

PRO-MIC

Electronic Roll Measurement Systems

PRO-MIC Mini-Z System II

The PRO-MIC Mini-Z provides the state of the art in roll profiling technology -- for Sendzimir and other Small diameter Mill rolls.

The PRO-MIC's miniature mechanical designs are intended specifically to measure the small diameter Z-mill rolls quickly and reliably.

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 700 locations world wide, but with a forgiving opposing probe configuration.



**1.5" to 7" PRO-MIC Mini-Z Saddle
Shown on 2.5" O.D. Roll**

Mini-Z standard size ranges are: 1" to 4", 1.5" to 7" and 2.5" to 9". Custom sizes are available.

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 ". High Resolution packages are available.

On-board Roll Model shape analysis will give you the ability to separate your profiles into four distinct elements: TAPER, CROWN, SYMMETRY and SHAPE and help you diagnose roll grinder problems.

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. Analysis using sine, 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, call us or contact one of our many system users. We will be happy to talk with you about our systems.

PRO-MIC Mini-Z Opposed Probe

System Description

The PRO-MIC Mini-Z Systems are miniature versions of the industry standard PRO-MIC systems designed to measure profiles of small diameter mill rolls (<1" to 9" OD).

These PRO-MIC Systems are saddle micrometer based, and measure change in diameter 5 times per inch of travel along the roll face to a standard resolution of 0.000020".

All PRO-MIC Systems are based upon Reliability, Repeatability and 3-Button routine operation which makes them an easy addition to any quality conscious rollshop.

System Components

1. Precision PRO-MIC X-Caliper Saddle Micrometer.
2. PRO-MIC Opposed Probe 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 Mini Z

Diameter Range	Weight	Probe Spacing
1" to 4" (25 to 100mm)	4 lbs. (9 kg)	Opposed
1.5" to 7" (38 to 178mm)	5 lbs. (11 kg)	Opposed
2.5" to 9" (64 to 228mm)	6 lbs. (13 kg)	Opposed

Electronic Data

System Design: PRO-MIC Z Electronics Package
Series 5000
Hand Held Version

Probes: Measurement Range: +/- 0.040" (0.080" total)
Resolution: 0.000020" (optional to 0.000005")
Repeatability: +/-0.0001"

Measurement Frequency: 0.2" standard, 0.1" optional, 0.5" optional

Output: Direct to Supplied Printer
Optional transfer to personal computer.
8.5" x 11" Full graphical and 21 station data outputs available.

System Options

PRO-MIC PRO-FILER: Hand held memory unit for temporarily storing groups of profiles.

Computer Systems: Store and retrieve profiles electronically; create a paperless rollshop.

PRO-MIC System II.5: Diagnose grinding machine problems by separating profiles into Taper, Crown, Symmetry and Shape.

Switchable Probes: Switch between standard measurement probes and high-resolution or long-throw probes using one electronics.

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