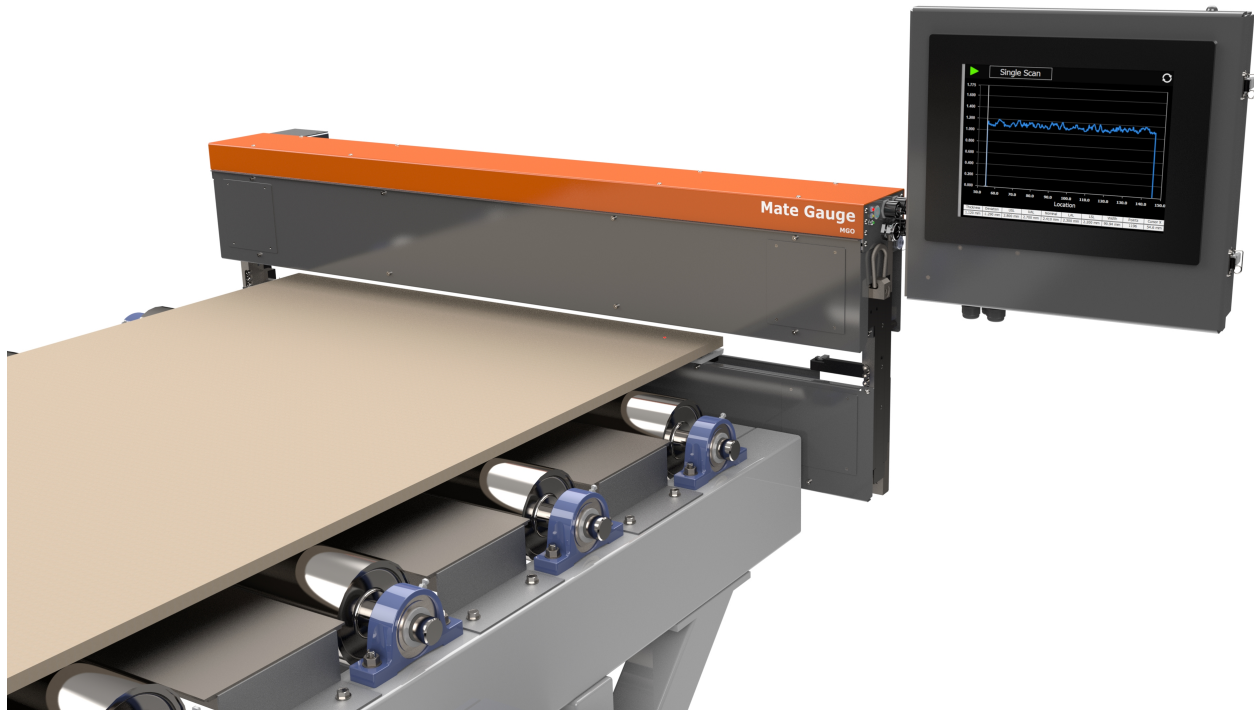


MGO

LASER THICKNESS MEASUREMENT FOR BOARDS AND PANELS

Improves thickness control with automatic thickness readings across the full panel without taking up additional floor space



KEY FEATURES

- ✓ NON-CONTACT MEASUREMENT
- ✓ "GAUGE AND GO" MEASUREMENT MODE
- ✓ REMOTE SUPPORT
- ✓ MINIMAL EXTERNAL CABLING
- ✓ DIRT DETECTION AND ALERT SYSTEM
- ✓ AUTOMATIC CORRECTION SCAN FOR O-FRAME CALIBRATION
- ✓ NO FACTORY FLOOR FOOTPRINT
- ✓ DATA LOGGING
- ✓ TOUCHSCREEN DISPLAY
- ✓ NETWORKABLE
- ✓ BOARD SCAN TRIGGER
- ✓ ON PREMISE WEB APPLICATION
- ✓ EASILY INSTALLED AND MAINTAINED

WHY CHOOSE THE MGO?

