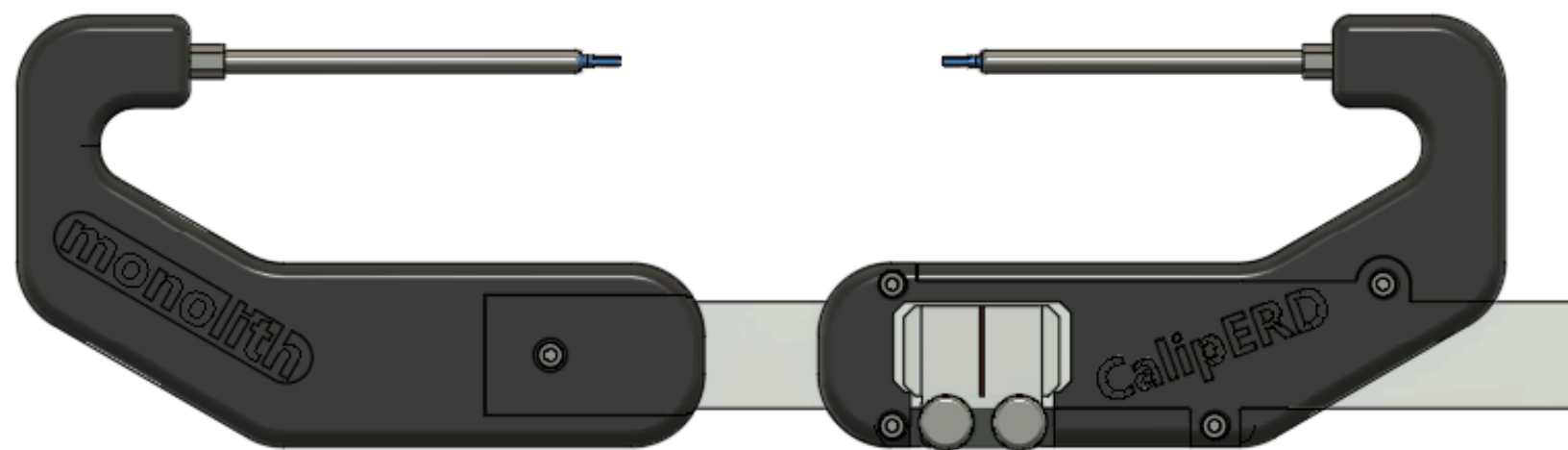


**monolith**

# Caliper<sup>TM</sup>ERD

Rim Measuring Device



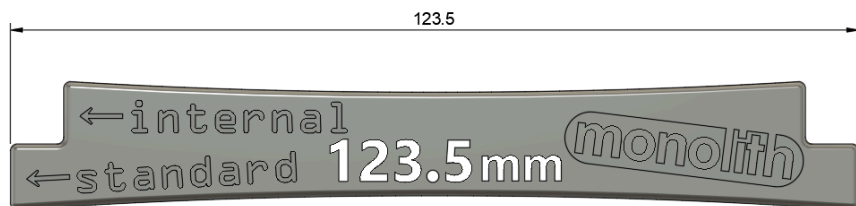
Thank you for purchasing CalipERD™ Rim Measuring Device.

This tool's purpose is to aid in calculating perfect spoke lengths for your application by accurately measuring Effective Rim Diameter.

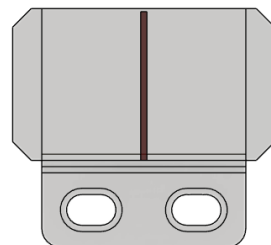
If you have technical questions or concerns contact [support@monolith.tools](mailto:support@monolith.tools)

