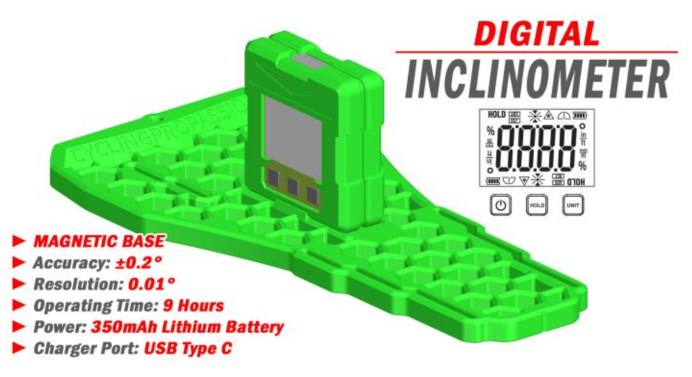
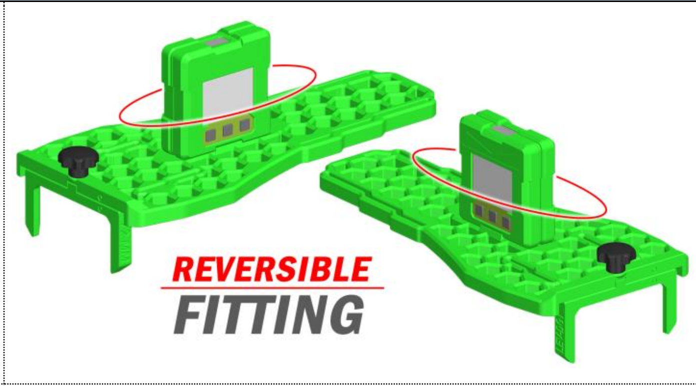
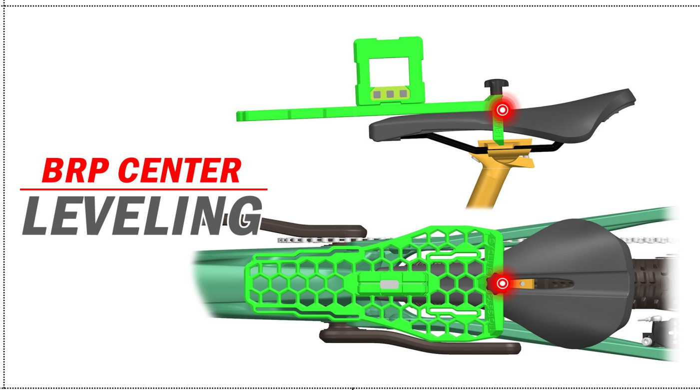
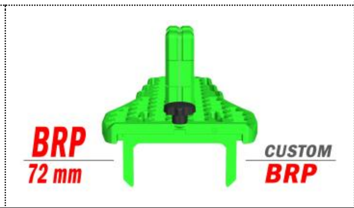
Smart Tool Saddle Leveling DGT
SADDLE ANGLE ADJUSTMENT

