit: 80kg
- **Weight:**  
27,2mm 185g. ST-M10  
30,9mm 166g. ST-M10 Ti. 176g. ST-M10  
31,6mm 168g. ST-M10 Ti. 174g. ST-M10

Manuals available on [www.frbike.com](http://www.frbike.com)

## ST-M21 Carbon Ti. 31,6 x 400mm 27,2 x 350mm

- Made in Italy
- Shaft manufactured in High Grade Carbon Fibre
- Head and clamp are CNC machined from 7075 light alloy
- Two-bolt adjustment for accurate and easy tilt
- 22mm offset
- Titanium hardware
- OPTION: dimensions 27,2 x 350mm 31,6 x 400mm Gold or Black anodised head
- Rider weight limit: 85kg
- **Weight: 185g. 27,2mm  
230g. 31,6mm**



ST-M21 Carbon Ti. 27,2x350 Gold head

ST-M21 Carbon Ti. 31,6x400 Black head



Black head



## ST-M11 Ti. ST-M11 31,6 x 370mm 30,9 x 370mm

- Made in Italy
- CNC Machined from Scandium light alloy with external double butting
- Head and clamp are CNC machined from 7075 light alloy
- Two-bolt adjustment for accurate and easy tilt
- 22mm offset
- OPTION: dimensions 31,6 x 370mm 30,9 x 370mm Titanium or Steel hardware Gold or Black anodised head
- Rider weight limit: 85kg
- **Weight:**  
30,9mm 195g. ST-M11 Ti. 198g. ST-M11  
31,6mm 197g. ST-M11 Ti. 200g. ST-M11

# MTB

## ST-M BLACK HOLE 31,6 x 350mm

- Made in Italy at Carbocom under FRM licence
- Monocoque made from High Modulus Carbon Fibre
- Perfect match with Black Hole stem and saddle
- Amongst the lightest seatposts worldwide
- Aluminium collars allow for secure tilt and fore/aft saddle position
- Two Titanium bolts (Gold plated)
- Dimensions: 31,6 x 350mm Offset: 22mm
- OPTION: craddle compatible with regular railed saddles  
craddle compatible with Black Hole saddle
- Rider weight limit: 80kg
- **Weight: 150g.**



Black Hole seatpost / saddle combo: 215g.



BLACKHOLE

## ASPEN Ti. ASPEN

- Carbon Fibre reinforced molded base
- Titanium rails for Aspen Ti. and Cromo Steel rails for Aspen
- Leather surface with Kevlar reinforced wings
- Super Light foam filling
- Dimensions: 270 x 130mm
- Colour: Black and Grey with embroidered gold FRM logo
- Rider weight limit: 80kg
- **Weight: 188g. Aspen Ti. 215g. Aspen**



## SS-DB

- Sleeve for oversize diameters in light alloy protects carbon fibre seatposts from being damaged by pressure on the frame slot.
- Externally Double butted
- Inner dia.: 27,2mm
- OPTION: outer dia. 29,4-29,8-30,9-31,4-31,6-31,8-33,2mm
- **Weight: 20g. (31,6mm)**



Manual available on [www.frbike.com](http://www.frbike.com)

## SA-M BLACK HOLE

- Made in Italy at Carbocom under FRM licence
- Monocoque shell made from Carbon and Vectran Fibres
- Offers much more comfort than other carbon fibre saddles whose shells are bonded to tubular rails
- Excellent anatomical shape which will not deform over time
- Finish: matt clear coating
- Dimensions: 265 x 120mm
- Rider weight limit: 80kg
- **Weight: 65g. for MTB use**



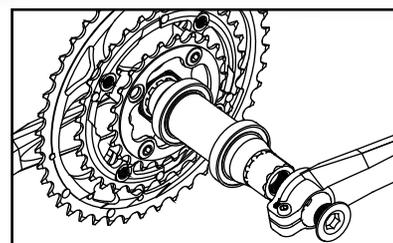
## SC32 Ti. - SC32 SC35 Ti. - SC35

- Made in Italy
- Asymmetric seatpost collars are a must for carbon fibre seatposts as they put less pressure on the frame slot
- SC32 is compatible with frames featuring 31.8mm seat tube
- SC35 is compatible with frames featuring 34,9 mm seat tube
- OPTION: Titanium (Gold plated) or Steel bolt  
Red, Black or Gold anodised and laser etched
- **Weight: 10g. SC32 Ti. 12g. SC32  
11g. SC35 Ti. 13g. SC35**



**CU2-M27 Integral Ti.**  
**CU2-M27 Integral**

- Made in Italy
- Integrated axle. CNC machined from Scandium light alloy
- 25mm Scandium light alloy axle for best torsion rigidity
- Double-seal bearings with improved dust seal for the bearing cup
- Black anodised spider
- Torx type ring fixing bolts in light alloy
- Pro rings: 44-32-22T polished, black anodized and laser etched
- BCD: 104/64 mm
- Chainline: 50 mm Q Factor: 163 mm
- BB Cups: BC-1,37" x 68 or 73 mm
- Rider weight limit 85kg
- OPTION: arm length 170-172,5-175 mm  
Titanium (gold plated) or Steel fixing bolts on the left arm  
HCB Enduro Bearings (2pcs) with Red anodised Cups
- **Weight with BB: CU2-M27 Ti. 705g. (175mm)**  
**CU2-M27 709g.**



ALSO AVAILABLE WITH BB-30 AXLE SYSTEM



**CU2-M18NS Integral Ti.**  
**CU2-M18NS Integral**

- Made in Italy
- Race proven: Team Swiss Power U23 World Champion Nino Shurter and Elite vice-champion Florian Vogel. Malè 2008 Worlds
- Integrated axle. CNC machined from Scandium light alloy
- 25mm dia. Scandium light alloy axle for best torsion rigidity
- Double-seal bearings with improved dust seal for the bearing cup
- CNC machined chainrings from 7075 alloy. GHA hard anodised
- Torx type ring fixing bolts
- Chainrings: 42-27T. (2x9) Perfect match for X-Country Racing with an 11-34 cogset, medium cage rear derailleur and road style front derailleur
- Chainline: 50 mm Q Factor: 163 mm
- BB Cups: BC-1,37" x 68 or 73 mm
- Rider weight limit: 85kg
- OPTION: arm length 170-172,5-175 mm  
Titanium (gold plated) or Steel bolts on the left arm  
HCB Enduro Bearings (2pcs) with Red anodised Cups
- **Weight with BB: CU2-M18NS Ti. 664g. (175mm)**  
**CU2-M18NS 668g.**

