

# PRO-MIC

## Electronic Roll Profiling Systems

*Reliability, Repeatability and 3-Button Routine Operation*

### PRO-MIC Rolling Caliper

The **PRO-MIC Rolling Caliper** is a special approach to roll profiling using an opposed measurement probe configuration.

This new generation of PRO-MIC Systems is designed around the two ideals that matter most to our customers - **Light Weight and Repeatability**.

Using the new PRO-MIC Digital Electronics in a special **Opposed Probe** configuration and an all new mechanical design, PRO-MIC has put together a system that is truly light weight and easy to use.

Our test roll measurement results show repeatable measurements as good as 50 millionths of an inch. (That's 0.000050" across a profile of nearly 400 measurements.)

The Rolling Caliper's short 4"/100mm wheelbase lets it measure as close as 2"/50mm to the ends of the roll.

The 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". Crowns up to 0.400" can be easily measured. The High Resolution upgrade provides 0.000005"/0.0001mm resolution.

Upgrades provide a host of optional features including:

- Bluetooth Wireless Communication
- Roll Temperature Measurement
- Wireless communication with Printer or PC.
- Concentricity measurement
- Roll Shape Analysis

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 Rolling Caliper  
**Weight: 11 lbs.**  
4" Wheelbase



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

# PRO-MIC Rolling Caliper System II

## System Description

The PRO-MIC Roll Profiling 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 Systems are saddle micrometer based, measuring change in diameter up to 10 times per inch 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.

## System Components

1. Precision PRO-MIC Rolling Caliper Frame
2. PRO-MIC Digital Opposed Probe Electronics package.
3. PRO-MIC Charger/Interface.
4. Printer for hard copy 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 Digital Probes.

## Physical Data

**System Design:** PRO-MIC Rolling Caliper

Diameter Range	Weight	Wheelbase	From End of Roll
4" to 22" (100 to 560mm)	9.0 lbs (4.0 kg)	4" ( 101mm)	2" ( 50mm)
8" to 32" (200 to 800mm)	11.0 lbs (5.0 kg)	4" ( 101mm)	2" ( 50mm)
8" to 40" (200 to 1015mm)	12.0 lbs (5.5 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 - Opposed Probe Configuration  
User selectable inch or millimeter units.

**Probes:** Measurement Range: +/-0.200 (0.400" total) / +/-5.0mm (10mm total)  
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 via PRO-MIC Visual 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-023)

**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.