TOOL CONFIGURATION







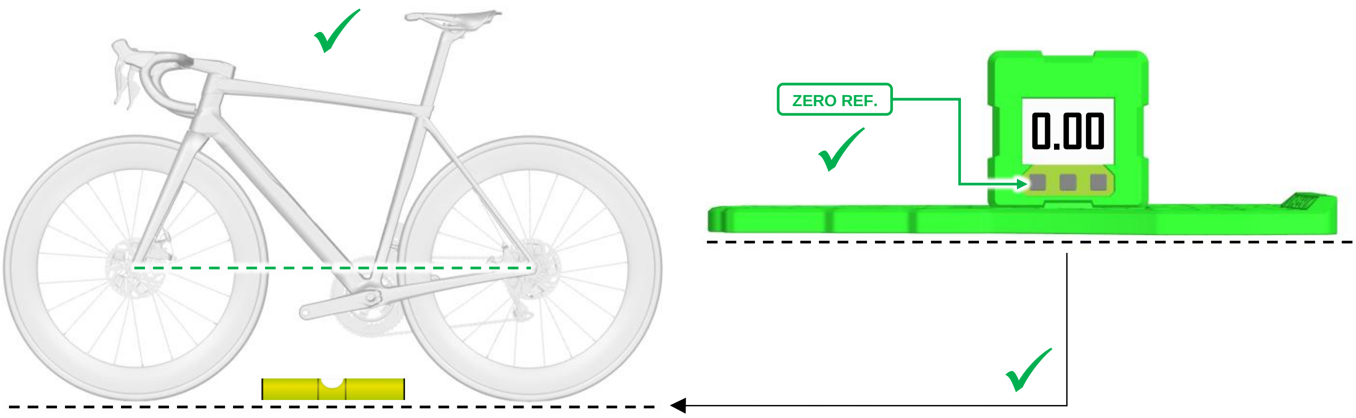


GENERAL FEATURES

- Compact technical tool used to measure saddle tilt in two distinct modes:
  - **NOSE-TO-TAIL**: the tilt is measured by placing the support base on the rear points and the nose of the saddle.
  - **BRP CENTER**: the tilt is measured by placing the support base on the anatomical center of the saddle, using interchangeable gauges available in the following widths: 70 mm, 72 mm, 75 mm, or 80 mm.
- The support base is equipped with a magnetic digital inclinometer, which can be oriented on either side according to user preference: DRIVE and NO-DRIVE.
- The support base features 4 side slots for optional fastening to the saddle using a hook-and-loop strap, reducing the risk of tool drop during saddle positioning.
- The digital inclinometer includes a shockproof cover (removable only in case of permanent replacement) and is rechargeable, with a battery life of 9 hours of continuous use. The digital inclinometer has a precision of ±0.2°.
- Compatible with all saddles from the most well-known brands on the market.
- Suitable for use with ROAD, AERO, GRAVEL, MTB, and e-MTB saddles.

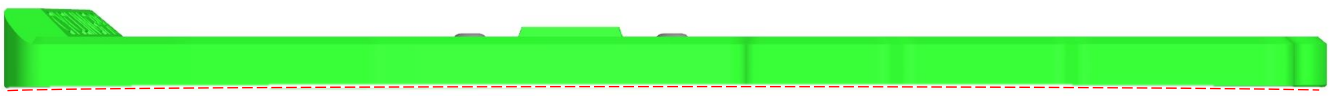
PRELIMINARY BICYCLE SETUP BEFORE MEASUREMENTS

- When using the tool during the measurement phases, it is important that the bicycle's positioning conditions and the digital inclinometer's calibration are optimal in order to obtain a reliable final setup result.
- Consider the following suggestions before proceeding with saddle tilt measurements and adjustments:
  1. Make sure the bicycle is placed on a FLAT SURFACE to ensure stability;
  2. To facilitate proper positioning, specific bike fitting stands or supports can be used to meet the requirement described in POINT 1;
- **Before taking measurements, it is essential to calibrate the digital inclinometer (mounted on the support base) on the same surface where the bicycle is placed**;
- If the bicycle is positioned as described above and the digital inclinometer has been properly calibrated, the saddle leveling process will return accurate tilt angle readings.



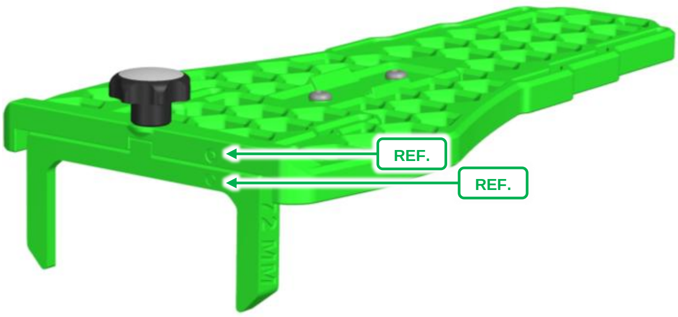
ATTENTION

The straightness error of the support base, detected by placing the base on a perfectly flat surface, does not in any way affect the measurement taken by the instrument on the saddle, as the error is in the order of only a few hundredths of a degree.