- **Laser measurement for unmatched precision:** Laser sensors measure the uneven lumber surfaces on sanding, planing, or finishing lines. Removes the need to rely on inaccurate hand micrometer measurements and line stoppages to check product quality.
- **Continuous measuring throughout the run:** Our “gauge and go” continuous measurement system enables operators and managers to monitor board thickness during the entire operation. For more detailed thickness measurement data about sections across the sample our “Zones Scan” mode enables operators to monitor thickness of individual sections of the surface.
- **Side to side thickness measurement:** Scanning laser heads measure thickness across individual boards. Avoids relying on the outside boards to control your process.
- **Mounts directly to the line:** Engineered to blend seamlessly into your production line, the MGO can be mounted anywhere along the production line. Get all the benefits of laser measurement without the added space of a C-frame.
- **PLC connection:** Engineered to blend seamlessly into your production line, the MGO can connect directly to your PLC. This makes for easy changes in thickness, settings, and scan data. With built-in Ethernet ports, it's as simple as plug in and go.
- **Monitor thickness measurement in real-time:** Our on-screen data visualizations are purpose-built for operator ease. Monitor real-time thicknesses and run charts of multiple locations across the panel. Automatically connect to your existing systems to set thickness targets and key thresholds. Be immediately notified by on-screen alarms when issues arise.
- **Keep an eye on your lines without leaving your desk:** You'll have full access to real-time measurement data, as well as the ability to track trends over run-time and perform data file downloads. All of this with ironclad security - your data is only accessible via your facility's local network using our on-premise web application.
- **Ease of use and stress-free maintenance:** The belt-driven, single actuator includes built-in centering for in-field positioning. Calibration, using the NIST-traceable master calibration block, only needs to be done once every 3 months. The laser sensors' modular design and quick electrical disconnects means, when needed, they are quickly and easily replaced. The belt-drive actuator design is familiar making it easy to maintain.
- **Monitor and reduce debris accumulation:** Sensors with air purge covers help reduce debris buildup. However, when the sensors do get dirty, our alert system makes sure you're immediately notified. Dirty sensors are easily and quickly cleaned with no disruption to your manufacturing line.

TECHNICAL SPECIFICATIONS

THICKNESS MEASUREMENTS DETAILS

Resolution	0.5 μm	[0.00002 in]
Accuracy (typical)	10 μm	[0.0004 in]
Stroke	1420 mm	[56 in]
Scanning Speed	0-300 mm/sec	[0-12 in/sec]
Thickness Range	0 to 20 mm	[0 to 0.8 in]
Measurement Frequency	1 to 5 kHz	

