

# PRO-MIC

## Electronic Measurement Systems

*Reliability, Repeatability and 3-Button Routine Operation*

### PRO-MIC Strip Profiling Workstation

#### Overview

The PRO-MIC Strip Profiling WorkStation is designed to measure the thickness variation of strip steel, aluminum or other solid flat rolled materials.

The WorkStation is designed to hold an up to 80 inch long sample hydraulically clamped.

The measurement system itself is a modified version of the industry standard PRO-MIC Roll Profiling System electronics.

This electronics has proven itself in use in more than 500 installations worldwide.

The measurement is made using opposing +/-0.200" PRO-MIC Digital measurement probes. The opposing probe is a key element of the measurement.

The Probes, which do not require calibration, provide a resolution of 0.000020". All calculated data is presented to 0.0001", as with the PRO-MIC Roll Profiling Systems.

The measurement head is mounted to a precision linear slide and is moved along the clamped sample by the operator. The electronics unit is mounted to the Caliper Head in easy reach of the operator.

The device is capable of measuring strip between 0.010" and 0.250" in thickness and is capable of recording profile variation of up to 0.080".

The systems design parameters were to provide a device which is:

1. Cost effective.
2. Simple for the operator to use/learn.
3. Quick to setup and measure.
4. Based upon familiar technology.
5. Easily customized to meet each customer's needs.

The parameters have been met. Please call us, we will be happy to discuss your application.

#### PRO-MIC Strip Profiling WorkStation Specifications

##### Sample Dimensions:

12.0" to 80.0" width (User Specified)  
0.010" to 0.250" thickness  
3" to 12" length (rolling direction)

##### Measurement Resolution:

0.000020"

##### Repeatability:

+/-0.0001"

##### Measurement frequency:

0.1", 0.2" or 0.5"

##### Electronics Type:

PRO-MIC Digital Z Opposing Probe  
Two +/- 0.200" Probes HEDS-5500 Encoder

##### Measurement Position:

Approx. 2" from strip edge (rolling direction)  
>=0" from strip edge (width)

##### Output:

8.5" X 11" Full Color Roll Profile Report

##### Computer System:

PRO-MIC's Visual Quantum Software  
For Data Storage, Recall and ready  
Export to ASCII files.

\*Accuracy is influenced by the sample quality.

#### Consisting of:

1. PRO-MIC Precision WorkStation
2. PRO-MIC Digital Z Electronics package
3. PRO-MIC Power Supply/Interface
4. PRO-MIC LED Display
5. LEXMARK OptraColor 45 printer for 8 1/2" x 11" copy
6. Visual Quantum Software (Software Only)
7. 500 copies of Roll Service Report
8. Set of wrenches required for assembly
9. Cables and Power Strip/Surge Protector
10. Six month warranty
11. Operating Instructions
12. Hydraulic Clamping System
13. Actual Thickness Reading Option Available

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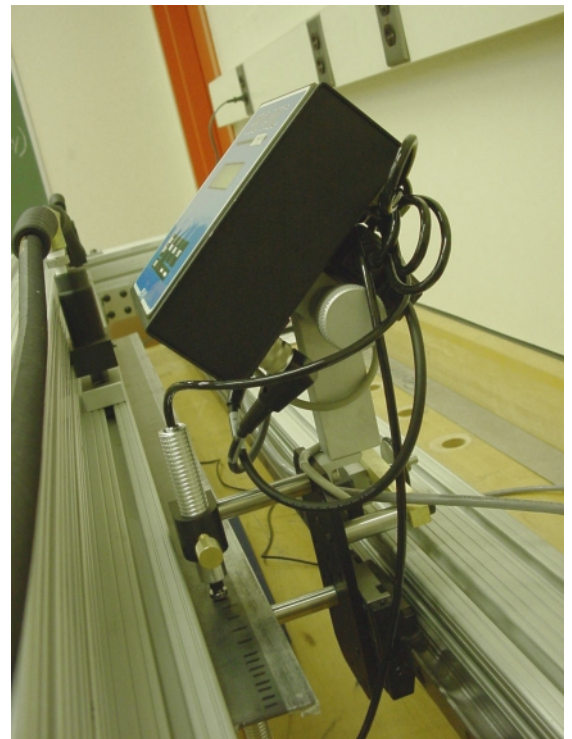
Electronic Roll Profiling Systems