RING TO COG RATIO: 44-32-22 / 11-32				RING TO COG RATIO: 42-27 / 11-34			
11	4,00	x	x	11	3,80	x	
12	3,67	x	x	13	3,23	x	
14	3,14	2,28	x	15	2,80	1,93	
16	2,75	2,00	1,37	17	2,47	1,68	
18	2,44	1,77	1,22	20	2,10	1,35	
21	2,09	1,52	1,05	23	1,83	1,17	
24	1,83	1,33	0,92	26	1,61	1,04	
28	1,57	1,14	0,78	30	1,50	0,90	
32	x	1,00	0,69	34	x	0,79	Equivalent to 22x28

**KEY**

x Do no use

1,00 Duplications

1,00 Correct sequence



**CHAINRING FIXING BOLTS**

- Made in Italy
- CNC machined from high quality 7010 alloy
- Compatible with Torx 30 wrench
- Silver or Gold anodised



**PRO CHAINRINGS**

- Made in Italy
- CNC machined from high quality 7075 alloy
- Ramps and steel pins for optimal shifting precision
- Polished, anodised and laser etched.
- BCD 104/64mm 4 arm: 44T 32T 22T
- BCD 94mm 5 arm: 42T 29T
- XTR 2x9 (104-64mm): 42T 27T
- NS (No Spider) for FRM crankset: 42T 27T
- **Weight: 4 arm 44T 60 g. - 32T 30 g. - 22T 15 g.**  
**5 arm 42T 68 g. - 29T 24 g.**  
**NS (No spider) 42T 98g. - 27T 21g.**

# MTB

## RF-440 BiCarbon Ti. RF-440 Carbon

- Made in Italy
- All aluminium parts are 100% CNC machined from 7075 light alloy
- Carbon Fibre blades for weight reduction and shock absorption
- Steerer tube in 7075 light alloy (Carbon) or in Carbon fibre (BiCarbon)
- Height: 440 mm
- Supplied with Expander-Plug (Pro with Carbon and Team with Bicarbon)
- Post-Mount replaceable disc adaptor (Max 160mm rotor)
- Two Titanium (Bicarbon) or Steel (Carbon) bolts
- OPTION: replaceable V-Brake collars with light alloy studs different height on request
- Rider weight limit: 85kg
- **Weight: RF440 BiCarbon Disc 575g, 1,27 lb**  
**RF440 Carbon Disc 645g, 1,42 lb. V-Brake: +30g, 1oz**



**RF-440  
Carbon  
V-Brake**

## AIR-WAY 85SSV (3 MODELS)

- X-COUNTRY ★★★★★
- MARATHON ★★★★★☆

- Made in Italy
- The 85SSV ERD (Extreme Race Devotion) is the lightest and fastest X-Country Race fork available worldwide
- Race proven by Giant Italia, AMD Kona and Progress/FRM teams
- COMMON SPECIFICATIONS:
  - The air sprung fork features a coil negative spring, an Open Oil Bath damping system and a Stable Platform Valve
  - Open Oil-Bath: 150 cc of racing quality fork oil acts as damping element, lubricates all moving parts and cools down the temperature
  - SSV Stable Platform Valve: the fork works on impact to the wheel whilst resisting to impulses from the cyclist's weight shifting
  - No manual lock-out. The fork does not sag under the cyclist's weight
  - Tuning: a) Air Pressure b) Threshold c) Progressiveness d) Rebound
  - Post-Mount replaceable disc adaptor (Max 160mm rotor)
  - Most aluminium parts are CNC machined from 7075 light alloy
  - 30 mm dia. upper legs in Scandium light alloy. Hard anodised and Teflon coated
  - Lower legs are made in High Grade Carbon Fibre for weight saving and torsion strength
  - Double dust seal system for longer life and improved smoothness
  - Very low maintenance (one or two oil changes per year)
  - Rider weight limit: 85kg
- DIFFERENT SPECIFICATIONS See chart below
- Brace in Light Alloy or Carbon Fibre
- Bolts of brace & disc adaptor in Steel or Titanium (Gold plated)
- Steerer tube in Light Alloy (7075) or Carbon Fibre
- Expander-Plug Pro or Team
- OPTION: replaceable V-Brake collars with light alloy studs



**85SSV ERD  
Edition  
Disc**

**85SSV  
Carbon  
Disc**

**85SSV  
BiCarbon Ti.  
Disc**

	AIR-WAY 85SSV CARBON	AIR-WAY 85SSV BICARBON Ti.	AIR-WAY 85SSV ERD EDITION
Travel	85mm 3,35"	85mm 3,35"	85mm 3,35"
Weight	<b>1.260g, 2,78 lb Disc</b>	<b>1.190g, 2,62 lb Disc</b>	<b>1.150g, 2,53lb Disc</b>
V-Brake: +30g. 1oz	V-Brake: +30g. 1oz	V-Brake: +30g. 1oz	V-Brake: +30g. 1oz
Height	450mm 17,7"	450mm 17,7"	450mm 17,7"
Rake	40mm 1,57"	40mm 1,57"	40mm 1,57"
Upper Legs	30mm Scandium	30mm Scandium	30mm Scandium
Leg distance	107mm 4,2"	107mm 4,2"	107mm 4,2"
Steerer	L.Alloy (7075)	Carbon Fibre	Carbon Fibre
Lower legs	Carbon Fibre	Carbon Fibre	Carbon Fibre
Brace	L.Alloy (Black)	L.Alloy (Red)	Carbon Fibre
Bolts (6pcs)	Steel	Titanium	Titanium
Expander-Plug	Pro (Black cap)	Team (Red cap)	Team (Red cap)
Brake system	Disc Post-Mount V-Brake Optional	Disc Post-Mount V-Brake Optional	Disc Post-Mount V-Brake Optional



## FORK OIL

- Motul Fork Oil Factory Line. Light 5
- 200cc

## FORK PUMP

- High pressure metal pump



# MTB

## AIR-WAY 90SSV (2 MODELS)

X-COUNTRY ★★☆☆☆

MARATHON ★★★★★

- Made in Italy
- The lightest and more efficient fork available with 90mm (3,5") travel
- Race tested by top racers of the World Cup