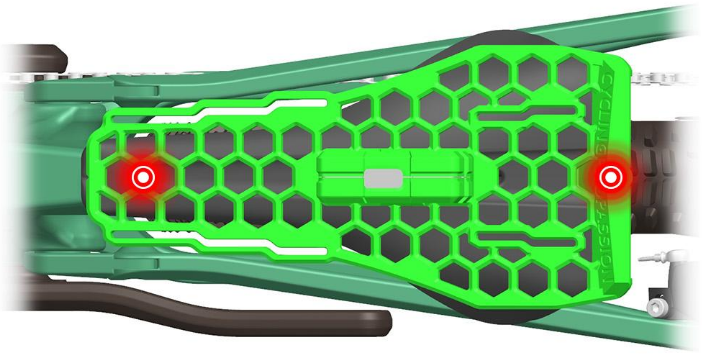
INSTALLATION OF THE ANATOMICAL GAUGE

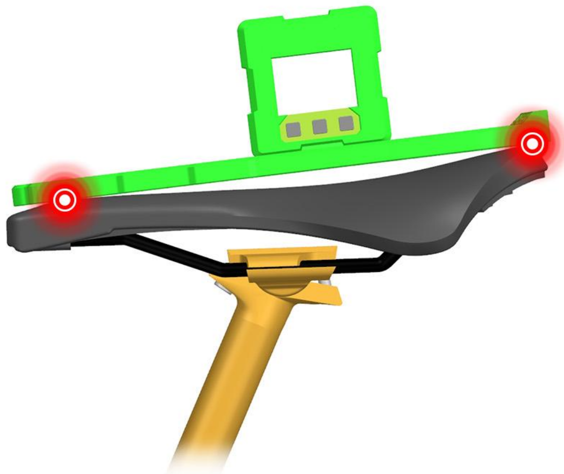
- Install the anatomical gauge into the “V” slot, the circular reference marks on the support base and on the anatomical gauge must be aligned;
- Tighten the knob with moderate force, excessive tightening may compromise the functionality of the threaded hole.



