PRO-MIC

PRO-MIC Roll Measurement Systems

Reliability, Repeatability and 3 Button Operation

PRO-MIC Mini-Z TRUE End-to-End System II

The PRO-MIC Mini-Z TRUE End-to-End provides the state of the art in roll profiling technology -- for Sendzimir and other small diameter mill rolls.

This exclusive version of our miniature mechanical designs is intended specifically to measure the small diameter mill rolls quickly and reliably - from End-to-End.

Mini-Z systems are hand held and portable so rolls can be measured anywhere: in the grinder, in racks or stands, just before installation or just after a roll change.

The PRO-MIC Mini-Z uses the same tried and proven PRO-MIC electronics in use in nearly 950 locations world wide, but with a convenient off-board configuration.

Mini-Z standard size range is: 1" to 4" (25.4-100mm).

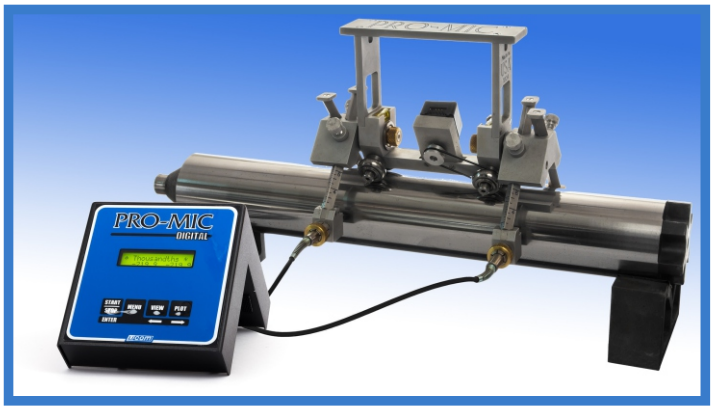
All PRO-MIC units measure change in diameter up to 10 times per inch of travel with a resolution of 0.000020" and repeatability of ±0.0001".

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.

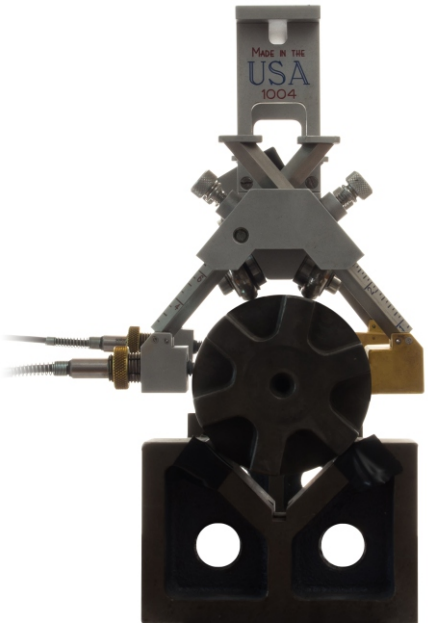
Optional High Resolution upgrade provides 0.000005"/ 0.000125mm resolution.

Computer based systems provide instant profile storage and recall, track the history of each stored roll and allow multiple profiles to be displayed and compared simultaneously. Available analysis using sine, parabolic, taper-flat-taper and CVC shapes will compare a roll's ground shape to the perfect target profile for that grinding.

If you have questions, or would like more information, please contact us. We will be happy to talk with you about our systems.



1" to 4" PRO-MIC Mini-Z Saddle TRUE End-to-End Design Shown on 2.5" O.D. Roll



1" to 4" PRO-MIC Mini-Z Saddle TRUE End-to-End Design Side View

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PRO-MIC Mini-Z TRUE End-to-End

System Description

The PRO-MIC Mini-Z Systems are miniature versions of the industry standard PRO-MIC TRUE End-to-End designed to measure profiles of small diameter mill rolls. More than 950 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 simple routine operation which makes them an easy addition to any quality conscious rollshop.

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

System Components

1. Precision PRO-MIC TRUE End-to-End 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 TRUE End-to-End X-Caliper -- Miniature Version.

Diameter Range	Weight	Probe Spacing	Track	Roll Length Range
1" to 4" (25 to 100mm)	4 lbs. (9 kg)	6" (152mm)	0.9" (23mm)	14" to 500" (355 to 20000mm)

Electronic Data

System Design:
PRO-MIC Digital Electronics Package Series 6000
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)

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.