## Contents

### Calibration Gauge



### Indicator Window



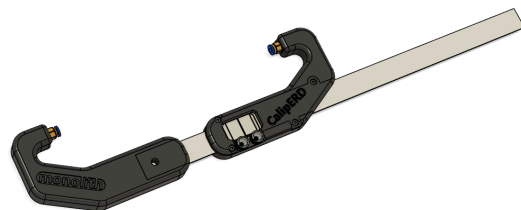
### Traditional Feeler Set



### Internal Feeler Set

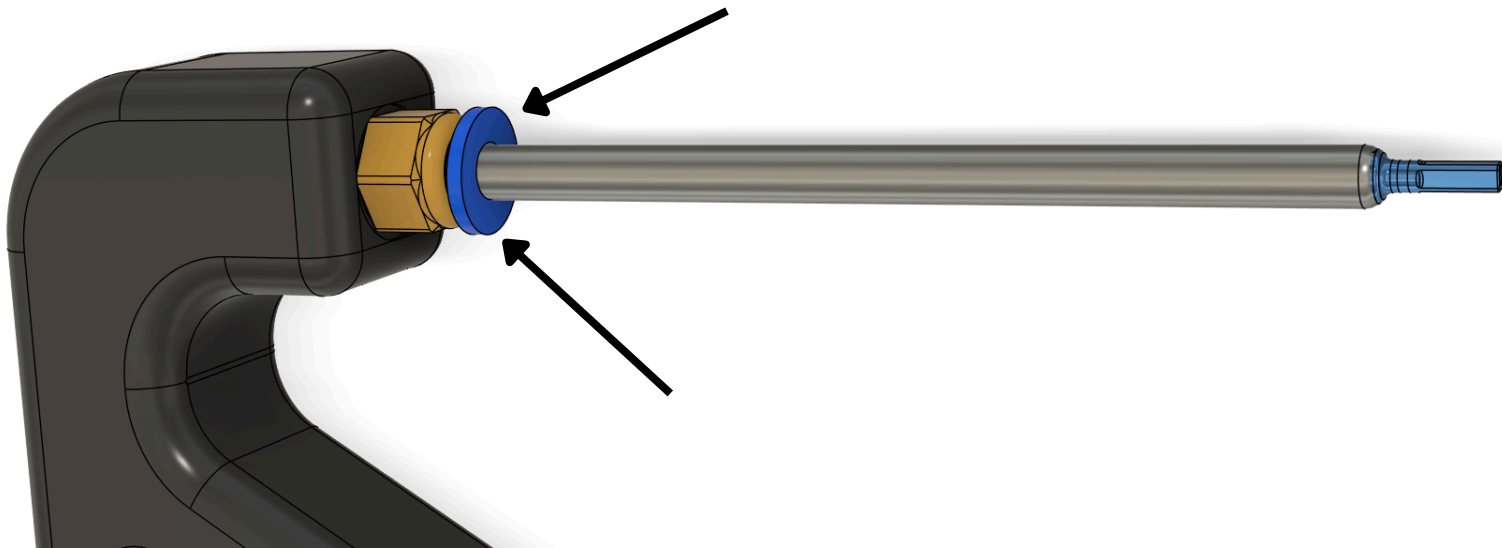


### Bodies & Ruler

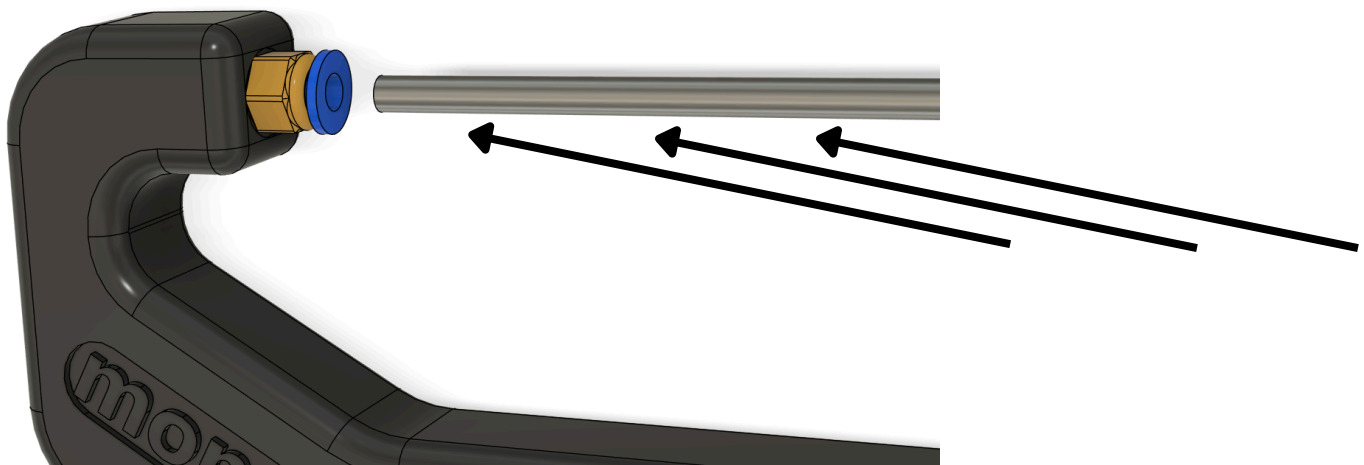


## Exchanging Feelers

Depress the plastic ring. This will release the locking mechanism, allowing you to remove the metal feeler by pulling firmly.



