

PRO-MIC

PRO-MIC Roll Measurement Systems

Reliability, Repeatability and 3 Button Operation

PRO-MIC Lightweight Series

The PRO-MIC Lightweight Series provides advanced single probe roll profiling technology at an affordable price. Never before could one roll profiling system be conveniently used to measure **work rolls** and **backup rolls**.

Mechanically, the Lightweight Series is an all new design crafted from the precision **aluminum, titanium and steel** components for long term, reliable, low maintenance operation.

Electronically, this Series uses a single probe version of the latest generation of Digital PRO-MIC electronics.

The PRO-MIC Lightweight Series measures change in diameter up to 10 times per inch with a resolution of 0.000020" and a guaranteed repeatability of +/-0.0001".

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

High Resolution upgrade is available measuring to 0.000005"/0.000125mm.

Upgrades provide a host of optional features including:

- Bluetooth Data Transfer to PC Software
- Concentricity measurement
- Sine Curve Roll Shape Analysis
- Roll Temperature Measurement

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 more than 950 satisfied PRO-MIC users. Any of us would be happy to talk with you about our Systems.



8" to 32" PRO-MIC Lightweight
Weight: 9 lbs.
4" Wheelbase



8" to 32" PRO-MIC Lightweight
Side view showing new Arc-Handle

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PRO-MIC Lightweight Series System II

System Description

The PRO-MIC systems are the industry standard for portable electronic roll profiling equipment. More than 950 PRO-MIC systems are in use worldwide each day.

The PRO-MIC Lightweight Series 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 provide reliability, repeatability and 3-button routine operation making them an easy addition to any quality conscious roll shop.

System Components

1. Precision PRO-MIC Lightweight Saddle Micrometer
2. PRO-MIC Digital Electronics Package.
3. PRO-MIC Charger/Interface.
4. Printer for hardcopy output.
5. Set of wrenches required for assembly.
6. ISOBAR surge protector.
7. Instruction manual with certification/calibration data.
8. Full 6-month defect and performance guarantee on all components excluding measurement probe.

Physical Data

System Design: PRO-MIC Lightweight Series

Diameter Range	Weight	Wheelbase	Measurement Distance From End of Roll
4" to 22" (100 to 560mm)	8.0 lbs (3.6 kg)	4" (101mm)	2" (50mm)
8" to 32" (200 to 800mm)	9.0 lbs (4.0 kg)	4" (101mm)	2" (50mm)
8" to 40" (200 to 1015mm)	10.0 lbs (4.5 kg)	4" (101mm)	2" (50mm)
16" to 48" (400 to 1200mm)	19.0 lbs (8.6 kg)	4" (101mm)	2" (50mm)
16" to 64" (400 to 1600mm)	20.0 lbs (9.0 kg)	4" (101mm)	2" (50mm)
20" to 68" (500 to 1725mm)	29.0 lbs (13.0 kg)	6" (152mm)	3" (76mm)

Electronic Data

System Design: PRO-MIC Digital Electronics Package Series 6000
User selectable inch or millimeter units.

Probes: Measurement Range: +/-0.200 (0.400" max) / +/-5.0mm (10mm max)
Resolution: 0.000020" / 0.0005mm
Repeatability: +/-0.0001" / +/-0.0025mm
Optional Resolution: 0.000005"/0.000125mm

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

System Options

Bluetooth Wireless: Provides wireless Bluetooth Communication between the PRO-MIC and your PC. (TN-023BT)

PC Software Systems: Store and retrieve profiles electronically; analyze roll shapes and grinding accuracy. PRO-MIC Quantum Software. TN-007T

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

High Resolution Option: Switch between standard measurement probes and high-resolution (0.000005"/0.000125mm) using one electronics.

Transferable Electronics: Share one PRO-MIC electronics between two mechanical systems.