The New Starrett HE400 MkIII features a 16" (400mm) screen.

**Features**

- Sturdy, all metal construction
- 16" (400mm) screen with integral hood
- Large measuring travel – 10" x 4" (254mm x 100mm)
- High precision workstage with 18.9" x 4.7" (480mm x 120mm) top plate with machined slots for easy fixturing
- Digital protractor (1 minute res.) Q-Axis for accurate angular measurements
- Quick-change, bayonet style lens mount
- Lamphouse mounted helix adjustment for accurate threadform inspection
- Available with a choice of several Quadra-Chek® readout systems
- Fine adjustment on all axes, plus zero backlash, fast traverse X-axis mechanism
- Fully retractable duplex fiber optic surface illumination
- Optical edge detection (optional)
- 10x, 20x, 25x, 31.25x, 50x, and 100x magnifications available
- Large range of accessories available
- Available with the OV², Starrett’s innovative Optical-Video Adaptor

Specifications subject to change.
Terminology

**Working Distance** is the distance between the objective lens and the component when the component is in focus.

**Field of View (FOV)** is the viewing area of the component. A 30mm FOV using a 10x lens would produce a screen image of 300mm.

**Half Field View** is the maximum size a component can be projected to the center of the screen before colliding with the lens.

**Full Field View** is the maximum size a component can be projected over the full screen before colliding with the lens.

**Projected Image** is how a component is projected onto the screen in relation to its placement on the workstage.

### Technical Specifications

- **Screen Diameter:** 16" (400mm) diameter screen with integral hood, crosslines and calibration marks
- **Workstage Measuring:**
  - Top Plate – 18.9" x 4.7" (480mm x 120mm) staging area
  - Travel – 10" x 4" (254mm x 100mm) measuring range
- **Workstage Capacity:** 55 lbs. (25kg) maximum
- **Workstage Capacity Between Centers:** 13.8" (355mm)
- **Helix Angles:** Lamphouse mounted control
- **Illumination:**
  - Profile – Fan cooled halogen with high/low intensity and yellow/green filter
  - Surface – Fully retractable duplex fiber optic system
- **Measurement Display Systems:**
  - Linear – Heidenhain .00005” (0.001mm) resolution scales
  - Quadra-Chek readout systems: QC121 with X, Y & Q, QC221 with X, Y & Q and geometric functions, QC221e with X, Y & Q, geometric functions and edge sensing
  - Angle – Digital protractor (1 min.resolution)
- **Lenses:** 10x, 20x, 25x, 50x, and 100x magnifications available

### Guide to Maximum Component Size (In inches)

<table>
<thead>
<tr>
<th>Magnification</th>
<th>10X</th>
<th>20X</th>
<th>25X</th>
<th>50X</th>
<th>100X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field of View</td>
<td>1.57</td>
<td>0.79</td>
<td>0.63</td>
<td>0.31</td>
<td>0.16</td>
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<tr>
<td>Working Distance</td>
<td>3.15</td>
<td>2.99</td>
<td>2.44</td>
<td>1.97</td>
<td>1.61</td>
</tr>
<tr>
<td>Max Work Half Field</td>
<td>9.65</td>
<td>9.65</td>
<td>10.35</td>
<td>7.28</td>
<td>4.17</td>
</tr>
<tr>
<td>Diameter Full Field</td>
<td>7.09</td>
<td>7.87</td>
<td>9.84</td>
<td>4.92</td>
<td>3.86</td>
</tr>
<tr>
<td>Projected Image</td>
<td>Vertically Correct</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

Specifications subject to change.