

PRO-MIC

Electronic Roll Profiling Systems

Reliability, Repeatability and 3-Button Routine Operation

PRO-MIC TRUE End-to-End System II

The PRO-MIC TRUE End-to-End provides advanced **end-to-end** roll profiling technology in a portable package.

With its precision crafted mechanical components and tried and proven electronics, the PRO-MIC positions itself as far and away the best roll profiling system available today.

From the patented TRUE End-to-End design to the ingenious X-Caliper configuration to its ability to measure T.I.R. and Concentricity, the PRO-MIC is a constantly improving instrument.

The standard PRO-MIC measures change in diameter up to 10 times per inch with a resolution of 0.000020" and a guaranteed repeatability of +/-0.0001" (optional resolution to 0.000005").

In metric mode, the standard PRO-MIC measures change in diameter up to each 2mm of travel with a resolution of 0.0005m and a guaranteed repeatability of +/-0.0025mm.

Upgrades provide a host of optional features including:

- T.I.R. measurement
- Concentricity measurement
- Roll Model Shape Analysis
- Roll Temperature Measurement
- and many more...

The System can be connected to any one of PRO-MIC's software systems for electronic storage and recall of profiles, SPC Analysis, Shape Analysis, Target Shape comparisons and roll wear analysis.

Call us, or call any one of the nearly 625 satisfied PRO-MIC users. Any of us would be happy to talk with you about our Systems.



16" to 48" PRO-MIC TRUE End-to-End
X-Caliper Design

PRO-MIC Corporation . 20135 Valley Forge Circle . King of Prussia, PA 19406

Phone: 610/783-7901 . www.PRO-MIC.com . 1-800-PRO-MIC-1 . Fax: 610/783-7904

PRO-MIC TRUE End-to-End System II

System Description

The PRO-MIC TRUE End-to-End systems are the industry standard for portable electronic roll profiling equipment. More than 625 PRO-MIC systems are in use worldwide each day.

The PRO-MIC TRUE End-to-End Systems are saddle micrometer based, measuring change in diameter up to 10 times per inch (2mm) of travel along the roll face to a standard resolution of 0.000020" (0.0005mm).

All PRO-MIC Systems are based upon reliability, repeatability and 3-button routine operation which makes them an easy addition to any quality conscious roll shop.

All PRO-MIC Systems easily operate in both inch and millimeter units.

System Components

1. Precision PRO-MIC X-Caliper Saddle Micrometer.
2. PRO-MIC TRUE End-to-End electronics package.
3. PRO-MIC Charger/Interface.
4. Printer for hardcopy output.
5. 500 copies of Roll Profile Report.
6. Set of wrenches required for assembly.
7. ISOBAR surge protector.
8. Instruction manual with calibration data.
9. Full 6-month defect and performance guarantee on all components excluding measurement probes..

Physical Data

System Design: PRO-MIC TRUE End-to-End X-Caliper

Diameter Range	Weight	Probe Spacing	Track Width	Minimum Roll Length
4" to 22" (100 to 559mm)	17.0 lbs (7.7 kg)	8" (203mm)	3.5" (89mm)	18" (457mm)
8" to 32" (200 to 810mm)	20.0 lbs (9.1 kg)	12" (304mm)	6.5" (165mm)	26" (660mm)
8" to 40" (200 to 1015mm)	21.0 lbs (9.5 kg)	12" (304mm)	6.5" (165mm)	26" (660mm)
16" to 48" (400 to 1200mm)	32.0 lbs (14.5 kg)	11" (279mm)	12.5" (317mm)	24" (610mm)
16" to 64" (400 to 1600mm)	33.0 lbs (15.0 kg)	11" (279mm)	12.5" (317mm)	24" (610mm)
20" to 80" (500 to 2000mm)	50.0 lbs (22.7 kg)	15" (381mm)	12.5" (317mm)	32" (813mm)

Electronic Data

System Design:

PRO-MIC TRUE End-to-End Electronics Package Series 5000
User selectable inch or millimeter units.

Probes:

Measurement Range: +/- 0.040" (0.080" total) / +/-1.0mm (2.0mm total)
Optional Measurement Range: +/-0.200 (0.400" total) / +/-5.0mm (10mm total)
Resolution: 0.000020" / 0.0005mm
Repeatability: +/-0.0001" / +/-0.0025mm

Measurement Frequency:

User Selectable: 0.1", 0.2", 0.25", 0.5" (2mm, 5mm, 10mm, 20mm)

Output:

Direct to LaserJet Type printer or PCL5 Compatible Printer.
Optional transfer to personal computer.
8.5" x 11" Full graphical and 21 station data outputs available.

System Options

PRO-MIC DIGITAL:

Upgrade to the PRO-MIC Digital Electronics Package with extended measurement range and all digital - no calibration - operation. U-400

PRO-MIC PRO-FILER:

Hand held memory unit for temporarily storing groups of profiles.TN-003

Computer Systems:

Store and retrieve profiles electronically; create a paperless roll shop.TN-007T

PRO-MIC Shape Analysis:

Diagnose grinding machine problems by separating profiles into Taper, Crown, Symmetry and Shape. TN-010

Switchable Probes:

Switch between standard measurement probes and high-resolution (0.000005") or long-throw probes (0.400"/10mm range) using one electronics.

Transferable Electronics:

Share one PRO-MIC electronics between two mechanical systems.