### COMMON SPECIFICATIONS:

- The air sprung fork features a coil negative spring, an Open Oil Bath damping system and a Stable Platform Valve
- Open Oil-Bath: 160 cc of racing quality fork oil acts as damping element, lubricates all moving parts and cools down the temperature
- SSV Stable Platform Valve: the fork works on impact to the wheel whilst resisting to impulses from the cyclist's weight shifting
- No manual lock-out. The fork does not sag under the cyclist's weight
- Tuning: a) Air Pressure b) Treshold c) Progressiveness d) Rebound
- Post-Mount replaceable disc adaptor for 160mm rotor (AW2)
- Most aluminium parts are CNC machined from 7075 light alloy
- 30 mm dia. upper legs in Scandium light alloy. Hard anodised and Teflon coated
- Lower legs are made in High Grade Carbon Fibre for weight saving and torsion strength
- Double dust seal system for longer life and improved smoothness
- Very low maintenance (one or two oil changes per year)
- Rider weight limit: 85kg

### DIFFERENT SPECIFICATIONS See chart on the side

- Steerer tube in Carbon Fibre or Light Alloy (7075)
- Brace bolts in Titanium or Steel (Gold plated)
- Expander-Plug Team or Pro
- OPTION: Post-Mount adaptor for 180mm rotors (AW3)



## AIR-WAY 110SSV (2 MODELS)

MARATHON ★★★★★

TRAIL ★★★★★

- Made in Italy
- The lightest and more efficient Trail fork available with 110mm (4,3") travel

### COMMON SPECIFICATIONS:

- The air sprung fork features a coil negative spring, an Open Oil Bath damping system and a Stable Platform Valve
- Open Oil-Bath: 180 cc of racing quality fork oil acts as damping element, lubricates all moving parts and cools down the temperature
- SSV Stable Platform Valve: the fork works on impact to the wheel whilst resisting to impulses from the cyclist's weight shifting
- No manual lock-out. The fork does not sag under the cyclist's weight
- Tuning: a) Air Pressure b) Treshold c) Progressiveness d) Rebound
- Post-Mount replaceable disc adaptor for 180mm rotor (AW3)
- Most aluminium parts are CNC machined from 7075 light alloy
- 30 mm dia. upper legs in Scandium light alloy. Hard anodised and Teflon coated
- Lower legs are made in High Grade Carbon Fibre for weight saving and torsion strength
- Double dust seal system for longer life and improved smoothness
- Very low maintenance (one or two oil changes per year)
- Rider weight limit: 85kg

### DIFFERENT SPECIFICATIONS See chart on the side

- Steerer tube in Carbon Fibre or Light Alloy (7075)
- Brace bolts in Titanium or Steel (Gold plated)
- Expander-Plug Team or Pro
- OPTION: Post-Mount adaptor for 160mm rotors (AW2)

## AIR-WAY 100SSV 29" (2 MODELS)

MARATHON ★★★★★

TRAIL ★★★★★

- Made in Italy
- The lightest and more efficient Trail fork available for 29" wheels

### COMMON SPECS: same specs and weight as 110SSV except:

- a) Wheel travel: 100mm 4"
- b) Height: 505mm 19,88"
- c) Rake: 47mm 1,83"

### DIFFERENT SPECIFICATIONS See chart on the side

- Steerer tube in Carbon Fibre or Light Alloy (7075)
- Brace bolts in Titanium or Steel (Gold plated)
- Expander-Plug Team or Pro
- OPTION: Post-Mount adaptor for 160mm rotors (AW2)

	AIR-WAY 90SSV Carbon	AIR-WAY 110SSV Carbon	AIR-WAY 100SSV 29" Carbon	AIR-WAY 90SSV BiCarbon Ti.	AIR-WAY 110SSV BiCarbon Ti.	AIR-WAY 100SSV 29" BiCarbon Ti.
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Travel	90SSV: 90mm	110SSV: 110mm	100SSV 29": 100mm			
Weight	90SSV	1.400g. 3,08 lb		1.335g. 2,94 lb		
	110SSV	1.440g. 3,17 lb		1.360g. 2,99 lb		
Height	90SSV	460mm 18,1"		460mm 18,1"		
	110SSV	480mm 19,8"		480mm 19,8"		
Rake	90SSV	43mm 1,7"		43mm 1,7"		
	110SSV	45mm 1,85"		45mm 1,85"		
Upper Legs		30mm Scandium		30mm Scandium		
Leg distance		130mm 5,12"		130mm 5,12"		
Steerer		L.Alloy (7075)		Carbon Fibre		
Lower legs		Carbon Fibre		Carbon Fibre		
Brace		L.Alloy (Black)		L.Alloy (Red)		
Brace Bolts (4pcs)		Steel		Titanium		
Expander-Plug		Pro (Black cap)		Team (Red cap)		
Brake system		Disc Post-Mount		Disc Post-Mount		

# MTB

## TUBELESS SEALANT

- Made in Germany
- Used by top racers in the World Cup
- Converts tube tires into Tubeless with RRS Rim Strips or White Tape
- Seals any UST tire
- If used correctly, it can seal holes up to 6mm
- It can be used all year round, even in sub-zero conditions
- It does not throw the wheel out of balance as most gel-type sealants do
- 50 to 80cc of sealant to seal 1,9" - 2,2" tyres (26")
- Available in 500 cc (pint) or 1000cc (quart) bottles



FRM Tubeless



## RRS RIM STRIP (3 MODELS)

- Made in Italy
- To convert wheelsets for tube to Tubeless, together with the FRM Spark Air Valve
- Allows you to use UST tires with or without sealant as well as regular tires with sealant
- The set of two rim strips is supplied with reinforced tape and Spark Air Valves

### X-COUNTRY

- Adaptable to 26" X-Country rims, 21,5-25mm wide (strip width 25mm)
- **Weight per wheel: 62g. (air valve included)**

### FREERIDE

- Adaptable to rims 28-32mm wide (strip width 33mm)
- **Weight per wheel: 82 g. (air valve included)**

### DOWNHILL

- Adaptable to rims 34-38mm wide (strip width 38mm)
- **Weight per wheel: 100 g. (air valve included)**

## WHITE TAPE

- Made in Germany
- To convert normal wheelsets for tube to Tubeless together with the Spark Air Valve (5m tape roll)
- Compatible with Mavic 517, 717, American Classic 330, DT 4,1 and 4,2, Notubes Olympic and ZTR 355, FRM XMD rims
- Correct functioning cannot be guaranteed with other types of rim. The RRS Rim Strip is highly recommended in this case
- **Weight per wheel: 10g. (air valve included)**



## SPARK AIR VALVE with removable core

- For use with White Tape or RRS rim strip to transform traditional tube wheels into Tubeless
- Compatible with Mavic, Bontrager or Shimano XTR UST rims
- Presta type with removable core

