Sheet Thickness Measurement
Non-Contact Laser & LED Technology
Thickness Gauging Systems

Automated Traversing Sensor Heads
- Measure full product width
- Programmable width travel & speed
- Multiple product libraries allow for automatic setup from part-to-part.

Multiple Static Sensor Heads
- 1 – 4 positions available (2 – 8 sensors)
- Easily adjust positions with our unique rail system

Continuously monitor and control sheet thickness in-process
- Reduce Material Waste During Start-up
- Material Savings by Maintaining Narrow Tolerance Band
- Reduce Scrap
- Improved Product Quality

MEASUREMENT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Accuracy</td>
<td>± 0.1% of range*</td>
</tr>
<tr>
<td>Measurement Rate</td>
<td>1000/sec</td>
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<tr>
<td>Range (From Nominal)</td>
<td>± .005&quot; - ± 4.00&quot; (.13mm - 100mm)</td>
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<tr>
<td>Width Capabilities</td>
<td>36&quot;, 48&quot; &amp; 60&quot; Standard, Specials Available</td>
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<tr>
<td>Thickness Capabilities</td>
<td>No Limitations</td>
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*Accuracy dependant on product range and surface texture
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Noble Tool Corp

SYSTEM CONFIGURATION

Standard Process/Controller
• RS-232 Serial
• Alarm Output
• Digital Inputs
• Analog Outputs

Optional Closed-Loop Control
• Dry-contact relay outputs
• DC junction for analog control
• Open collectors for stepper motor control

Optional Industrial PC & SPC Software Package
• 12” or 15” panel mount touch screen
• Powerful SPC analysis & reporting
• Custom U/I features available

Measurement Sensors
• Selected and configured specifically for your products
  - Laser/LED
  - Diffuse/Specular
  - Spot Size
  - Measurement Range
  - Air Purge

RS-232 DATA OUTPUT
ALARM OUTPUT
OPTIONAL PC PACKAGE
**Operating Specifications**

**Power Requirements**
90-260 VAC, 47-63 Hz

**Operating Temperature**
5-55°C (41-131°F)

**Laser**
Class II (3mW max) visible red

**Environmental**
90% RH, noncondensing

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**Input/Output Specifications**

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**RS-232 Serial Port**
(1) female DB-9

**Parallel Printer Port**
(1) female DB-25

Compatible with all common printers.

**Alarm Outputs**
(6) dry-contact relay alarm outputs

**Digital Inputs**
(7) digital inputs with voltage input options from 5 – 24 VDC to ground

**Analog Output**
(3) 12-bit analog output channels with BNC connector. Voltage output options: 0-5V, 0-10V, ±5V & ±10V. Current output option: 4-20mA.

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**OUTLINE DRAWINGS**

**Traversing Head System**

**Multi-Head Static System**