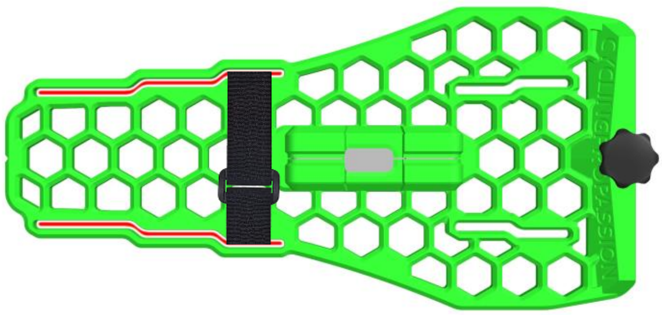
SETUP PROCEDURE – NOSE-TO-TAIL mode

NOSE-TO-TAIL
LEVELING





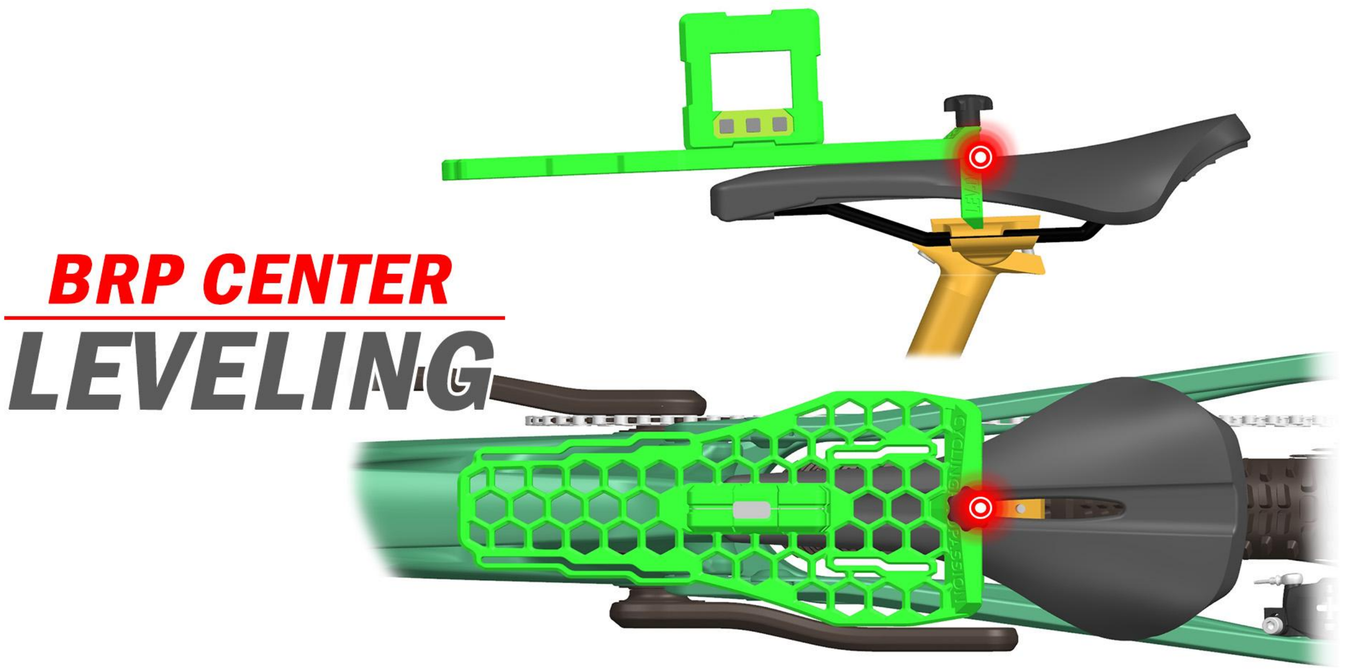
- The “**NOSE-TO-TAIL**” measurement mode allows you to measure the tilt by connecting the rear contact points of the saddle to the front point. In this way, the angle formed by the imaginary line connecting the rear points to the front point is measured.
- The support base features 4 side slots for optional fastening to the saddle using the supplied hook-and-loop strap, reducing the risk of tool drop during saddle positioning;
- During the “**NOSE-TO-TAIL**” measurement mode, use the hook-and-loop strap by inserting it into the **front** side slots to secure the tool to the saddle.



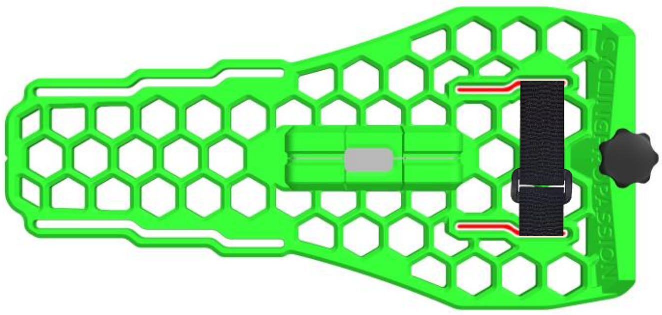
WARNINGS FOR SADDLE ATTACHMENT

- The maximum usable length of the hook-and-loop strap is 250 mm, including installation into the buckle;
- To ensure proper holding strength, the strap overlap must be EQUAL TO or GREATER THAN 4 cm.

