NGO Non-contact thickness measuring solution for your production line.



RELIABLE GAUGE, WITH NO ADDED SPACE



Scan for digital download.

+1 613-287-0171 mategauge.com



LASER TRIANGULATION TECHNOLOGY FOR NON-CONTACT THICKNESS MEASUREMENT

Sensors scan across the material at a sampling rate of 1-5 kHz. The thickness is determined from the distance of both measuring heads to each other and the difference of the measured individual distances to the material to be measured.

- Automatic Thickness Reference (TR) check compensates for thermal expansion

Quick cleaning process to minimize production disruption

- Temperature control with sensor cooling technology
- Alert system for sensor dirt accumulation

Side-to-side thickness measurement across individual panel or sheet



Easy calibration every 3 months using NIST-traceable master block



mgOS SOFTWARE - PURPOSE-BUILT FOR OPERATOR EASE

Whether you're upgrading existing systems or implementing new ones, the MGO integrates with your systems through PLC connection and Ethernet ports. The Mate Gauge software filters and processes the thickness waveform to extract and record measurements and key performance indicators (KPIs). Measurement results are continuously published and displayed on a 15" HMI display.





Full thickness profile displayed

- Panel/sheet thickness measurement
- · Panel/sheet width measurement



Data Visualization

- Real-time data visualizations designed for operator ease
- Touchscreen display



Custom App

- Virtual Micrometer settings
- Ability to set thickness KPIs



Automation with PLC

 Automatic changes in thickness, settings, and scan data.



PDF and .CSV reporting

- Data file downloads for offline analysis
- Trend tracking over run-time



Alerts

Configurable alerts based on target specifications

MGO Schematics

The following schematics illustrate the standard configuration of your Mate Gauge. This configuration includes the essential components and layout designed for general applications.

Different applications and sensors types require specific adjustments to the Mate Gauge configuration. We are committed to providing solutions tailored to your specific measurement needs.



Line Unit





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MGO Technical Specifications

THICKNESS MEASUREMENT DETAILS

Resolution	0.5 µm	[0.00002 in]
Accuracy (typical)	20 µm	[0.00008 in]
Stroke	Up to 1650 mm	[65 in]
Scanning Speed	0-300 mm/sec	[0-12 in/sec]
Thickness Range	0 to 8 mm	[0 to 0.315 in]
Measurement Frequency	1 to 5 kHz	

SUPPLY REQUIREMENTS

Line Unit Power	4.4A @ 115V, 2.2A@ 230V, 50/60Hz
HMI Power	1.5A @115V, 0.8A@230V, 50/60Hz
Air Supply	1-5 CFM @ 90-110 PSI
WEIGHT	

WEIGHT

Complete Assembly	68 kg	[150 lbs]
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PHYSICAL DIMENSIONS

Main Housing	1660x585x280 mm	[65x23x11 in]
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ENVIRONMENTAL REQUIREMENTS

Operating Temperature	15 °C to 50 °C	[59 °F to 120 °F]
Humidity	80% at 31°C (88°	F) – 50% at 40°C (104°F)

PART NUMBER

Item	Part Number	Description
1	10041911	General Assembly MGO

SUPPORT AND SERVICES

Mate Gauge provides comprehensive support services to ensure optimal performance of your MGO system. From initial setup to ongoing maintenance, our team is committed to your success.



consultation



ATC.

Product setup guidance

Post-purchase support with on-call technicians

ZONES

Mate Gauge

Operator training