To install, gently slide the feeler into the hole past the locking mechanism. Then firmly press the feeler into its bore.



# Calibration

## For Traditional Rims

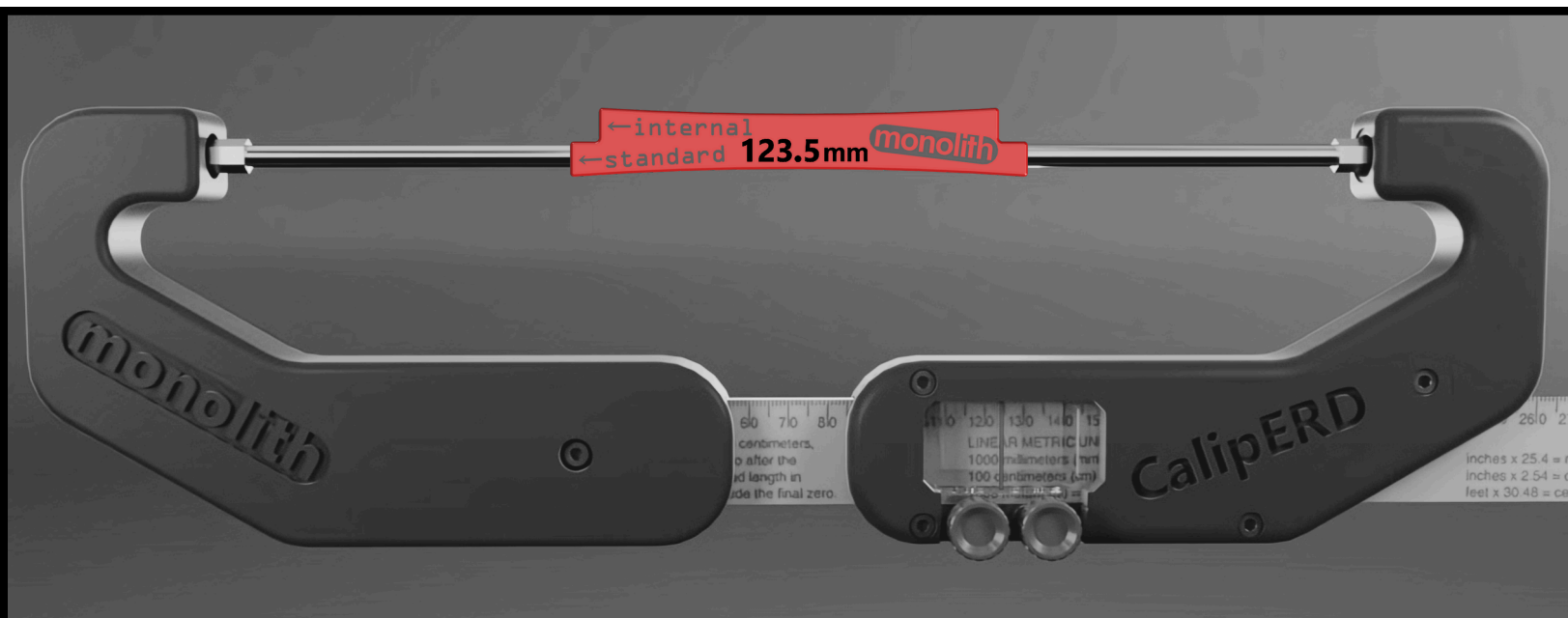
Place the calibration gauge into the 'standard' section - the lower part with holes for spoke nipples. With the feelers seated completely, press the jaws of CalipERD against the gauge.

