

# HE400 MkIII

## Horizontal Benchtop Measuring Projector



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

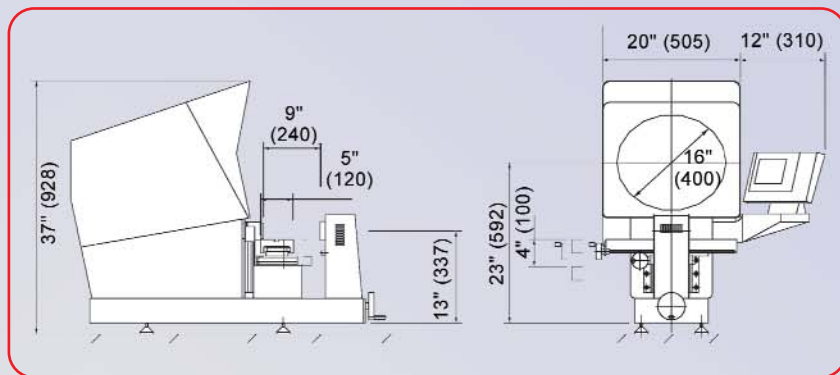
### Features

- 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 for accurate angular measurements
- 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 fibreoptic surface illumination
- Optical edge detection (optional)
- 10x, 20x, 25x, 31.25x, 50x, and 100x magnifications available
- Large range of accessories available

**Starrett®**  
Metrology Systems Division

Specifications subject to change.

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### Technical Specifications

#### 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.

**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" (250mm x 100mm) measuring range (extended X-axis available)

**Workstage Capacity:**

15.4 lbs. (7kg) negligible deflection

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 fibre optic system

**Measurement Display Systems:**

*Linear* – Heidenhain .00005" (0.001mm) resolution scales

Quadra-Chek readout systems with optional edge sensing

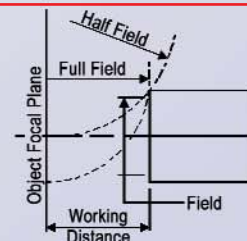
*Angle* – Digital protractor (1 minute resolution)

Quadra-Chek Q-Axis

**Lenses:** 10x, 20x, 25x, 31.25x, 50x, and 100x magnifications available

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

Magnification	X10	X20	X25	X50	X100	
Field of View	1.57	0.79	0.63	0.31	0.16	
Working Distance	3.15	2.99	2.44	1.97	1.61	
Max Work Diameter	Half Field	9.65	9.65	10.35	7.28	4.17
	Full Field	7.09	7.87	9.84	4.92	3.86
Projected Image	Vertically Correct					



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