SUPPLY REQUIREMENTS

Power	4A @ 110V/60 Hz 2A @ 240V/50 Hz
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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	10 °C to 50 °C	[50 °F to 120 °F]
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Humidity	< 90%
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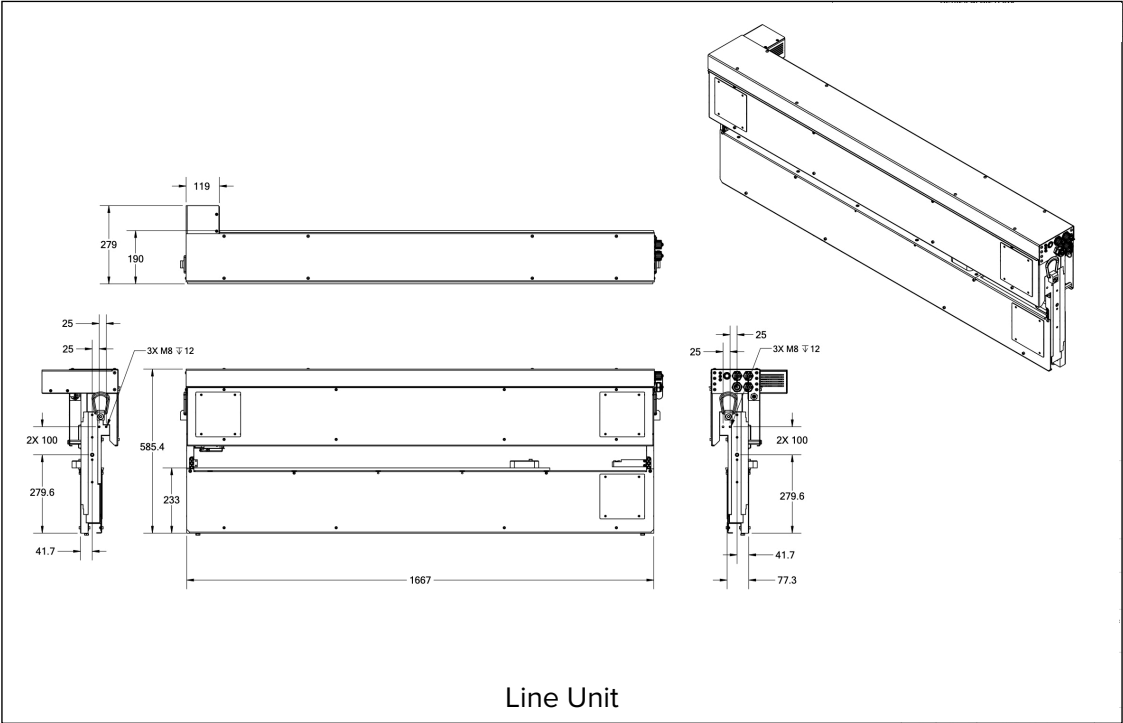
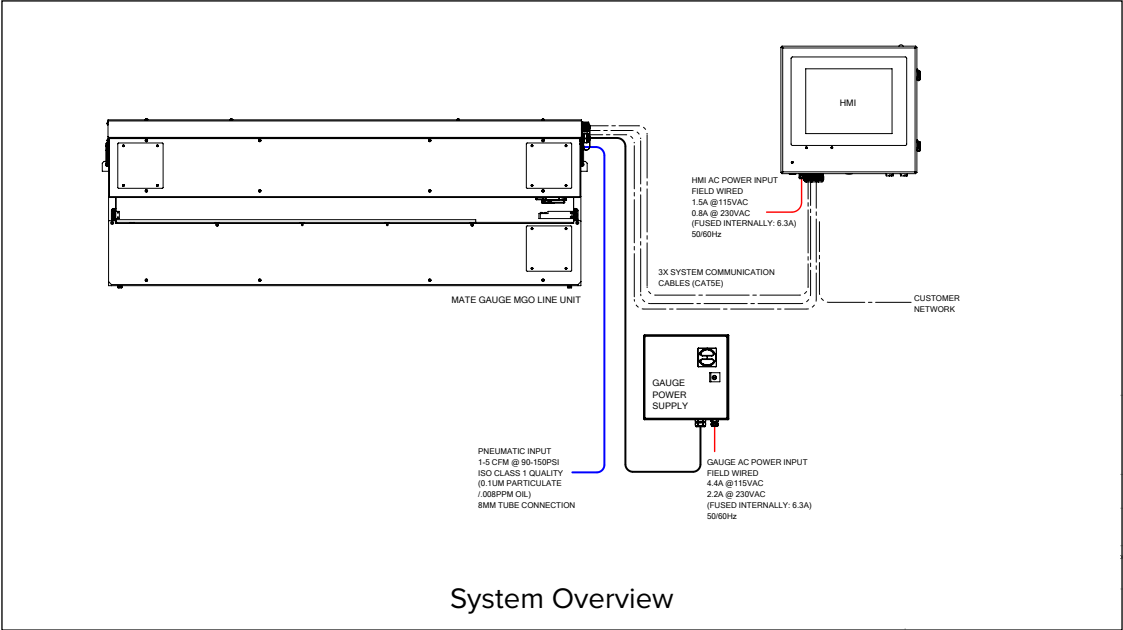
PART NUMBER

Item	Part Number	Description
1	10041911	General Assembly MGO

WHAT’S INSIDE THE BOX?

The inline system is ready to run out-of-the-box. It includes two laser sensors, O-frame, scanning belt drive system, NIST traceable calibration reference block, control electronics, and HMI with touchscreen and computing platform.

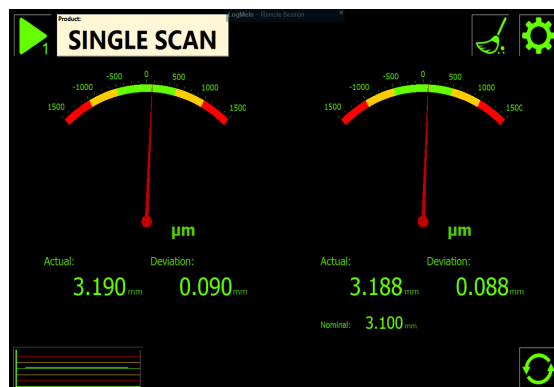
MGO



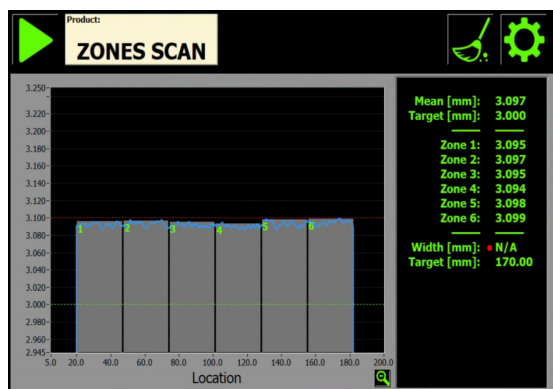
Controls and Displays Purpose-Built for Operator Ease



