

ProTable-X™ Length Measuring System

ProTable-X is a linear measuring system capable of measuring a variety of parts. It is designed for use on a factory-floor, and can be configured for measuring wood, plastic, metal shapes (including sheet metal), ceramic, glass, and more.

ProTable-X can be configured to measure long shapes/profiles, mitered profiles, tubing/shafts, flat materials, even very thin or flexible materials. The base system is built on 1.5 inch square and 3 inch square precision machined anodized aluminum profiles. The carriage is built on a recirculating ball bearing that slides on a hardened shaft under the center of the table, with the moving jaw projecting through a slot in the tabletop.



Our ProScale® Series II inductive-coupling measuring technology¹ provides excellent performance and reliability in nearly all working environments. Standard jaws are ½" thick nickel plated & ground tool steel². A battery powered readout³ 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, some statistics on parts being measured, and many more functions.

Accuracy is guaranteed within +/- .003 inches across the entire measuring range, 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. Common system options include customized Jaw design or material, Backfence addition (to insure all parts are consistently aligned by all operators), Casters, and Wireless Data system.

Custom ProTable X designs are a phone call (or email) away⁴.

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 60 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.
- Built-in SPC port can be used to send measurements over wired or wireless connections.
- Automatic temperature sensing and auto-correction for thermal compensation.
- Each unit is supplied with a calibration report

Specifications:

- Accuracy: Within ± 0.003 inches over entire measuring range
- Repeatability: .001 inch or 0.01mm
- Resolution: .001 inches, .01mm, or 1/64th inches
- Power: 1ea. Size 123 Lithium battery
- Range: Standard sizes from 4 to 12 feet
- Maximum slew rate: 60 inches per second
- Warranty 1 year

Common Options:

- Custom measuring ranges
- Custom table sizes (width and length)
- Custom jaw designs and/or materials
- Casters

Custom Designs:

We work with customers daily to design unique measuring solutions, including the new ProTable-X 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.

Notes:

¹Absolute encoder technology is also available

²Customized jaw material and geometries also available

³Different readout models are available (including externally powered units)

⁴Engineering work for custom designs is available at no charge to you (up to 4 hours)