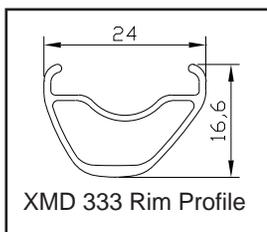
## SYRINGE

- Makes application of the sealant quick and easy
- Allows for easy measurement of the quantity of liquid inserted into each wheel
- It can also be used to remove the sealant from the wheel
- Compatible with Shraeder or Presta valves with removable core)



## XMD 333 DISC RIM 26"

- Made in Italy
- Extruded from Scandium Light alloy.
- Welded joint
- Stainless Steel eyelets
- Worlds lightest rim with eyelets at 320 grams, the XMD 333 rim has been designed to be compatible with standard tires as well as UST tires
- Asymmetric profile for better end even spoke tension
- Supplied Tubeless Ready (White Tape and Spark Air Valves)
- Compatible with either UST or regular tires with tubes or without tubes when transformed to tubeless
- Width: 24mm
- ERD: 538 mm
- OPTION: finish Black or Red anodised
  - holes 28 (front only) 32h (front & rear)
  - Red is available in 32 only
- Rider weight limit: 80kg
- **Weight: 315/320g. + 15g. with White Tape and Spark Air Valve**



# MTB & ROAD

## HC B DERAILLEUR PULLEY

- Made in Italy
- Rear derailleur pulley in Delrin® & Enduro Ceramic Bearing 7x19x6mm
- OPTION: compatible with Shimano XRT or Sram X-0 rear der.
- **Weight: 26g. set of 2pcs**
- Weight reference X-0: 32g. (6g saving)



## ENDURO CERAMIC BEARINGS

- HCB Ceramic Balls and 2RS shields. No warranty
- CH 697 LLB 7 x 19 x 6mm (Rear derailleur pulley)
- CH 699 LLB 9 x 20 x 6mm (Road Front FRM Hub)
- CH 6901 LLB 12 x 24 x 6mm (Road or MTB Rear FRM Hub)
- CH 6805 LLB 25 x 37 x 7mm (Integrated BB)



## SPECIAL HARDWARE

### TITANIUM 6AL /4V

- M5x10 Torx25 Disc fixing (Gold plated)
- M5 x 12 Allen (Gold plated)
- M5 x 15 Allen (Gold Plated)
- M6 x 18 Allen (Gold plated)
- M6 x 35 Allen
- M6 x 50 Allen
- M7 x 35 Allen

### LIGHT ALLOY 7075

- M5 x 10 Torx 25 (Gold anodised)
- M5 x 15 Allen
- M6 x 20 Allen
- M6 x 25 Allen
- M8 x 20 Cone head



## DISC BRAKE PADS

FRM disc pads. Shimano XT-XTR compatible (BR-M975/966/965)

- Metallic (Sintered) compound with steel backing (22g. set)
  - Semi-metallic compound with steel backing (18g. set)
  - Semi-metallic compound with light alloy backing (9gr set)
- FRM disc pads. Avid Juicy compatible
- Semi-metallic compound with steel backing



## RIM BRAKE PADS

### ROAD

- CL2P Multicondition compound pads 54mm long. SH compatible. 23,4g. set of 4 pcs

### MTB

- DP4P Multicondition compound pads 72mm long. SH compatible



## MTB SADDLE BAG

- Made of four-panel polyethylene shell, attached to the seat with reinforced velcro
- A sealed PVC pouch slips inside the outer shell. Expandable
- Dimensions: 16x9,5x7 cm
- Volume: 0,5 lt
- Material: Polyester 600 gommato



## ROAD SADDLE BAG

- Dimensions: 12x6,5x4 cm
- Volume: 0,3 lt
- Material: Trevira 210



## CHAIN PROTECTOR

- Real Carbon Fibre
- 3M adhesive



## WHEELBAG

- For two Road or MTB wheels



## WATER BOTTLE

- H2O 500cc
- Large mouth
- Transparent



# MTB & ROAD

## MORGAN BLUE / FRM LUBE & CLEAN

- **EXTRA DRY LUBE** for MTB-Cyclocross 400cc - 125 cc
- High quality silicone spray for bike applications to increase service time and to reduce friction
- Highly waterproof repellent. Repels dirt, dust and moisture
- Costant protecting properties in cold and hot conditions.
- Penetrates fast in the chain. Prevents corrosion

### SYN LUBE Special for Road 125 cc

- Contains extra adhesive & syntetic additives to obtain a reduction of friction, a smoother gear shift, a longer lubrication time. Efficient for a long period
- Excellent adhesion on metallic surfaces, does not drain from the chain.
- Resists high speed sling-off. Prevents wear and extends life of lubricated parts

### COMPETITION CAMPA GREASE 200 cc - 1000 cc

- Fortified with polymers and selected additives to obtain an extreme high gliding capacity. Extreme adhesion to metallic surfaces.
- High mechanical stability. Protects against corrosion. Prevents premature wear.
- Allows longer time intervals between lubrication services.
- Ideally suited for use in the hubs as it works well in grease injection systems

### BRAKE CLEANER 400cc

- Expecially developed to clean disc brakes

### BIO CLEANER 1000 cc

- Active cleaner-degreaser for the chain and gears
- Regular application prevents the deterioration of the chain and the gear system
- Ensures higher performance, smother shifts and longer drivetrain life.
- 97% Biodegradable. Rubber and plastic safe



Download learning guides form our web site

## KENDA TIRES

### MTB

#### NEVEGAL (4 models) Jhon Tomac Signature Series

- Folding bead tire with single ply and DTC compound
- Winner of the tire test of Mountain Bike Action for two years

Compound	Size	Bead	TPI	PSI	Weight
Lite DTC	26" x 1,95"	Folding	120	30-50	545g.
DTC	26" x 2,1"	Folding	120	30-50	610g.
DTC	26" x 2,35"	Folding	120	30-50	695g.
UST	26" x 2,1"	Folding	120	30-50	780g.

#### KARMA (2 models)

- Small Square low profile knobs accentuate this treat pattern for cross country rides and races
- Can be used s a front or rear tire. Best when used as a set
- Large air volume casing for plenty of comfort and float

Compound	Size	Bead	TPI	PSI	Weight
DTC	26" x 2,0"	Folding	120	35-80	450g.
UST	26" x 1,95"	Folding	120	30-50	665g.