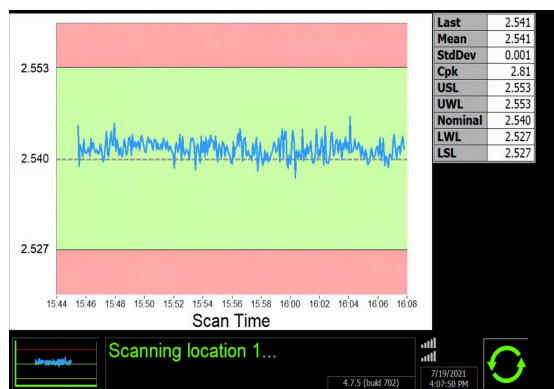
Colour Coded Numerical Display.



Left-Right Thickness Variation.



View Thickness in a Range of Zones.



See Thickness Variation Over Time.

ORDER YOURS TODAY!

Please contact info@mategauge.com and refer to Part No. 10041911

THE MATE GAUGE PRODUCT FAMILY

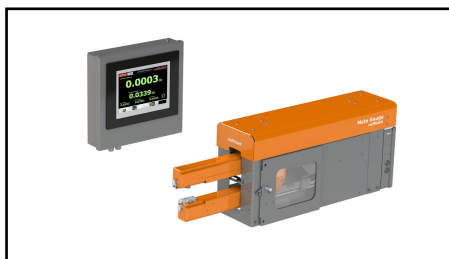
Not sure which Mate Gauge is right for you? Check out our other options.

STANDARD OPTIONS



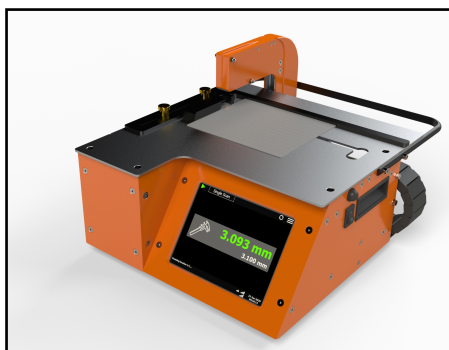
MG1: Compact and lightweight inline gauge. Provides thickness measurement solutions that fit your floorspace and your budget.

[Learn More](#)



MG3: Our flagship gauge. Tolerant of dirt and temperature swings, the MG3 provides rich data for your inline needs.

[Learn More](#)

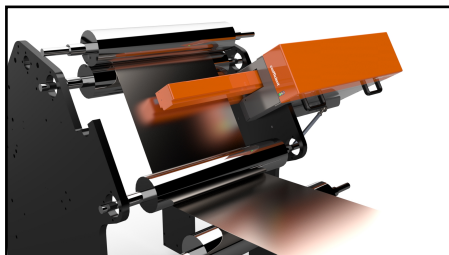


MGX: Our newest and smallest bench top. Ready to work out-of-the-box, the MGX gives you hands-free accurate measurement results.

[Learn More](#)

CUSTOM OPTIONS

Have special requirements? No worries. Our team of designers thrives on creating custom solutions to fit every situation.



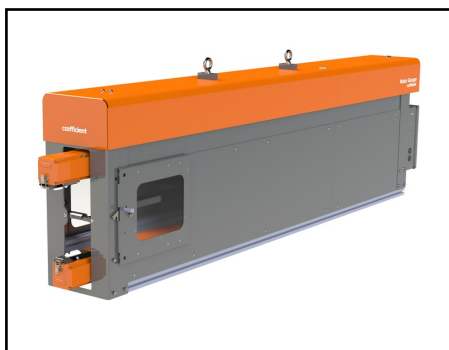
MG-CLS: Laser thickness measuring for cast lead strips. Improves lead strip thickness control with automatic measurement.

[Learn More](#)



MG Edge: Powerful features with a compact design. The MG Edge provides near-edge thickness measurement for moving strips.

[Learn More](#)



MGS: No area is out of reach. A large scale thickness scanner designed for wide continuous strip materials.

[Learn More](#)

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