# HE400 MkIII

# **Horizontal Benchtop Measuring Projector**



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

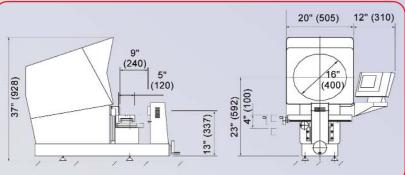
### **Features**

- 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 accesories available
- Available with the OV<sup>2</sup>, Starrett's innovative
   Optical-Video Adaptor



## Specifications & Reference





### **Technical Specifications**

Terminology

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

# of 300mm. **Half Field View** is the maximum

Working Distance is the

the component is in focus.

Field of View (FOV) is the

distance between the objective

lens and the component when

viewing area of the component.

A 30mm FOV using a 10x lens

would produce a screen image

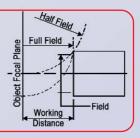
size a component can be projected to the center of the screen before colliding with the lens.

**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.

#### **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	Half Field	9.65	9.65	10.35	7.28	4.17
Diameter	Full Field	7.09	7.87	9.84	4.92	3.86
Projected Image		Vertically Correct				



Specifications subject to change.



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