Verify the reading on the indicator window. Adjust as necessary by loosening the thumbscrews, aligning the window, and retightening. Common settings include:

**Exact:** Window reads 123.5mm, with the line between 123 and 124.  
Suitable for verifying manufacturers' stated ERD or nipple seat dimension.

**Plus 3:** Window reads 126.5mm, with the line between 126 and 127.  
Perfect for most DT-Swiss and Sapim brand nipples for the ERD to be the back of the nipple slot

**Custom:** Using your personal guile & abilities, determine the perfect offset for the specific spoke nipple you are using on the wheelbuild.



# Calibration

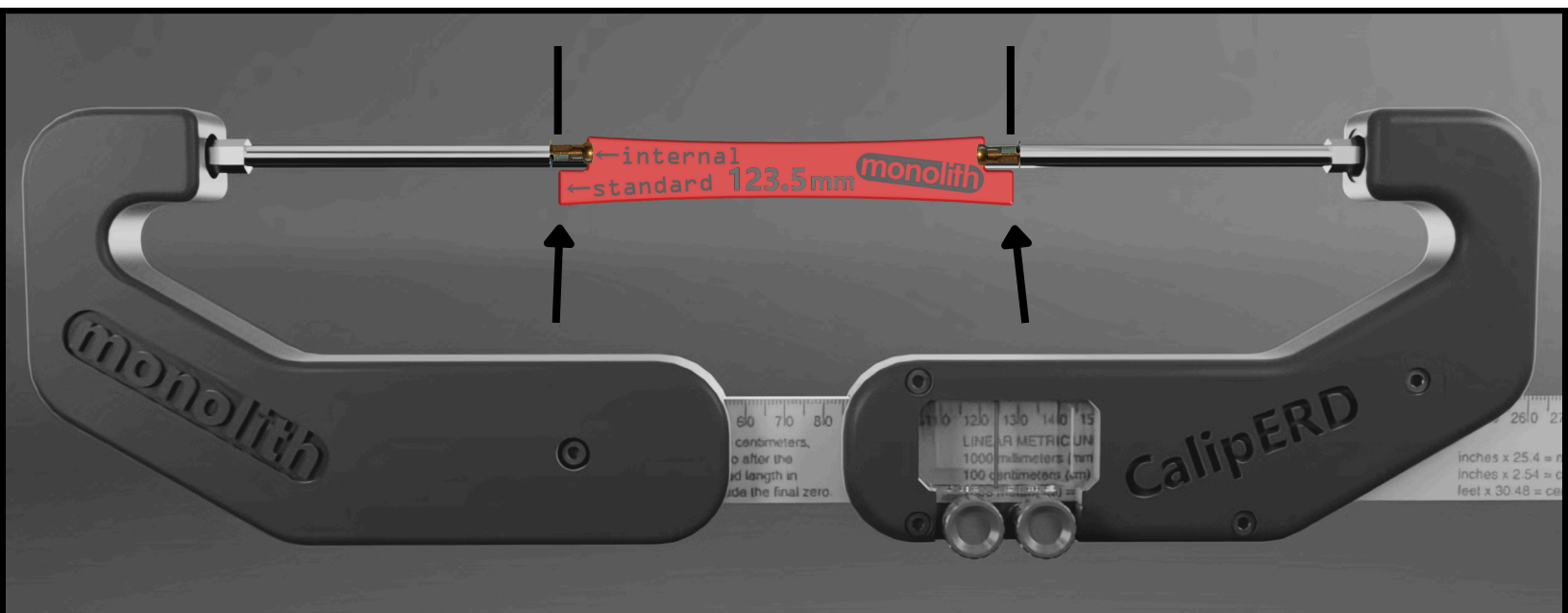
## For Internal-Nipple Rims

With the internal feelers in stalled, align the nipples into the 'internal' section of the calibration gauge - the upper part with dimples for spoke nipple heads. With the feelers seated completely, press the jaws of CalipERD against the gauge.

The reading on the indicator window should read 123.5mm, with the line between 123 and 124. Adjust as necessary by loosening the two knurled thumbscrews, placing the window appropriately, and retightening.

With the indicator window and gauge aligned, the outer edge of the gauge is a visual representation of where the spoke will end; you are ready to take an accurate ERD measurement from the internal rim.

If you prefer the spoke to end flush with the back of the nipple, add 2 or 3 millimeters to the indicator.