#### SMALL BLOCK 8 (2 Models) Jhon Tomac Signature Series

- Fast accelerating, hard pack cross-country racing tire
- Numerous knobs provide multiple contact points with the ground
- Lightweight knobby tire with semi-slick speed

Compound	Size	Bead	TPI	PSI	Weight
DTC	26" x 1,95"	Folding	120	30-80	420g.
DTC	26" x 2,1"	Folding	120	30-80	575g.

#### EXCAVADOR Eric Carter Signature Series

- Directional tread where every knob has been designed for optimal performance
- Single ply construction and DTC compound for greater tread life and excellent comirng grip

Compound	Size	Bead	TPI	PSI	Weight
DTC	26" x 1,95"	Folding	120	40-65	

#### KOZMIC LITE II

- Hard pack semi-slick design that retains traction like a knobby
- Multi-use tread design appropriate for racing and casual riding

Compound	Size	Bead	TPI	PSI	Weight
L3R Pro	26" x 2,0"	Folding	120	40-80	430g.

## ROAD

#### KRITERIUM

- Grooved slick design
- Iron Cloack protection
- L3R Pro rubber compound

Compound	Size	Bead	TPI	PSI	Weight
L3R Pro	700 x 23	Folding	120	125	195g.



# MTB & ROAD

BUY THEM FROM THE E-COMMERCE SECTION OF WWW.FRMBIKE.COM

## APPAREL



### JERSEY

S-M-L-XL-XXL



### WINTER LONG SLEEVE

S-M-L-XL-XXL

### SHORTS

S-M-L-XL-XXL

### WINTER TROUSERS

S-M-L-XL



### T-SHIRT

White cotton  
S-M-L-XL



### POLO

Orange cotton with embroided logo  
S-M-L-XL

### SWEATER

Black cotton with printed  
orange logo  
S-M-L-XL



### SOCKS (Coolmax)

36/39 40/42 43/46



# MTB

## 8HP TEAM 8HP PRO

- Built in Italy
- Tubeset: Easton Ultralite Race
- Rear Stays: S-Shaped in light alloy
- Dropouts: CNC 3D machined from light alloy
- Assembly: TIG welded by hand
- Headset Tube: 1 1/8" Not Integrated
- Bottom Bracket: BSA 68mm
- Seatpost Dia.: 27,2mm
- Derailleur Dia: 31,8mm
- Sizes: See on page 30
- Brake compatibility: Disc only
- Suggested Fork Travel: 80-100mm (3" - 3,5")
- Colours: Titan Anodised

### INCLUDED ACCESSORIES

- 10HP Team Headset: FRM C-Set Team
- Seatpost Collar: FRM SC32 Ti.
- Chainstay protector: FRM Carbon Fibre

- 10HP Pro Headset: FRM C-Set Pro
- Seatpost Collar: FRM SC32

- Frame weight: 1.230g. (19" without headset)

X-COUNTRY ★★★★★  
MARATHON ★★★★★



CNC Dropouts



8HP frame  
Weight 1.230g. 2,71 lb (19")



Externally double-butted head tube



8HP XCR2  
Bike weight 8,2kg 18,11lb



- Available as:
- 8HP XCR1: 8,0kg 17,7lb
  - 8HP XCR2: 8,2kg 18,11lb
  - 8HP XCR3: 9,0kg 19,9lb
  - 8HP XC1
  - 8HP XC2

Frame dimension and bike composition on page 30

# MTB

## 10HP TEAM 10HP PRO

- Designed and built in Italy
- Suspension System: Semi-pivotless
- Travel (Shock/Wheel/Ratio): 37 mm/65 mm-2,6"/1:1,75
- Tubeset: Easton Ultralite Race
- Dropouts: CNC 3D
- Bearings: 2 rollers & 4 sealed 2RS ball bearings
- Bottom Bracket: BSA 68mm
- Seatpost Dia.: 27,2mm
- Derailleur Dia.: 31,8mm (Down-Pull type)
- Sizes: See on page 30
- Finish: Titan anodised main frame with Black suspension
- Suggested Fork Travel: 90 -100mm (3,5"- 4")
- Brakes: Disc Only

### INCLUDED ACCESSORIES

- 10HP Team: Ergal/Titanium Bolt Kit (save 45g.)  
Shok DT Swiss XR Carbon (146g.)  
FRM C-Set Team Headset (98g.)  
FRM SC32 Ti. Seat Collar (11g.)
- 10HP Pro: Rock Shox Monarch (205g.)  
FRM C-Set Pro Headset (102g.)  
FRM SC32 Seat Collar (13g.)
- **Frame Weight: 10HP Team: 2.000g 4,4lb**  
**10HP Pro : 2.100g 4,7lb**

X-COUNTRY ★★☆☆  
MARATHON ★★★★★



10HP Team frame.  
Weight 2.000g, 4,45 lb (17,5")

Designed by Franco Ricci Mingani  
100% manufactured in Italy



All suspension pivot points rotate on sealed roller and ball bearings

**SEMI-PIVOTLESS:** the 10HP suspension has been designed to enhance the pedal efficiency, slightly compromising the total efficiency of the suspension. This short travel suspension is designed for X-country racers who need light-weight, lightning-fast accelerating machines, with the lateral rigidity and the nimble handling of hardtails, but bob-free when pedalling and with better impact absorption of their rigid counterparts

All suspension components are CNC machined from solid billets

### Mountain Bike Action USA. August 2007:

At under 22 pounds, the 10HP accelerates as well as the lightest hardtailmade, but with a noticeable improvement in confort and handling. Impressive, in a word, was our impression of the 10HP's performance. The 10HP offers a beautiful and extremely competitive alternative to the copycat bikes that populate the first three rows of elite-level X-Country starting grid



10HP Team XCR1  
Bike weight 9,2kg 20.3lb



- Available as:
- 10HP Team XCR1: 9,2kg 20,3lb
  - 10HP XCR2: 9,3kg 20,5lb
  - 10HP XCR3: 10,0kg 22,0lb
  - 10HP XC1
  - 10HPXC2