SETUP PROCEDURE – BRP CENTER mode



- The “**BRP CENTER**” measurement mode allows you to measure the tilt directly from the anatomical center of the saddle, by positioning the support base using the interchangeable gauges available in the following widths: 70 mm, 72 mm, 75 mm or 80 mm.
- The support base features 4 side slots for optional fastening to the saddle using the supplied hook-and-loop strap, reducing the risk of tool drop during saddle positioning;
- During the “**BRP CENTER**” measurement mode, it is recommended to use the hook-and-loop strap by inserting it into the **rear** side slots to increase the contact between the anatomical gauge edge and the saddle surface.

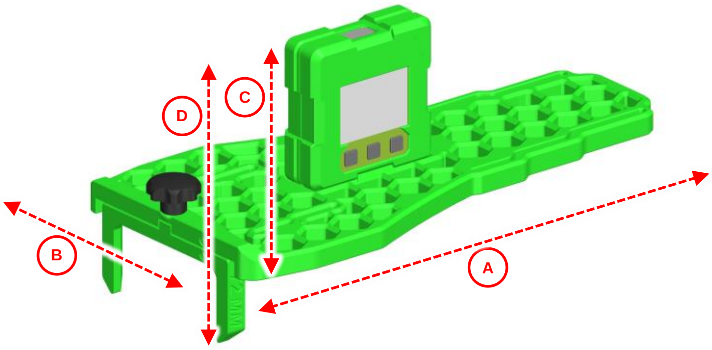


WARNINGS FOR SADDLE ATTACHMENT

- The maximum usable length of the hook-and-loop strap is 250 mm, including installation into the buckle;
- To ensure proper holding strength, the strap overlap must be EQUAL TO or GREATER THAN 4 cm.

