USER MANUAL

ATLAS FRAME

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TABLE OF CONTENTS

INTRODUCTION

Thank you for choosing the PORTE Atlas frame. This manual will guide you through the proper installation, setup, and use of your frame to ensure optimal performance, safety, and durability.

SYMBOLS USED

The user manual uses the following symbols:

CAUTION
Indicates a hazardous situation which, if the safety instructions are not followed, may lead to minor or moderate injury and/or damage to the product or the environment.

WARNING
Indicates a hazardous situation which, if the safety instructions are not followed, may lead to minor or serious injury or death and/or serious damage to the product or the environment.

DANGER
Indicates a hazardous situation which, if the safety instructions are not followed, will lead to serious injury or death.

INTENDED USE

The products are only to be used for mountain bike cross-country ASTM level 1, 2 and 3.

PROHIBITED USE

It is prohibited to use the product for any other purpose than those indicated in the manual, the safety indicates, or other safety documents related to this document.

ISO TESTED

RIDEPORTE products are tested and approved by EFBE PRÜFTECHNIK GmbH for a maximum total weight of 100kg (unless stated otherwise) for ASTM XC-MTB categories Level 1, 2 and 3.

TEST PROGRAMS AT EFBE

- Pedaling forces (ISO 4210-5:2014/4.3/EN 15194:2017, 4.3.7.4/TTF1)
- Vertical forces (ISO 4210-5:2014/4.5/ EN 15194:2017, 4.3.7.4/TTF2)
- Horizontal forces (ISO 4210-5:2014/4.5/ EN 15194:2017, 4.3.7.4/TTF3)
- Impact test falling mass (ISO 4210-5:2014/4.1/ EN 15194:2017, 4.3.7.2/TTF3)
- Fatigue test frame rear wheel axle load EFBE: 1800N / 100 000 cycles

ASTM LEVEL 1

This is a set of conditions for the operation of a bicycle on a regular paved surface where the tires are intended to maintain ground contact.

ASTM LEVEL 2

This is a set of conditions for the operation of a bicycle that includes Level 1 conditions as well as unpaved and gravel roads and trails with moderate grades. In this set of conditions, contact with irregular terrain and loss of tire contact with the ground may occur. Drops are intended to be limited to 15cm (6”) or less.

ASTM LEVEL 3

This is a set of conditions for operation of a bicycle that includes Level 1 and 2 conditions as well as rough trails, rough unpaved roads, and rough terrain and unimproved trails that require technical skills. Jumps and drops are intended to be less than 61cm (24”).

ASTM LEVEL 4

This is a set of conditions for operation of a bicycle that includes Level 1, 2, and 3 conditions and downhill grades on rough trails at speeds less than 40 km/h (25 mph), or both. Jumps are intended to be less than 122cm (48”). **RIDEPORTE products are NOT tested and approved for ASTM level 4.**

FRAME

The PORTE Atlas is a state-of-the-art carbon hardtail frame engineered for modern XC racing. Designed with progressive geometry and optimized for a 120 mm suspension fork, it provides ample clearance for tires up to 2.4”.

The rear triangle features **FlexTail SL** technology, delivering a balance of high lateral stiffness and vertical compliance for improved comfort and control. Drivetrain compatibility has been expanded to support front chainrings up to 38T, with 32T as the minimum recommended size.