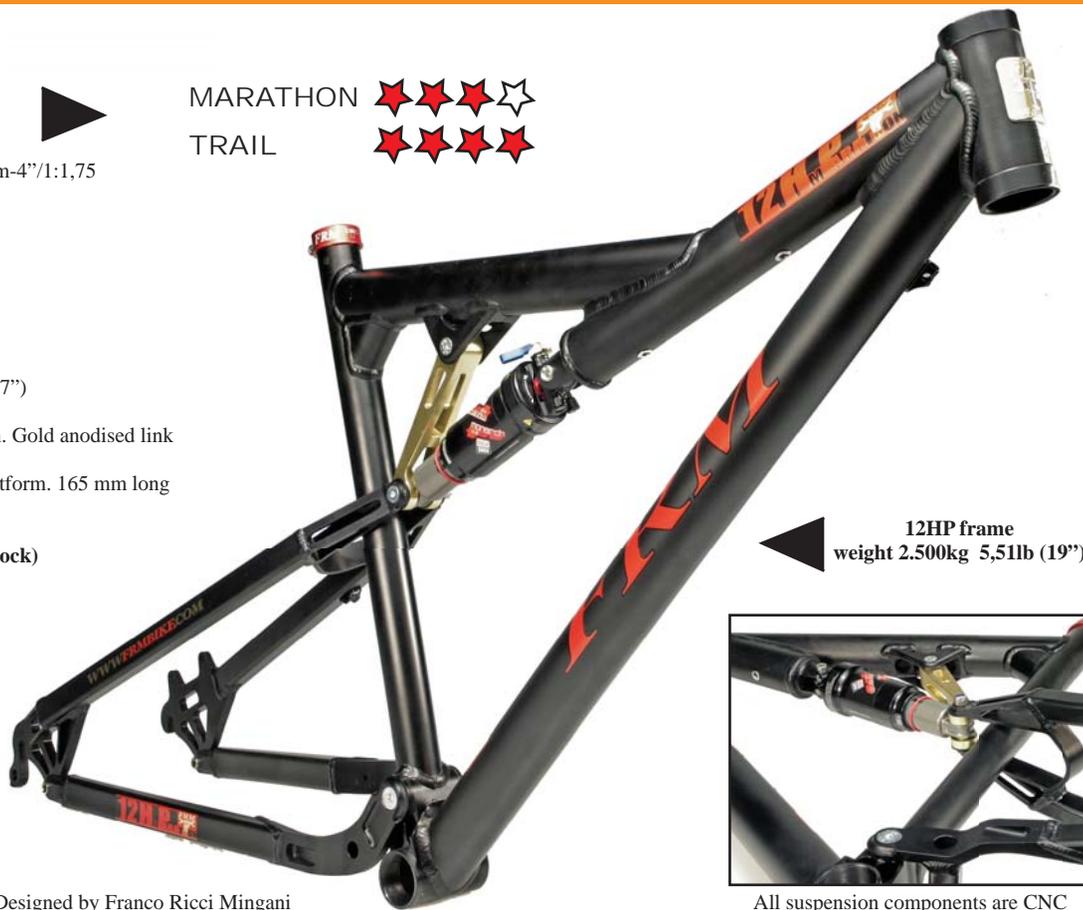
Frame dimension and bike composition on page 30

# MTB

## 12HP

- Built in Italy
  - Suspension System: Four-Bar con Horst Link
  - Travel (Shock/Wheel/Ratio): 37 mm/100 mm-4"/1:1,75
  - Suspension Rate: 2,7
  - Tubeset: Easton Ultralite
  - Dropouts: CNC 3D
  - Bearings: 4 rollers
  - Bottom Bracket: BSA 68mm
  - Seatpost Dia.: 27,2mm
  - Derailleur Dia.: 31,8mm (Down-Pull type)
  - Sizes: See on page 30
  - Suggested Fork Travel: 100- 120mm (4" – 4,7")
  - Brakes: Disc only
  - Finish: Black anodised frame and suspension. Gold anodised link
- INCLUDED ACCESSORIES**
- Rear Shock: Rock Shox Monarch Stable Platform. 165 mm long
  - FRM C-Set Pro Headset
  - FRM SC32 Seat Collar
  - **Frame Weight: 2.500g, 5,5lb (with rear shock)**

MARATHON   
TRAIL 



12HP frame  
weight 2.500kg 5,51lb (19")



All suspension pivot points rotate on sealed roller and ball bearings

Designed by Franco Ricci Mingani  
100% manufactured in Italy



All suspension components are CNC machined from solid billets

### PEDAL-FEEDBACK or BRAKE-INDUCED FEEDBACK

These negative features typical of many other suspension systems are eliminated by carefully optimizing pivot placements and designing the suspension with a near-perfect vertical axle path. The distance between the BB and the rear wheel remains virtually constant when the suspension compresses

### NEAR-VERTICAL AXLE PATH

This Four-Bar suspension with Horst Link is not compressed or extended by the pedal force nor is it inhibited by the pedal stroke. This is the most efficient way to design suspensions as the pedal force does not move the suspension but is only directed to move you forward. The pedal stroke is smooth and not disrupted as the suspension is fully active. This means that the suspension is free to compress and rebound in an uninhibited way, under all conditions

### BRAKE SQUAT

Braking influence is fully eliminated with the use of Horst Links. This configuration prevents the brake caliper from rotating relative to the wheel, so that the seatstays remain at a constant angle relative to the frame when the suspension compresses

12HP XCR3  
Bike weight 10,5kg 23,15lb



- Available as:
- 12HP XCR1: 9,8kg 21,6lb
  - 12HP XCR2: 10,0kg 22,0lb
  - 12HP XCR3: 10,5kg 23,2lb
  - 12HP XC1
  - 12HP XC2

Frame dimension and bike composition on page 30

# BIKE SPECIFICATIONS

## 8HP XCR1

- Fork	FRM Air-Way 85SSV ERD Edition
- Headset	FRM C-Set Team (Black / Red Cap)
- Crankset	FRM CU2-M18NS HCB Ti. 42-27 or 3x9
- Shifters	SRAM X-0
- Rear Der.	SRAM X-0 HCB P. (2x9 Medium Cage)
- Front Der.	FSA Road (2x9) or SRAM X-9 (3x9)
- Cassette	SRAM PG990 11-34
- Chain	SRAM PC991
- Handlebar	FRM Web-Bar 32 Carbon+Red Safe-Bar
- Grips	FRM Foam
- Stem	FRM Web-Stem CF Ti. (Black/Red Cap)
- Brakes	FRM DBR250 (Red)
- Discs	FRM Sawrotor II 160-140
- Wheelset	FRM SP-M21 XMD Aerolite (Red)
- Sealant	FRM Tubeless 500cc (Pint)
- Tires	Kenda Karma DTC 2.0"
- Seatpos	FRM ST-M20 Carbon Ti. (Red Cradle)
- Saddle	FRM Black Hole MTB

