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MATE GAUGE EDGE

A COMPACT LASER THICKNESS GAUGE FOR MOVING STRIP LINES.



Mate Gauge Edge was developed as a compact gauge for near-edge thickness measurements on moving strip materials. Mounted on the production line, the gauge automatically finds the edge and begins scanning the edge region when strip is present. The Edge provides real-time thickness feedback which can be used for process control and quality reporting. It links with your control system PLC to enable monitoring and closed loop control of processing lines.

KEY FEATURES

- Compact design- excellent fit for small production lines and factories with limited space.
- “Gauge Trace”- generates a detailed report about the thickness through the coil.
- Automation- measure the thickness profile of **an entire coil in as fast as 3 minutes.**
- Easy integration with **PLCs and Databases**
- Configurable **warnings and tolerance**
- **Approximately 3,000 points** along the full width of a scan.



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FEATURES

- ✓ NON-CONTACT MEASUREMENT
- ✓ THOUSANDS OF MEASUREMENT POINTS
- ✓ ACTIVE THERMAL CONTROL
- ✓ TOUCHSCREEN DISPLAY
- ✓ EASILY INSTALLED AND MAINTAINED
- ✓ REMOTE SUPPORT
- ✓ DATA LOGGING
- ✓ REMOTE INSTALLS AVAILABLE
- ✓ CLOUD, PLC, AND DATABASE INTEGRATION

TECHNICAL SPECIFICATIONS

THICKNESS MEASUREMENTS

Thickness Range	0.01-20 mm	0.0004 - 0.79 in
Resolution	0.0025 mm	0.0001 in
Stroke	203-330 mm	8-13 in
Belt/Strip Width	Edge Measurement Only	-

LINE SPECIFICATIONS

Line Speed Range	0-1000 ft. per minute
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WEIGHT

Sensor assembly, no stand	31 kg	68 lbs
HMI Unit	10 kg	22 lbs

SUPPLY REQUIREMENTS

Power supply input	100-240 VAC, 50-60 Hz, 2.2-4.4 A
Air	12 CFM @ 90-110 PSI

PHYSICAL DIMENSIONS

Sensor Assembly, no stand	646 x 234 x 536 mm	25.4 x 9.2 x 21.1 in
Operator HMI	400 x 400 X 118 mm	16 x 16 x 4 in

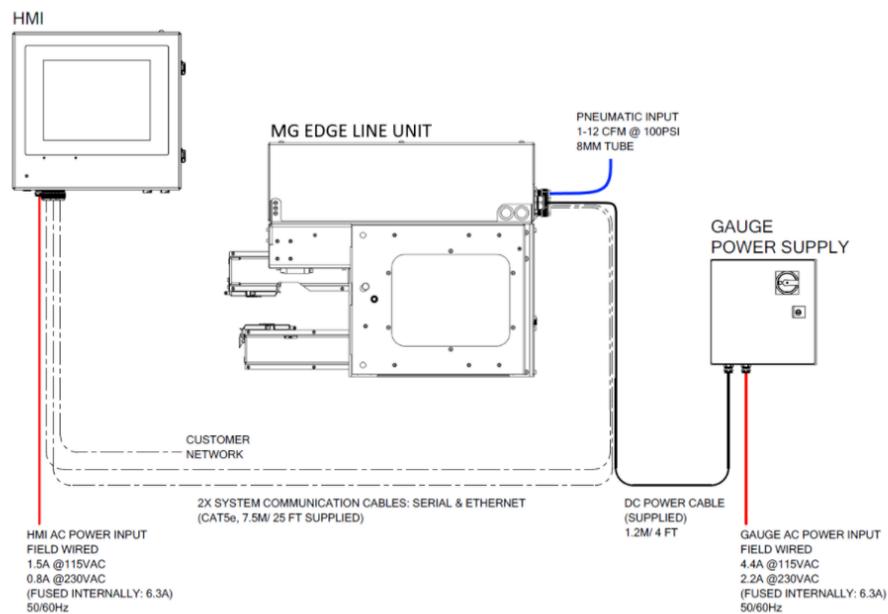
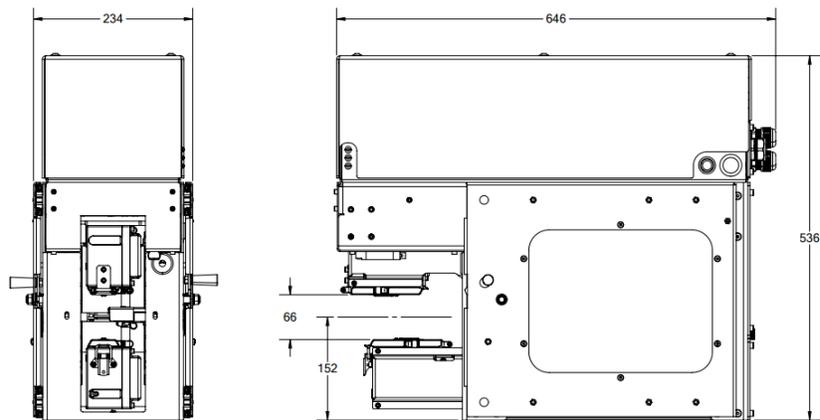
ENVIRONMENTAL

Operating temperature	15-50 C	60 F - 122 F
Humidity	80% at 31 C - 50% at 40 C	80% at 88 F - 50% at 104 F

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DIMENSIONS



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MATE GAUGE STEEL

Controls and Display Features that Simplify Quality Control

On-screen data visualizations ensure that the right data reaches line operators. The gauge display automatically connects to your existing systems to set thickness targets and key thresholds. Alarms appear on-screen with varying levels of severity (yellow tag, red tag, and flashing).

The visualizations show real-time thicknesses and run charts of multiple locations across the strip. Additional screens display cross-sectional and continuous profile thicknesses.



Large numerical display, including thickness difference



Display showing run chart during operation

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Mate Gauge EDGE- Software Features

Operation Mode	Scan Capture Scan Capture - Sample Gauge and Go Gauge and Go - Micro Scan
Measurement Filters	Outliers Working Range Deviation from recent average Deviation from target
Alarming System	Thickness Width Signal Quality Product Centering System Health
Full Line Integration	Read line status from PLC Pass measurements to PLC Include PLC status in summary file Automatic Start/Stop of Mate Gauge based on line status Automatic product change
Product Selector	Easily switch between multiple products manufactured on the same line Favourite products
User Interface	Separate UIs for Operators and Engineers Password Protected
Graphs and Visualizations	Thickness Shape Run Chart/Gauge Trace Needle Gauges (deviation from target)
Reporting	Measurement Summary file (MS Excel compatible) File Viewer (optional) Daily email report (optional)