

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 (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



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Starrett®

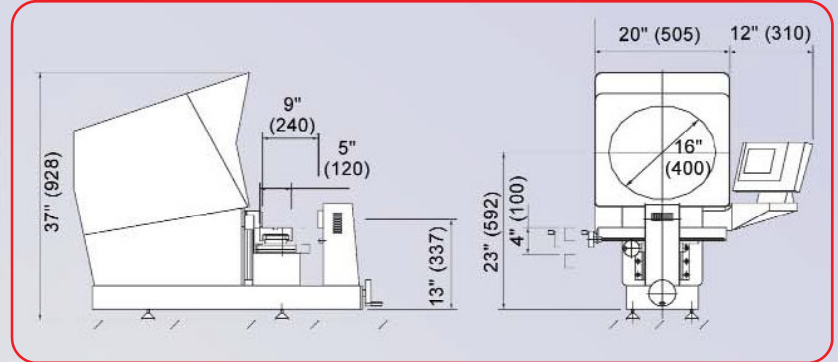
Metrology Systems Division

Specifications subject to change.

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HE400 Horizontal Benchtop Measuring Projector MkIII

Specifications & Reference



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" (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

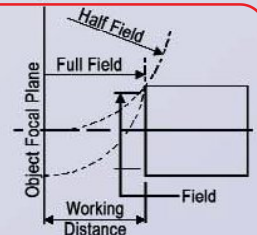
Quadra-Chek readout systems: QC121 with X, Y & Q, QC221 with X, Y & Q and geometric functions, QC221e with X, Y & Q, geometric functions and edge sensing

Angle – Digital protractor (1 min. resolution)

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

Guide to Maximum Component Size (In inches)

Magnification	10X	20X	25X	50X	100X	
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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