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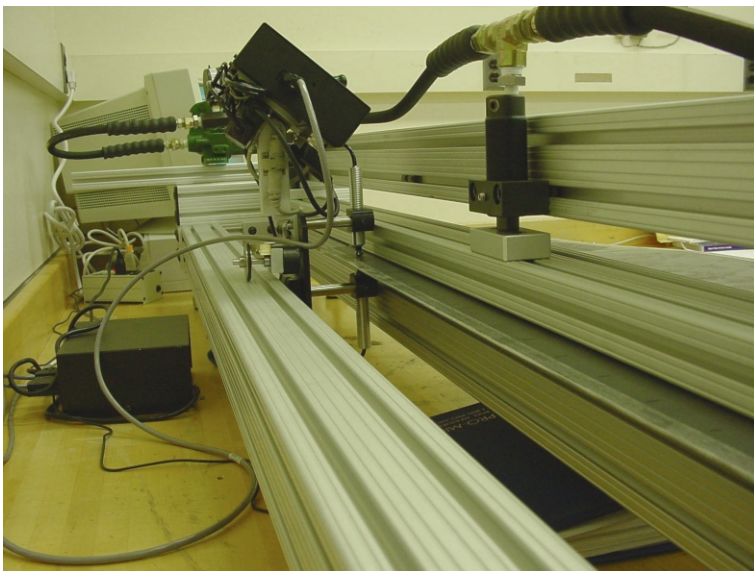
## PRO-MIC Strip Profiling Workstation



Strip in Hydraulic Clamp



Closeup of Head and Probes



PRO-MIC Probes on the Strip

PRO-MIC Corporation . 20135 Valley Forge Circle . King of Prussia, PA 19406

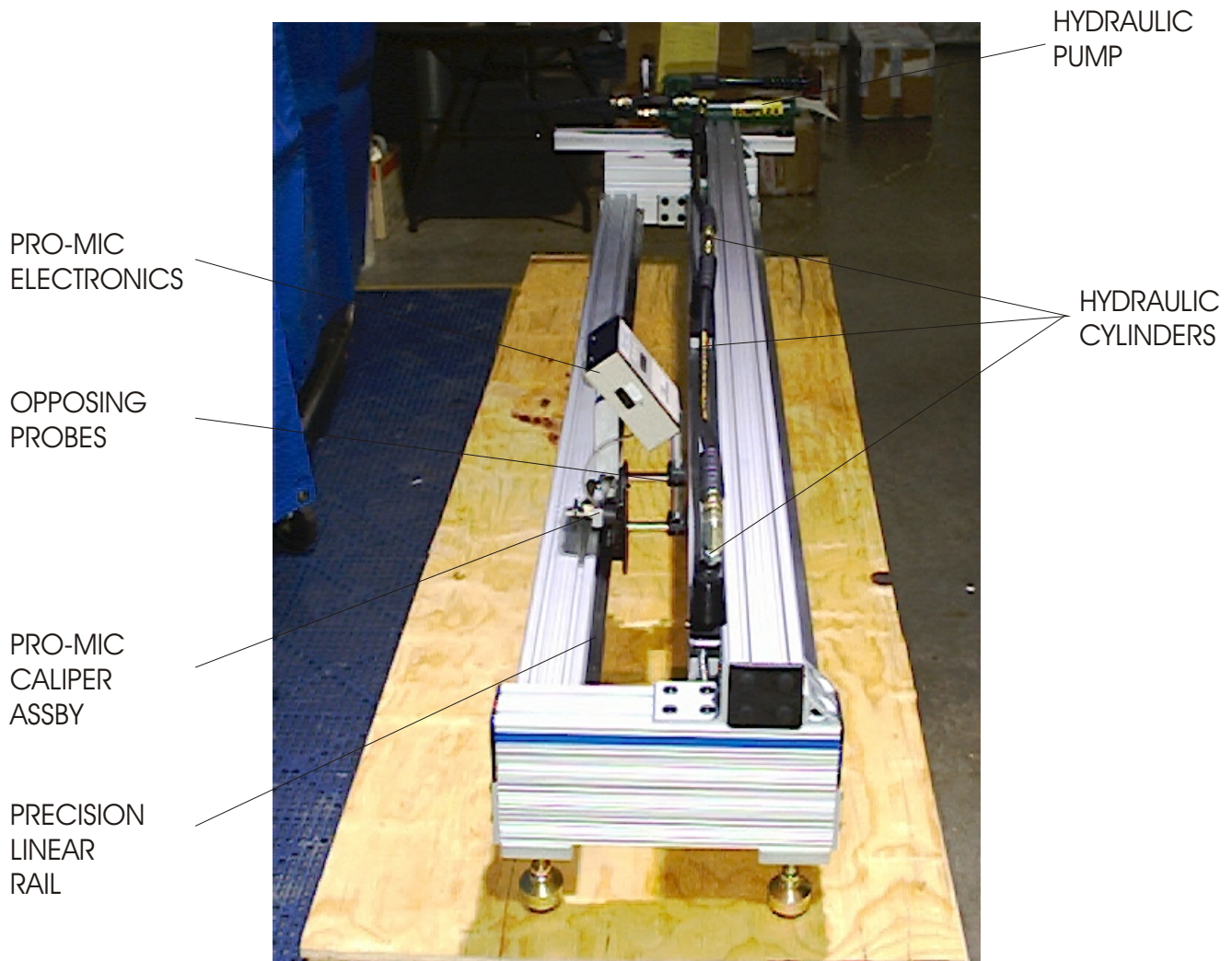
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# PRO-MIC

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## 80" PRO-MIC Strip Profiling Workstation

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