"Quality is never an accident..."

William A. Foster
<table>
<thead>
<tr>
<th>Label</th>
<th>Units</th>
<th>Nominal</th>
<th>Up Tol</th>
<th>Down Tol</th>
<th>Actual</th>
<th>Deviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>mm</td>
<td>29.50</td>
<td>0.10</td>
<td>-0.10</td>
<td>29.33</td>
<td>-0.17</td>
</tr>
<tr>
<td>Base Legs Distance</td>
<td>mm</td>
<td>21.50</td>
<td>0.10</td>
<td>-0.10</td>
<td>21.44</td>
<td>-0.06</td>
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<tr>
<td>Central Hole Diameter</td>
<td>mm</td>
<td>3.60</td>
<td>0.10</td>
<td>-0.10</td>
<td>3.72</td>
<td>0.12</td>
</tr>
<tr>
<td>Inner Angle</td>
<td>deg</td>
<td>35.00</td>
<td>1.00</td>
<td>-1.00</td>
<td>32.92</td>
<td>-2.08</td>
</tr>
<tr>
<td>Right Wall Perpend.</td>
<td>mm</td>
<td>0.30</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Left Wall Radius</td>
<td>mm</td>
<td>185.00</td>
<td>0.10</td>
<td>-0.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Inner Wall Thickness</td>
<td>mm</td>
<td>1.50</td>
<td>0.10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Outer Arc Position</td>
<td>mm</td>
<td>0.30</td>
<td></td>
<td></td>
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</tbody>
</table>

**SFM First Article Report**

**Customer:** ABC Corp.
**Order Number:** 1221
**Part Id:** 123_DemoPart.sft
**Inspection Date:** 03/07/14

**Company:** Aluminum Extruder
**Inspection Time:** 16:07:42

**MORE THAN A CALLIPER AND AN OPTICAL COMPARATOR**

**AUTOMATED MEASUREMENT AND INSPECTION OF PROFILE GEOMETRY**
WHAT IS SFM

Scan Fit and Measure is an off-line 2D system for automated measurement and inspection of profile geometry specialized for the extrusion industries. It is based on flatbed scanners and provides precise measurement of size, position, wall thickness as well as GD&T (Geometric Dimensioning and Tolerancing). With a single button, the system scans, measures and generates pass/fail reports comparing the scanned image to the CAD model. New feature extraction functionality allows measurement even without CAD drawing. The SFM system ensures that your products achieve the standards and meet customers’ requirements and specifications. Suitable for both laboratory and shop floor inspections, the SFM can be integrated to your ERP or other management information systems.

FEATURES & BENEFITS

- One button scan, measurement and reporting
- Measurement with automatic BestFit part alignment to CAD drawing
- Measurement without CAD drawing
- Multi part measurement
- Automatic part recognition and loading of corresponding CAD drawing
- Touch screen comparator functionality
- Instant profile tolerance and inspection reports ready to be sent to clients
- Constructed features for comprehensive measurement
- Open standard for integration with information systems: connection with ODBC servers, configurable output to SPC and reporting systems
- 1 Day set-up and user training for fast implementation
- Up to 300 mm x 400 mm (12” x 16”) field of view, up to 130 mm (5”) part height
- Rugged design for shop floor operation

APPLICATIONS

Aluminum Extrusion

PVC Extrusion

Medical tubes

Gaskets

WPC Extrusion

Sheet Material
**TECHNICAL SPECIFICATIONS**

### Scanner 200

- **Maximal Measuring Area:** 130 mm x 200 mm (5” x 8”)
- **Average Measuring Speed (Multi-part):**
  - ~01:20 min per part at high resolution
  - ~00:30 min per part at low resolution
- **XY Accuracy:**
  - \( E_2 = (15 + 15L/1000) \) μm at high resolution
  - \( E_2 = (25 + 20L/1000) \) μm at low resolution
- **Maximal Part Height:** 30 mm (1”)
- **Maximal Part Weight:** 1 kg (2.2 lbs)
- **Operating Temperature:** 10°C - 35°C (50°F - 95°F)
- **System Dimensions (WxDxH):**
  - 360 x 610 x 200 mm (14” x 24” x 8”)
- **Footprint (WxD):**
  - 310 x 530 mm (12” x 21”)

### Scanner 400

- **Maximal Measuring Area:** 300 mm x 400 mm (12” x 16”)
- **Average Measuring Speed (Multi-part):**
  - ~00:15 min per part
- **XY Accuracy:**
  - \( E_2 = (20 + 20L/1000) \) μm
- **Maximal Part Height:** 130 mm (5”)
- **Maximal Part Weight:** 5 kg (11 lbs)
- **Operating Temperature:** 10°C - 35°C (50°F - 95°F)
- **System Dimensions (WxDxH):**
  - 710 x 1050 x 500 mm (28” x 41” x 20”)
- **Footprint (WxD):**
  - 600 x 620 mm (24” x 25”)

www.sfmeasure.com