## 10HP XCR1

- Fork	FRM Air-Way 90SSV BiCarbon Ti. (Red)
- Headset	FRM C-Set Team (Black / Red Cap)
- Crankset	FRM CU2-M18NS HCB Ti. 42-27 or 3x9
- Shifters	SRAM X-0
- Rear Der.	SRAM X-0 HCB P. (2x9 Medium Cage)
- Front Der.	FSA Road (2x9) or SRAM X-9 (3x9)
- Cassette	SRAM PG990 11-34
- Chain	SRAM PC991
- Handlebar	FRM Web-Bar Enduro Carbon+Safe-Bar
- Grips	FRM Foam
- Stem	FRM Web-Stem CF Ti. (Black/Red Cap)
- Brakes	FRM DBR250 (Red)
- Discs	FRM Sawrotor II 160-140
- Wheelset	FRM SP-M21 XMD Aerolite (Red)
- Sealant	FRM Tubeless 500cc (Pint)
- Tires	Kenda Small Block 8 1,95"
- Seatpos	FRM ST-M20 Carbon Ti. (Red Cradle)
- Saddle	FRM Black Hole MTB

## 12HP XCR1

- Fork	FRM Air-Way 110SSV BiCarbon Ti. (Red)
- Headset	FRM C-Set Team (Black / Red Cap)
- Crankset	FRM CU2-M18NS HCB Ti. 42-27 or 3x9
- Shifters	SRAM X-0
- Rear Der.	SRAM X-0 HCB P. (2x9 Medium Cage)
- Front Der.	FSA Road (2x9) or SRAM X-9 (3x9)
- Cassette	SRAM PG990 11-34
- Chain	SRAM PC991
- Handlebar	FRM Web-Bar Enduro Carbon+Safe-Bar
- Grips	FRM Foam
- Stem	FRM Web-Stem CF Ti. (Black/Red Cap)
- Brakes	FRM DBR250 (Red)
- Discs	FRM Sawrotor II 160-140
- Wheelset	FRM SP-M21 XMD Aerolite (Red)
- Sealant	FRM Tubeless 500cc (Pint)
- Tires	Kenda Nevegal 2,1"
- Seatpos	FRM ST-M20 Carbon Ti. (Red Cradle)
- Saddle	FRM Black Hole MTB

## 8HP XCR2

FRM Air-Way 85SSV BiCarbon Ti. (Red B.)
FRM C-Set Team (Black / Red Cap)
FRM CU2-M18NS Ti. 42-27 or 3x9
SRAM X-0
SRAM X-0 (2x9 Medium Cage)
FSA Road (2x9) or SRAM X-9 (3x9)
SRAM PG990 11-34
SRAM PC991
FRM Web-Bar 32 Carbon+Red Safe-Bar
FRM Foam
FRM Web-Stem 32 Ti. (Black/Red Cap)
FRM DBR250 (Gold)
FRM Sawrotor II 160-140
FRM FL-M21 XMD (Gold Hubs)
FRM Tubeless 500cc (Pint)
Kenda Karma DTC 2.0"
FRM ST-M10 Ti. 27,2x350 (Red Cradle)
FRM Aspen Ti.

## 10HP XCR2

FRM Air-Way 90SSV BiCarbon Ti. (Red)
FRM C-Set Team (Black / Red Cap)
FRM CU2-M18NS Ti. 42-27 or 3x9
SRAM X-0
SRAM X-0 (2x9 Medium Cage)
FSA Road (2x9) or SRAM X-9 (3x9)
SRAM PG990 11-34
SRAM PC991
FRM Web-Bar Enduro Carbon+Safe-Bar
FRM Foam
FRM Web-Stem 32 Ti. (Black/Red Cap)
FRM DBR250 (Gold)
FRM Sawrotor II 160-140
FRM FL-M21 XMD (Gold Hubs)
FRM Tubeless 500cc (Pint)
Kenda Small Block 8 1,95"
FRM ST-M10 Ti. 27,2x350 (Red Cradle)
FRM Aspen Ti.

## 12HP XCR2

FRM Air-Way 110SSV BiCarbon Ti. (Red)
FRM C-Set Team (Black / Red Cap)
FRM CU2-M18NS Ti. 42-27 or 3x9
SRAM X-0
SRAM X-0 (2x9 Medium Cage)
FSA Road (2x9) or SRAM X-9 (3x9)
SRAM PG990 11-34
SRAM PC991
FRM Web-Bar Enduro Carbon+Safe-Bar
FRM Foam
FRM Web-Stem 32 Ti. (Black/Red Cap)
FRM DBR250 (Gold)
FRM Sawrotor II 160-140
FRM FL-M21 XMD (Gold Hubs)
FRM Tubeless 500cc (Pint)
Kenda Nevegal 2,1"
FRM ST-M10 Ti. 27,2x350 (Red Cradle)
FRM Aspen Ti.

## 8HP XCR3

FRM Air-Way 85SSV Carbon (Black B.)
FRM C-Set Pro (Black)
FRM CU2-M18NS 42-27 or 3x9
SRAM X-9
SRAM X-9 (2x9 Medium Cage)
FSA Road (2x9) or SRAM X-7 (3x9)
SRAM PG980 11-34
SRAM PC971
FRM Web-Bar 32
SRAM
FRM Web-Stem 32 (Black)
FRM DBR300 (Red)
FRM Sawrotor 160-160
FRM FL-M12 XMD (All Black)
FRM Tubeless 500cc (Pint)
Kenda Karma DTC 2.0"
FRM ST-M10 27,2x350 (Black)
FRM Aspen

## 10HP XCR3

FRM Air-Way 90SSV Carbon (Black B.)
FRM C-Set Pro (Black)
FRM CU2-M18NS 42-27 or 3x9
SRAM X-9
SRAM X-9 (2x9 Medium Cage)
FSA Road (2x9) or SRAM X-7 (3x9)
SRAM PG980 11-34
SRAM PC971
FRM Web-Bar 32 Enduro
SRAM
FRM Web-Stem 32 (Black)
FRM DBR300 (Red)
FRM Sawrotor 160-160
FRM FL-M12 XMD (All Black)
FRM Tubeless 500cc (Pint)
Kenda Small Block 8 1,95"
FRM ST-M10 27,2x350 (Black)
FRM Aspen

