

coefficient

DMS1100 DATASHEET

DMS1100

DMS1100 MEASURES AND CONTROLS CAST LEAD STRIP THICKNESS

APPLICATIONS

The DMS1100 in-line thickness control system can be adapted to fit a multitude of battery industry applications, including:

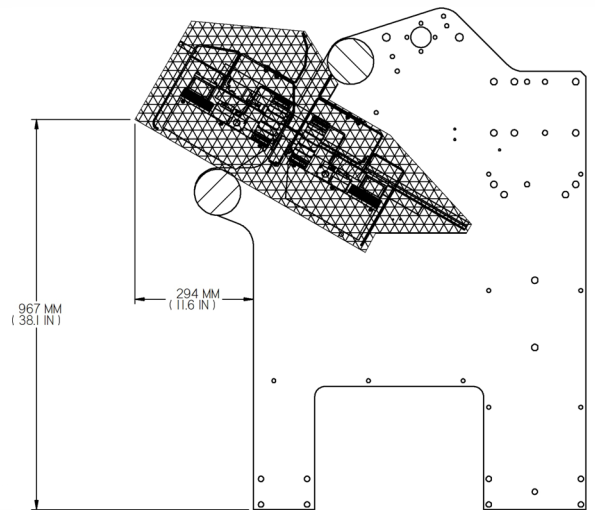
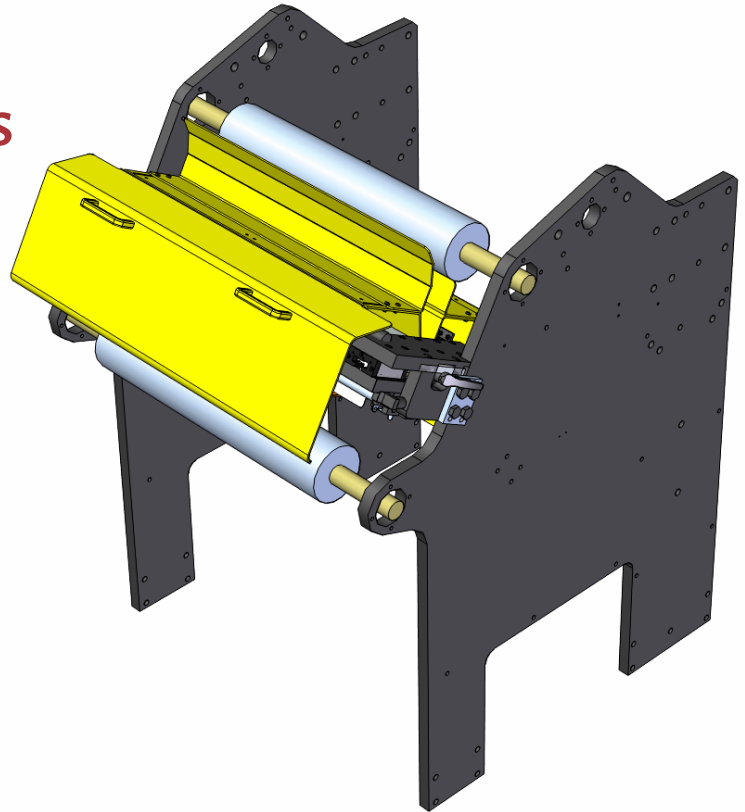
- Pasted lead Strip
- Polled lead Strip
- Lithium Ion

KEY FEATURES

- Designed for shiny, irregular surfaces
- Maintains accuracy with temperature fluctuations
- Non-contact measurement is ideal for soft and delicate materials
- Track performance of multiple locations in real-time
- Easily installed and maintained by plant staff

BENEFITS

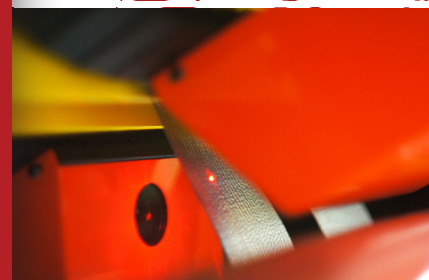
- Material cost savings of up to 5%
- Reduce battery weight by 4%
- Reduce process variation by up to 4x
- Reduce down-time



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GENERAL

- ✓ NON-CONTACT MEASUREMENT
- ✓ FULL STRIP PROFILE DISPLAYED (UP TO 4 STRIPS)
- ✓ CLOSED LOOP THICKNESS CONTROL MODULE
- ✓ ACTIVE THERMAL CONTROL
- ✓ REPORTS MAX, MIN AND MEAN THICKNESS
- ✓ REPORTS SPEED, LENGTH AND TIME OF CAST
- ✓ TOUCHSCREEN DISPLAY
- ✓ DATA LOGGING - 3 YEAR HISTORY
- ✓ EASILY INSTALLED AND MAINTAINED
- ✓ NETWORKABLE
- ✓ REMOTE SUPPORT AVAILABLE

TECHNICAL SPECIFICATION

Thickness Measurement

| | | |
|-----------------------|------------|---------------|
| Resolution | 1 µm | [0.00003 in] |
| Repeatability | 2 µm | [0.00006 in] |
| Accuracy (typical) | 10 µm | [0.0004 in] |
| Stroke | 50 cm | [20 in] |
| Scanning Speed | 50 mm/sec | [2 in/sec] |
| Thickness Range | 0 to 15 mm | [0 to 0.6 in] |
| Measurement Frequency | 3 kHz | |

Physical Dimentions

Dimensions (W x H x D)

| | | |
|------------------------|-----------------|-------------------|
| Sensor Assembly | 85 x 88 x 39 cm | [33 x 35 x 15 in] |
| Sensor Assembly (Mini) | 85 x 88 x 39 cm | [33 x 35 x 15 in] |
| Electrical Panel | 91 x 61 x 36 cm | [36 x 24 x 14 in] |

Optical

- Working Range vs. Precision: 1000:1
- Works with shiny and difuse surfaces
- Works with irregular bumpy surfaces

CUSTOM APPLICATIONS

Please contact sales@co-efficient.com if you have questions regarding how the DMS1100 can benefit your application.

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