Optical measuring machine for cylindrical parts

Measuring large shafts as easily as small ones.
M2 provides improved production and reduced costs, as a practical and compact optical measuring machine for medium-sized turned parts.

**Productivity**
- Shop floor friendly
- Enclosed optics prevent possible damage during loading and unloading
- Acquire full part image with rapid vertical scan to extract key characteristics and dimensions
- Full profile view of a part acquired in seconds
- Dynamic rotational scans allow for automatic positioning
- Spot process trends before dimensions are out of tolerance

**Ease of Use**
- Easy self part recognition and self programming capabilities
- LED-illuminated loading area
- Single click activates the part program
- Dozens of part measurements are accomplished in a few seconds, resulting in detailed feedback
- Adjustable upper tailstock moves easily on a prismatic guide to accommodate various size parts
- Protective air curtain for safer measuring

**Functionality**
- Validate production and produce reports on measuring trends
- Monitor machine tool performance and wear to optimize feedback on tool offsets
- Simplify complex measurements using optional built-in cam and turbine tools

**M2 Features**
- Designed for the toughest shop floor environments with “air flow” cooling and thermal compensation for diameters and lengths
- Open top and front design provides an open work envelope making both small and large parts easier to load
- Options available for digital I/O and automation for fully automated cells

### Technical Specs for M2

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measuring range</td>
<td>600 x 140 mm</td>
</tr>
<tr>
<td>Max loading piece</td>
<td>625 x 240 mm</td>
</tr>
<tr>
<td>Measurement accuracy on diameter</td>
<td>(2+D[mm]/100) µm</td>
</tr>
<tr>
<td>Measurement accuracy on lengths</td>
<td>(5+L[mm]/100) µm</td>
</tr>
<tr>
<td>Weight</td>
<td>450 kg</td>
</tr>
<tr>
<td>Power supply</td>
<td>110 V + 50/60 Hz</td>
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<tr>
<td>Machine dimensions</td>
<td>916 x 1027 x 2000 mm</td>
</tr>
</tbody>
</table>

*Data above refers to measurement taken with a temp of 20° C on clean and reflective surfaces. Data may vary according to shape and surface condition of the pieces.*