

## ProTable SA Linear Measuring Machine

ProTable-SA is a linear measuring system capable of measuring a variety of parts. It is designed for factory-floor use, and can be used to measure wood, plastic, metal, ceramic, glass, and more.



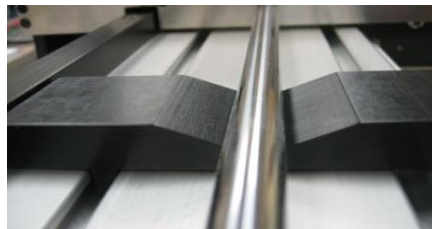
ProTable can be configured to **measure long shapes/profiles, mitered profiles, tubing/shafts, flat/sheet materials, even very thin or flexible materials.** The base system is built on a 6-inch-wide high quality anodized aluminum extrusion<sup>1</sup>. The carriage has three self-wiping steel **roller bearings** for smooth travel on hardened & chromed shafts<sup>2</sup> minimizing pitch, yaw, and Abbe' errors.

Our ProScale™ Series II inductive-coupling measuring technology<sup>3</sup> provides excellent performance and reliability in nearly all working environments. Standard jaws are ½" thick nickel plated & ground tool steel<sup>4</sup>. A battery powered digital readout<sup>5</sup> travels with the moving carriage, and can perform absolute/incremental measurements, store up to 4 offsets (allowing for add-on tooling), send measurements using the built-in SPC port, perform Go/NoGo testing, perform statistics on measurements, and much more.

Accuracy is guaranteed within +/- .003 inches, and the system has **built-in temperature monitoring and thermal compensation.** Adjustable feet are included for easy leveling. Numerous options exist for different measurement applications/industries (see below).



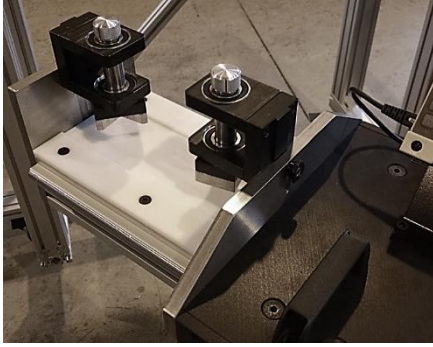
**Leg Kit:** makes ProTable a free-standing system. Add casters to make it mobile.



**Backfence** and/or **V-blocks** ensure parts are measured the same way by every operator.



**Custom inserts** allow measurement of SHORT leg on mitered parts plus overall length measurement. Changeover time is **less than 1 second.**



Wear Sheets to protect the table surface.  
Corner-to-Corner fixtures also shown.  
Changeover time to length measurement is less than **4 seconds**.



Transmit measurements wirelessly to a remote computer using our **ProRF-SPC Transmitter/Receiver System**.



Prefer a non-contact solution? Ask about one of our **Optical solutions**.  
(Shown with **2 measurement axes**.)

## Features:

- Large battery operated Digital Readout.
- Selectable units: Inches, millimeters, centimeters, or fractional inches.
- Incremental measuring mode – for comparing parts against a master part.
- Fast slew rate – move the carriage up to 80 inches/second.
- The Digital Readout stores calibration information for 4 different inserts/attachments.
- Digital Readout functions include: Go/NoGo, Summation of part lengths, MIN, MAX, and AVG statistics
- Automatic power-off after 15 minutes. Automatic power-on when carriage is moved.
- Bolt-on components allow measurement of diagonals, straightness, TIR, and more.
- Built-in SPC port can be used to send measurements over wired or wireless connections.
- Automatic temperature sensing and auto-correction for temperature compensation.
- Every unit is supplied with a calibration report .

## Specifications:

- Accuracy: Within  $\pm .003$  inches over measuring range ( $\pm .005$  inches over 16 ft.)
- Repeatability: .001 inch or 0.01mm
- Resolution: .001 inches, .01mm, or 1/64<sup>th</sup> inches
- Power: 1ea. Size 123 Lithium battery
- Range: Standard sizes up to 20 feet
- Maximum slew rate: 60 inches per second
- Warranty 3 years

## Common Options:

- Leg Kit: Converts ProTable-SA from table-top to free-standing.
- Casters: Makes ProTable-SA mobile. Casters are non-marring and have total locks built-in
- Custom jaws available: For special measurement applications or materials
- Backfence: Insures all parts are measured the same way by all operators
- V-blocks: For measuring tubing, shafts and other round profiles
- Corner-to-Corner Fixtures: To measure actual corner to corner dimensions
- Optical System: For non-contact measurements
- Wear sheets: Protects measuring surface when abrasive or sharp products are measured
- Debris Shield: Protects electronics in environments with abrasive dust or coolants
- Wireless Data System: Allows transmission of measurements to a remote computer

## Custom Designs:

We work with customers daily to design unique measuring solutions, including new ProTable designs and/or custom fixturing to suit particular measurement needs. You approve the final design concept using 2D, 3D, and/or internet collaboration tools before fabrication begins.

We may already have a design suited to your needs – contact us for details.

*Custom ProTable designs are a phone call (or email) away<sup>6</sup>.*

## Notes:

- <sup>1</sup>Other profiles and base elements are available on customized units
- <sup>2</sup>Bearings do not require greasing. Other bearing options exist on custom units.
- <sup>3</sup>Absolute encoder technology is also available
- <sup>4</sup>Customized jaw material and geometries also available
- <sup>5</sup>Different readout models are available (including externally powered units)
- <sup>6</sup>Engineering work for custom designs is available at no charge (up to 4 hours)