Non-contact thickness measuring solution for your production line.



NO AREA IS OUT OF REACH



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.

- Belt-driven, single actuator with built-in centring
- Automatic Thickness Reference (TR) check compensates for thermal expansion
- Quick cleaning process to minimize production disruption
- Consistent thickness measurement in corrosive environments
- Continuous Virtual Micrometer measurement system
- 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 MG5 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

- Strip/sheet thickness measurement
- Strip/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



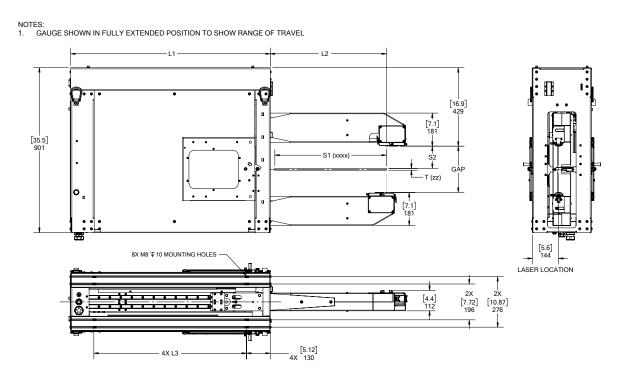
Alerts

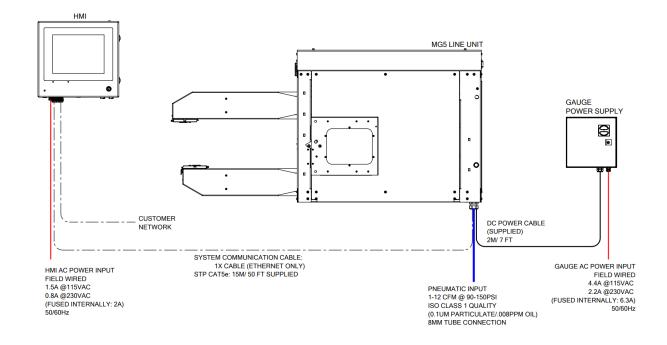
 Configurable alerts based on target specifications

MG5 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.





MG5 Technical Specifications

THICKNESS MEASUREMENT DETAILS

Sensors	50 mm Pro		
Resolution	0.5 µm	[0.00002 in]	
Accuracy (typical)	5 μm	[0.0002 in]	
Stroke range	0 to 2184 mm	[0 to 86 in]	
Scanning Speed	150 mm/sec	[6 in/sec]	
Thickness Range	0 to 13 mm	[0 to 0.5 in]	
Measurement Frequency	1 to 5 kHz		

150 mm Pro		
0.5 μm	[0.00002 in]	
7 μm	[0.0003 in]	
0 to 2184 mm	[0 to 86 in]	
150 mm/sec	[6 in/sec]	
0 to 51 mm	[0 to 2 in]	
1 to 5 kHz		

SUPPLY REQUIREMENTS

Line Unit Power	4.4A@115V/2.2A @230V
HMI Power	1.5A@115V 0.75A@230V
Air Supply	1-12 CFM @ 90-150 PSI

ENVIRONMENTAL REQUIREMENTS

Operating Temperature	5°C to 50°C	[41°F to 120°F]
Humidity	80% at 31°C (88°F) – 50% at 40°C (104°F)	