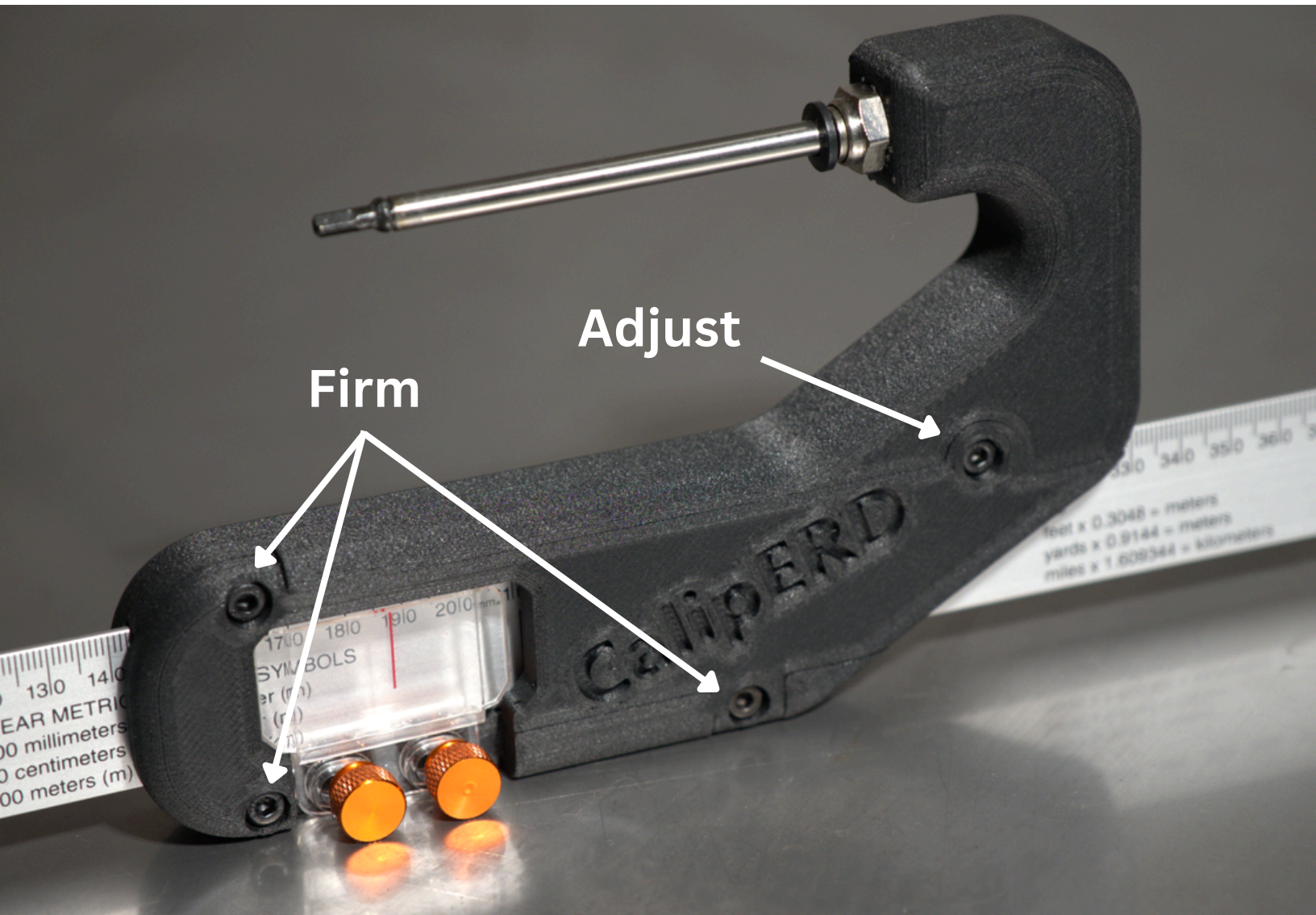




# Sliding Adjustment

If the sliding body is too loose or too tight for your preference, this can be adjusted with the top-right bolt.

The two leftmost bolts and the bottom right bolt should be firm, approximately 3Nm torque.



For further questions on CalipERD™ please contact [sales@monolith.tools](mailto:sales@monolith.tools)

For further information on spoke calculation access the following scan code:



<https://monolith.tools>