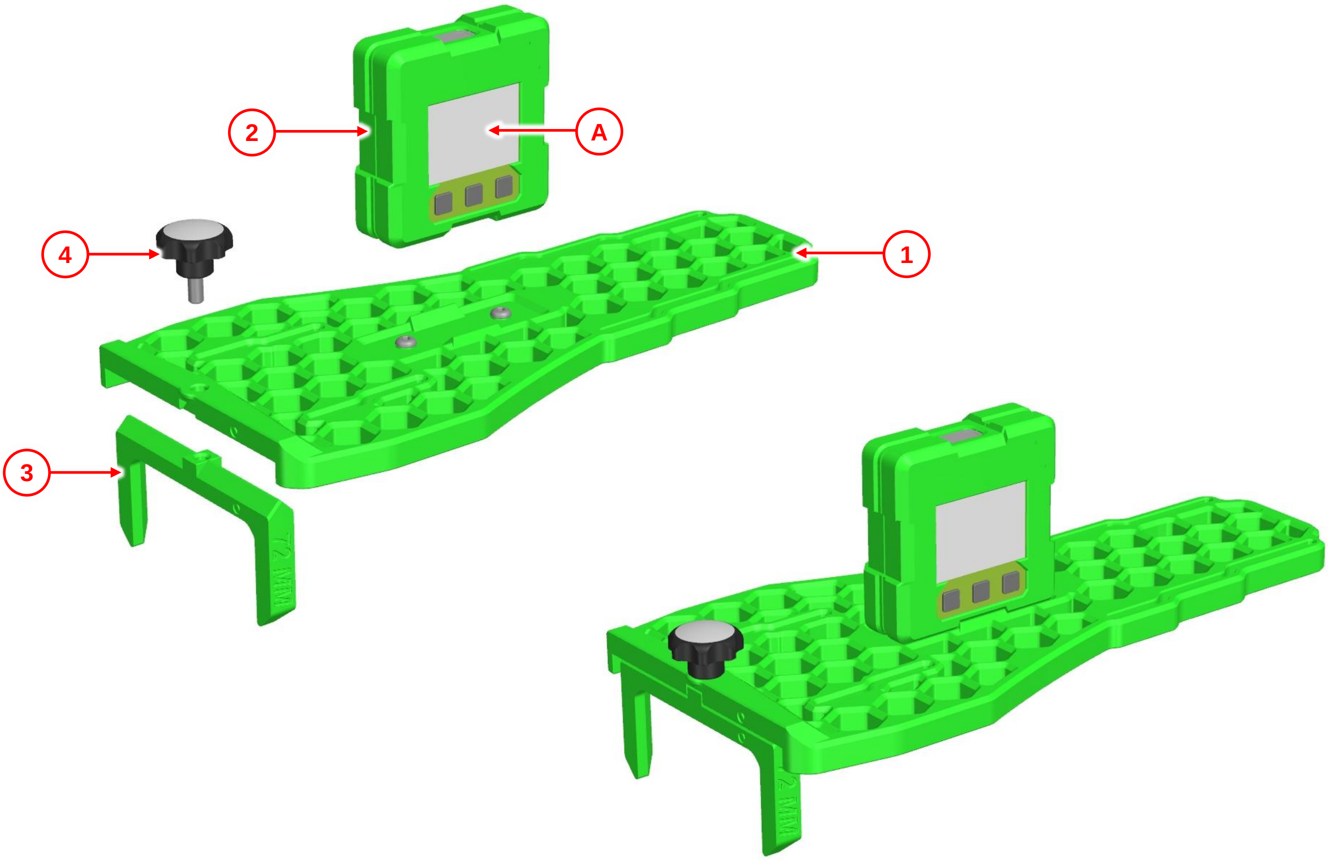
TECHNICAL DETAILS

- OVERALL TOOL:
  - Length dimension: 271 mm (A);
  - Width dimension: 127 mm (B);
  - Height dimension (including digital inclinometer) (C): 77 mm;
  - Height dimension (including digital inclinometer and installed BRP gauge) (D): 112 mm;
  - Saddle contact surface (without BRP gauge installed): 252x126 mm;
  - Saddle contact surface (with BRP gauge installed): 263x126 mm;
  - Made of PETG printed in 0.2 mm layers, plastic tightening knob, and galvanized steel components;
  - Total weight (including digital inclinometer, knob, and BRP gauge): 215 grams.



- DIGITAL INCLINOMETER:
  - Magnetic to the support base and orientable on both sides: DRIVE and NO-DRIVE;
  - Accuracy: ± 0.2°;
  - Resolution: 0.01°;
  - Display: Backlit screen (white);
  - Operating time: 9 hours of use on a full charge;
  - Power source: 350 mAh lithium battery;
  - Charging port: USB Type-C;
  - Units of measurement: °, %, in/ft, mm/m;
  - Dimensions (including shockproof cover): 69 x 69 x 25 mm
- Refer to the USER MANUAL available for download at this **LINK** .

COMPONENTS



BILL OF MATERIALS	
A - Digital inclinometer	Part_003: Anatomical gauge (70–72–75 or 80 mm)
Part_001: Support base	Part_004: Locking knob
Part_002: Shockproof cover *	-
	* removable parts only in case of permanent replacement

WARNINGS FOR PRODUCT USE AND STORAGE

- Slightly tighten the locking knob of the anatomical gauge (**part 4**); excessive tightening may compromise the functionality of the threaded hole.
- Do not expose the object directly to UV rays, as it may deform and lose its mechanical properties.
- Do not store the tool in humid environments, as moisture may lead to water absorption and material degradation.
- It is recommended to store the tool indoors at a temperature between 10-35 °C to prevent deformation and maintain dimensional stability.
- In case of prolonged storage in non-climate-controlled environments, it is recommended to monitor that the temperature does not exceed 35 °C and that humidity remains below 50%.
- Do not remove the shockproof cover (**part 2**) unless in case of permanent replacement. Removal will result in the breakage of the two shells.