## 12HP XCR3

FRM Air-Way 110SSV Carbon (Black B.)
FRM C-Set Pro (Black)
FRM CU2-M18NS 42-27 or 3x9
SRAM X-9
SRAM X-9 (2x9 Medium Cage)
FSA Road (2x9) or SRAM X-7 (3x9)
SRAM PG980 11-34
SRAM PC971
FRM Web-Bar 32 Enduro
SRAM
FRM Web-Stem 32 (Black)
FRM DBR300 (Red)
FRM Sawrotor 160-160
FRM FL-M12 XMD (All Black)
FRM Tubeless 500cc (Pint)
Kenda Nevegal 2,1"
FRM ST-M10 27,2x350 (Black)
FRM Aspen

## 8HP XC1

Rock Shox Recon Race Solo Air
FRM C-Set Pro (Black)
Truvativ Stylo OCT Team 44-32-22
SRAM X-9
SRAM X-9
SRAM X-7
SRAM PG980 11-34
SRAM PC971
Truvativ Stylo Team Riser
SRAM
Truvativ Team
Avid Juicy 5
Avid 160-160
DT Swiss X1800 Disc
Kenda Tubes
Kenda Karma DTC 2.0"
Truvativ Team 27,2x350
FRM Aspen

## 10HP XC1

Rock Shox Recon Race Solo Air
FRM C-Set Pro (Black)
Truvativ Stylo OCT Team 44-32-22
SRAM X-9
SRAM X-9
SRAM X-7
SRAM PG980 11-34
SRAM PC971
Truvativ Stylo Team Riser
SRAM
Truvativ Team
Avid Elixir R
Avid 160-160
DT Swiss X1800 Disc
Kenda Tubes
Kenda Small Block 8 2,1"
Truvativ Team 27,2x350
FRM Aspen

## 12HP XC1

Rock Shox Recon Race Solo Air
FRM C-Set Pro (Black)
Truvativ Stylo OCT Team 44-32-22
SRAM X-9
SRAM X-9
SRAM X-7
SRAM PG970 11-34
SRAM PC971
Truvativ Stylo Team Riser
SRAM
Truvativ Team
Avid Elixir R
Avid 185-160
DT Swiss X1800 Disc
Kenda Tubes
Kenda Nevegal 2,1"
Truvativ Team 27,2x350
FRM Aspen

## 8HP XC2

Rock Shox Tora 319 U-Turn
FRM C-Set Pro (Black)
Truvativ Firex 3.3 44-32-22
SRAM X-7
SRAM X-7
SRAM X-7
SRAM PG950 11-34
SRAM PC951
Truvativ Stylo Race Riser
SRAM
Truvativ XR
Avid Juicy 3
Avid 160-160
DT Swiss X1800 Disc
Kenda Tubes
Kenda Karma DTC 2.0"
Truvativ XR 27,2x350
FRM Aspen

## 10HP XC2

Rock Shox Tora 319 U-Turn
FRM C-Set Pro (Black)
Truvativ Firex 3.3 44-32-22
SRAM X-7
SRAM X-7
SRAM X-7
SRAM PG950 11-34
SRAM PC951
Truvativ Stylo Race Riser
SRAM
Truvativ XR
Avid Juicy 3
Avid 160-160
DT Swiss X1800 Disc
Kenda Tubes
Kenda Small Block 8 2,1"
Truvativ XR 27,2x350
FRM Aspen

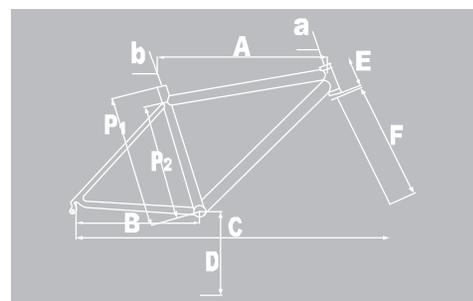
## 12HP XC2

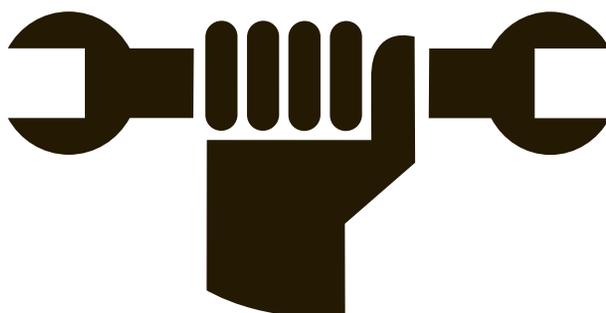
Rock Shox Tora 319 U-Turn
FRM C-Set Pro (Black)
Truvativ Firex 3.3 44-32-22
SRAM X-7
SRAM X-7
SRAM X-7
SRAM PG950 11-34
SRAM PC951
Truvativ Stylo Race Riser
SRAM
Truvativ XR
Avid Juicy 3
Avid 185-160
DT Swiss X1800 Disc
Kenda Tubes
Kenda Nevegal 2,1"
Truvativ XR 27,2x350
FRM Aspen

8HP	P1	P2	A	B	C	D	E	F	a	b
17,5"	410	360	560	418	1.040	290	95	450	70,5°	74,0°
19"	460	410	585	418	1.060	290	110	450	70,0°	73,5°
20,5"	510	460	610	418	1.085	290	135	450	70,5°	73,5°

10HP	P1	P2	A	B	C	D	E	F	a	b
17,5"	410	360	560	415	1.040	312	95	460	70,5°	73,5°
19"	460	410	585	415	1.060	312	110	460	70,0°	73,5°
20,5"	510	460	610	415	1.085	312	135	460	70,5°	73,5°

12HP	P1	P2	A	B	C	D	E	F	a	b
17,5"	410	410	560	430	1.050	320	95	480	70°	73,3°
19"	460	410	585	430	1.075	320	110	480	69,5°	73°
20,5"	510	460	610	430	1.100	320	135	480	69,5°	73°





Made in Italy

#### Warranty

FRM products are guaranteed against any defects for a period of 2 years from the date of purchase by the first owner, registered in a dealer shop. **OBLIGATIONS:** In case of defects, FRM pledge to replace or repair, at their discretion, the part recognised as defective. To be accepted, the rider compliant must be communicated to FRM through the dealer/importer after his own control. If FRM after sales checking reveals that the damage is due to one of the reasons mentioned in the following paragraph, the replacement is no longer accepted and the defective item is sent back to the plaintiff who supports the shipping fees. **LIMITATIONS:** The guarantee does not cover damage resulting from transportation, warehousing, accidents, negligence, impact or falls, non-compliance with the information in the instruction manuals, assembly errors, assembly using non-compatible products, bad maintenance, modifications or alterations to the product. The guarantee does not cover parts and components subject to normal wear and tear such as ball-bearings, bushings, seals, brake pads, disc rotors, etc.

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