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MAGNA-MIKE®

Thickness measurements with the Magna-Mike are simple, accurate, and fast!



The Magna-Mike Model 8000 is an easy-to-use thickness gage that utilizes a magnetic method to make fast, accurate, and repeatable measurements of nonferrous materials. Measurements are made when its magnetic probe is held against one side of the test material and a small steel target ball is placed on the opposite side. The probe's Hall Effect sensor measures the distance between the probe tip and the ball, and then displays it as a digital thickness reading.

With a target ball as small as 1/16" (1.59mm) diameter, the Magna-Mike is the ideal instrument to make accurate thickness measurements in critical areas such as tight corners or grooved areas. For example, blow molders in the United States and around the world rely on the Magna-Mike to measure wall thickness of plastic bottles.

Operation is very simple. In applications such as plastic bottles or glass containers, the operator simply drops the small steel ball inside. This ball is attracted to the magnetic probe, which is either held by the operator or positioned in its bench-top holder. When an operator scans the magnetic probe along the surface or critical corners, the small ball will follow it. Other nonferrous parts such as flat sheets, panels, and packaging trays can be held or moved over the probe when positioned in its bench-top holder.

- *Proven track record of reliability*
- *Is considered the industry standard*
- *Offers excellent measurement stability*

- Easy-to-use
- Fast, accurate and repeatable results
- Finds the minimum thickness in tight corners
- Measures in the center of large parts
- Accuracy not dependent upon shape or internal properties of material being tested



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MAGNA-MIKE®

MAGNA-MIKE MODEL 8000 SPECIFICATIONS

Target Ball Diameter	Thickness Range (with standard probe)	Calibrated Accuracy
1/16" (1.59mm)	.0001-.0900" (.001-2.590mm)	±3%*
1/8" (3.18mm)	.0001-.1800" (.001-4.570mm)	±2%*
3/16" (4.76mm)	.0001-.2500" (.001-6.350mm)	±1%*
1/4" (6.35mm)	.0001-.4000" optional probe (.001-10.000mm)	±1%*

Accuracy depends upon thickness range. For detailed specifications see manual.

Min Mode:	Holds minimum thickness readings until reset
Scan Rate:	Up to 25 measurements per second, selectable
Resolution:	0.001 or 0.0001" (0.01 or 0.001mm), selectable
Display:	4-digit 7-segment LED plus two 8-character dot matrix LED
Metric/English:	Inches or millimeters, keyboard selectable
Datalogger:	Unit will store, recall, clear, and transmit up to 1000 thickness readings with ID numbers
Alarm Mode:	Programmable Hi-Low ALarm setpoints with audible and visual indicators
Data Outputs:	25 pin D female for Centronics parallel port, 25 pin D male for serial RS-232 port. Baud rate, Parity, Word Length, and Stop Bits are all keyboard selectable
Weight:	10.4 lbs. (4.6Kg)
Size:	10.2" W X 4.2" H X 10.4" L (259mm X 107mm X 264mm)
Power:	100/120/220/240 VAC, 50-60Hz or optional 8 hour rechargeable battery
Operating Temp:	0° to 50° C.

APPLICATIONS

The measurement techniques used by the Magna-Mike allow for a wide range of nonferrous materials to be measured. Below are just a few examples of where the Magna-Mike has been successfully integrated into a quality control program.

Packaging	Plastic containers Glass containers Thermoformed trays
Aerospace	Tubing Chem milled parts Composites Super plastic formed sheets
Medical	Syringes and tubing Disposable packaging
Automotive	Plastics body panels Air bag doors

STANDARD EQUIPMENT

The Magna-Mike Model 8000 Hall Effect Thickness Gage with Datalogger

- Standard 801PR Probe (including cable and stand)
- Target Ball Kit (1/16", 1/8", 3/16" dia.)
- Calibration Standards: .010"/.25mm, .04"/1.02mm, .160"/4.06mm. For measurements over .160"/4.06mm see optional accessories.
- Remote Foot Switch
- Computer Interface Program Disk
- Instruction Manual and Quick Reference Card
- Data I/O Interface Cable (Selectable)
- Complies with EMC regulations
- NIST Calibration Certificate

SPC

Statistical Process Control has become an important manufacturing tool. The Magna-Mike can help your quality control efforts in several ways. First, the Magna-Mike can store information and then download it to a computer for SPC analysis. Second, the Magna-Mike can interface with other SPC devices such as Datamyte, QMS, and Gagetalker. The option of how you want to incorporate SPC is kept open to you.

OPTIONAL ACCESSORIES

80CAL-20	.020" (.51mm) Calibration Standard
80CAL-80	.080" (2.03mm) Calibration Standard
80CAL-240	Calibration Standard .240" (6.10mm) for applications over .160" (4.06mm) thick
80CAL-NIS	NIST traced Calibration Standards
80BAT	6V, 8hr Rechargeable Battery
801PC	Spare Probe Cable (for 801PR)
801CC	Coiled 12 ft Probe Cable (for 801 PR)
802PR	Probed with second function button for large test specimens
802PR-109	Probe with extended range capability to .4000" (10.000mm)
802CC	Coiled 12 ft Probe Cable (for 802PR)
80HDC	Heavy Duty Carrying Case

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