ProTable SA Linear Measuring Machine

ProTable is a linear measuring system capable of measuring a variety of parts. It is designed for use on a factory-floor, 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. The carriage has three self-wiping steel roller bearings for smooth travel on hardened & chromed shafts minimizing pitch, yaw, and Abbe’ errors.

Our ProScale™ Series II inductive-coupling measuring technology provides excellent performance and reliability in nearly all working environments. Standard jaws are ½” thick nickel plated & ground tool steel. A battery powered digital readout 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, statistics on parts being measured, and much more. Accuracy is guaranteed within +/-0.003 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 protect the table surface. Corner-to-Corner fixtures also shown. Changeover time to length measurement is <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 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.
• 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 thermal compensation.
• Each unit is supplied with a calibration report.

Specifications:
• Accuracy: Within ±.003 inches over measuring range (±.005 inches over 16 ft.)
• Repeatability: .001 inch or 0.01mm
• Resolution: .001 inches, .01mm, or 1/64th inches
• Power: 1ea. Size 123 Lithium battery
• Range: Standard sizes up to 20 feet
• Maximum slew rate: 60 inches per second
• Warranty: 1 year

Common Options:
• Leg Kit: Converts ProTable from table top to free-standing
• Casters: Makes ProTable mobile
• Custom jaw design or material: For special measuring applications and 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 from corner to corner on sample
• Optical System: For non-contact measurements
• Wear sheets: Protects measuring surface
• Debris Shield: Add to protect measuring system in environments with abrasive dust or coolant
• Wireless Data Transmitter and Receiver System.

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

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

Notes:
• Other profiles and base elements are available on customized units.
• Bearings do not require greasing. Other bearing options exist on custom units.
• Absolute encoder technology is also available
• Customized jaw material and geometries also available
• Different readout models are available (including externally powered units)
• Engineering work for custom designs is available at no charge to you (up to 4 hours).