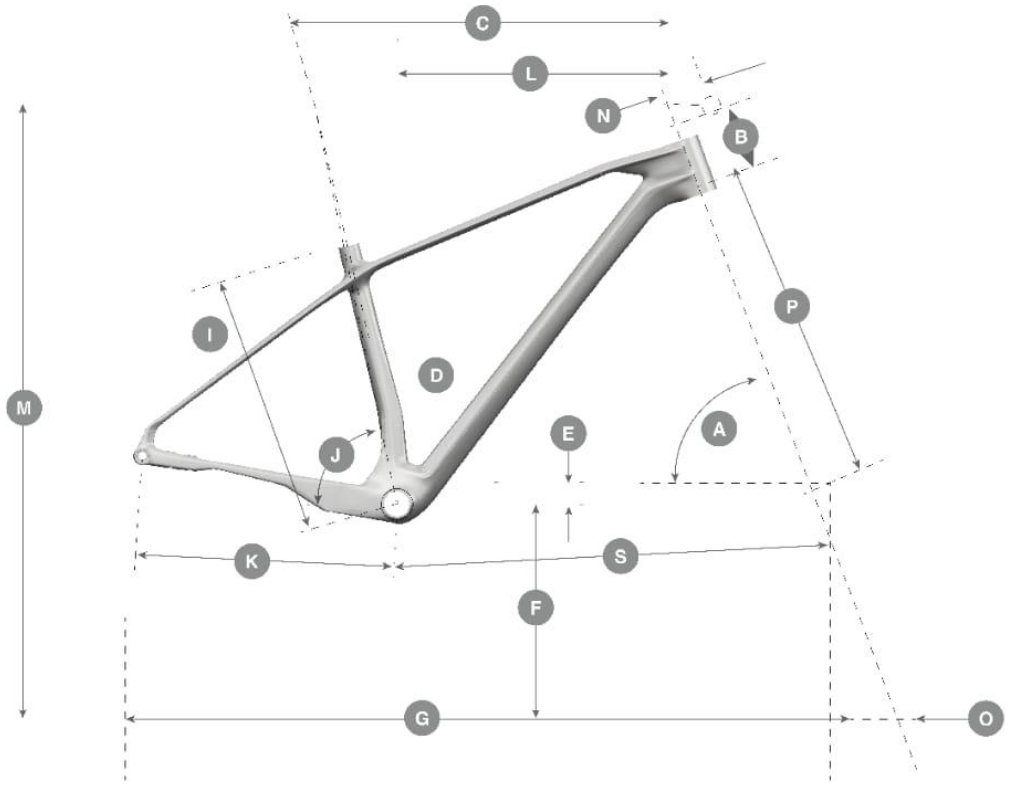
The frame features **fully internal cable routing** (without guide tubing), a **Universal Derailleur Hanger** (UDH), and is fully compatible with the latest SRAM Transmission systems, while also supporting mechanical and other electronic drivetrains.

Rear wheel compatibility follows the **BOOST 148 × 12 mm** standard, while braking is managed via a **Flat Mount interface**, supporting rotor sizes from 140 to 180 mm.

Included with the frame:

- ACROS headset
- Rear axle and UDH
- Seatpost clamp
- 4 bottle cage bolts
- Rubber chainstay guard

GEOMETRY



		size M
A	HEAD TUBE ANGLE	67.8
B	HEAD TUBE LENGTH	95
C	TOP TUBE HORIZONTAL	592
D	STANDOVER HEIGHT	753
E	BB OFFSET	61
F	BB HEIGHT	309
G	WHEEL BASE	1134
H	BB CENTER TO TOPTUBE CENTER	
I	BB CENTER TO TOP OF SEATUBE	430
J	SEAT ANGLE	74.5
K	CHAINSTAY	425
L	REACH	440
M	STACK	612
N	STEM LENGHT	70
O	TRAIL	103.5

