

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

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.

Upgrades provide a host of optional features including:

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

The PRO-MIC PRO-FILER can be mounted to the Lightweight Series for on-board storage of groups of roll profiles for later hard copy output or transfer to a computer.

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 750 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

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 Lightweight Series System II

## System Description

The PRO-MIC systems are the industry standard for portable electronic roll profiling equipment. More than 750 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. 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 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)

## 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)

### Output:

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

## System Options

### Bluetooth Wireless:

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

### 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.  
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

### Switchable Probes:

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.