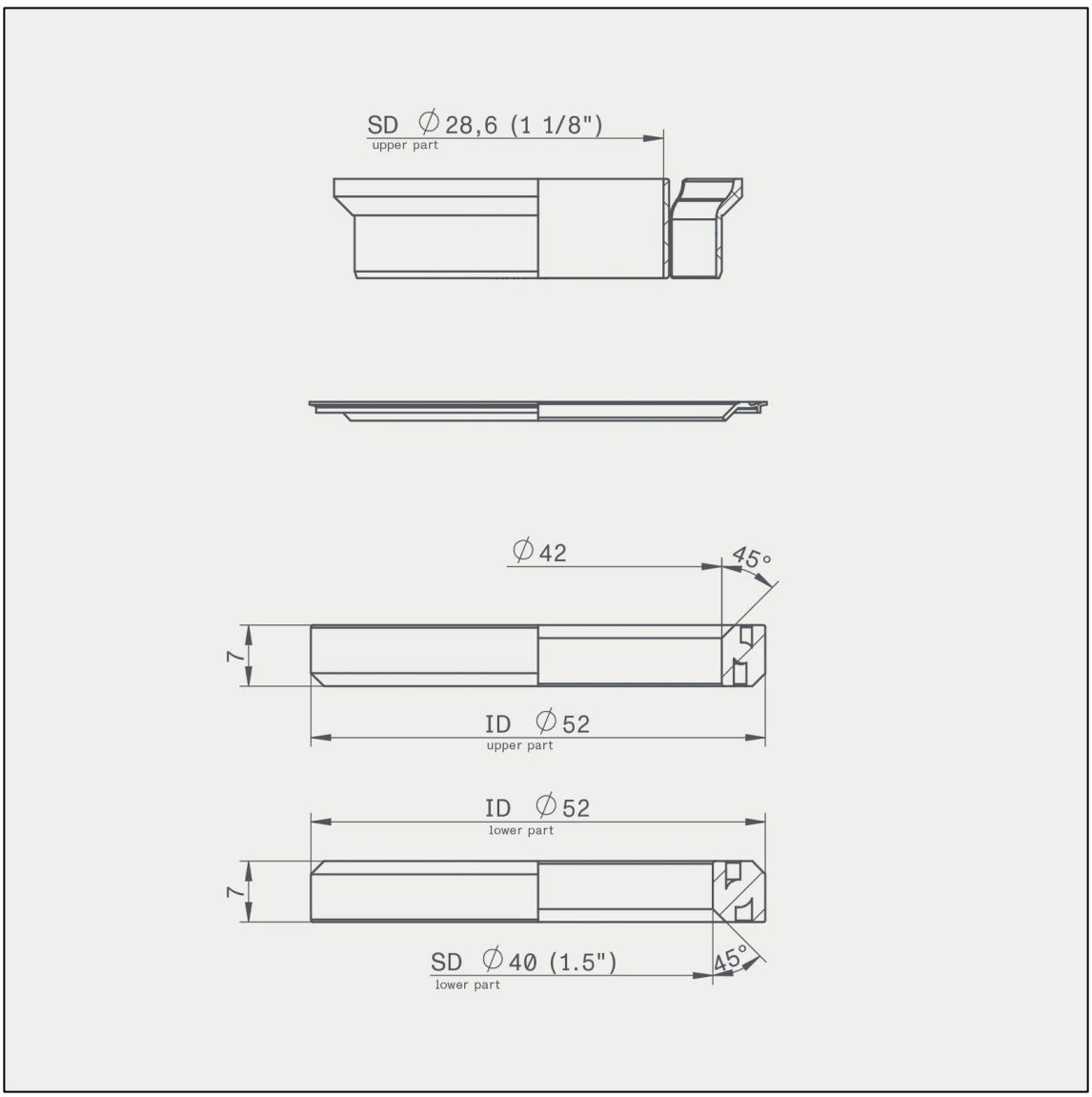
INSTALLATION AND MAINTENANCE

HEADSET

A high-quality **ACROS headset** with stainless steel bearings for integrated cable routing is included with the frame. The headset consists of the following components:

- **48.02.610R1S** – IS52 upper assembly for integrated cable routing
- **48.02.601R2S-1.5** – IS52 lower headset assembly (1.5” crown race)
- **24.52.113-OD56-AM** – OD56 mm integrated cable routing cover

Refer to the diagram below for the **exact bearing dimensions**, which may be useful if you plan to replace any part with components from another brand.



SMALL PARTS

Both the **rear axle** and **Universal Derailleur Hanger (UDH)** are included with the frame. The rear axle is specifically designed for the Atlas frame and is also available as a spare part. Do not use axles with different dimensions or thread pitch, as this may damage the frame or compromise performance.

The specifications of the axle are: 171 mm – M12 × P1.0 × L17

- Recommended torque for the rear axle: 12 Nm
- Maximum torque: 15 Nm

- Recommended torque for the UDH: 25Nm

A **seatpost clamp** for 31.6mm seatposts is also included. We recommend positioning the clamp bolt **facing forward** to reduce dirt buildup—although rear-facing installation is also technically valid.

- Recommended torque for the seatpost clamp: 4 Nm
- Maximum torque: 5 Nm

The frame accommodates **two bottle cages** and is supplied with **four cage bolts**.

- Bolt torque: 2–3 Nm

Please test your bottle cages for fit, as some combinations may cause rubbing against the frame—especially when using two bottles. For best results, we recommend a **side-load bottle cage** if you plan to mount two bottles on the frame.

ONE LAST NOTE

For the headset, please use the provided grease.

We also recommend not crossing the cables before they enter the frame. The right-hand cable(s) should go through the right side of the headset (and vice versa) to ensure the smoothest function and reduce cable rattling.

To further minimize rattling, we suggest using anti-rattle foam or rubber sleeves in the frame.

FRAME TECHNICAL

PRODUCT SHOTS


ATLAS
PORTE
FLEXTAIL SL

DRAWING

SPECIFICATIONS

- **Material**: High-modulus carbon fiber (T800/T1000)
- **Frame Weight**: 895 g (SL Matte finish) / 990 g (R Glossy finish)
- **Maximum Rider Weight**: 100 kg
- **Seatpost Diameter**: 31.6 mm
- **Maximum Seatpost Insertion Depth**: 280 mm
- **Chainring Compatibility**: 32T–38T
- **Bottom Bracket Type**: Press Fit 92 (PF92, 41 mm ID)
- **Maximum Tire Clearance**: 29” x 2.4”
- **Maximum Rear Rotor Size**: 180 mm
- **Rear Axle Spec**: 171 mm – M12 × P1.0 × L17

WARRANTY

See warranty document at:
https://www.rideporte.com/technical