### OPTICAL PROFILE PROJECTORS



**HE400** 

**HB400** 

**HD400** 

**VB400** 

**VF600** 

**HF600** 

**HF750** 

**HS600** 

**HS750** 

**HS1000** 

# **HE400** HORIZONTAL BENCHTOP OPTICAL PROJECTOR





This machine offers a 400mm screen, 250mm x-axis table travel, bayonet fitting lenses and Q-axis angular readout; all to improve capacity and performance.

This latest horizontal projector is fitted with the industry leading Quadra-Chek or Metlogix digital readout systems as standard, making it simplicity itself to use, but having the power to satisfy the most complex of measuring requirements.

It is very competitively priced and built to the same mechanical standards as the rest of the Starrett range of projectors.

### **Features & Specifications**

- Available with a choice of the new Metlogix M2 or Quadra-Chek readout systems (as shown).
- Fully usable 400mm / 16" diameter screen with precision cross lines, overlay clips and integral hood.
- Large measuring travel: 254mm / 10" X-axis, 100mm / 4" Y-Axis.
- Fully retractable duplex fibre optic surface illumination.
- Fine adjustment on all axes, plus zero backlash, fast traverse mechanism on the X-axis.
- Exceptionally stable, all metal construction for optimum performance and accuracy.
- Lamphouse mounted helix adjustment for accurate threadform inspection.
- High precision workstage with 480 x 120mm / 18.9 x 4.7" top plate, with machined slot for easy fixturing.
- Stage weight capacity: 25kg / 55lbs (evenly distributed).
- 10x, 20x, 25x, 31.25x 50x and 100x lenses available.
- Screen driven rotary Q axis.
- 0.001mm resolution linear Heidenhain scales.
- Automatic edge detection option.
- Purpose built support cabinet available as an option.
- Large range of accessories available, including screen overlay templates.
- Power supply 110 / 120 / 230 / 240 / 250V AC 50 / 60Hz.

Starrett

**HE400** 

## Starrett HE400

#### **M2 Touchscreen Readout**

The Metlogix M2 readout has a broad range of powerful, user-friendly functions on a compact, icon based touchscreen interface in place of the traditional control.



#### **Quadra-Chek Readouts**

The Quadra-Chek readout range is considered as the industry standard for the precision measurement and inspection of geometric components.

Their design reflects a deep understanding of user needs, with an intuitive user interface and simple, meaningful visual

displays; innovations that improve operator productivity, reduce errors and save time and money.



CDECIFICATION	QUADRA-CHEK							METLOGIX	
SPECIFICATION:	SR121	SR221	SR221e	QC321	QC321e	SR515	M2	M2e	
Touchscreen operation				•	•		•	•	
Angular digital measurement in readout	•	•	•	•	•	•	•	•	
X-Y-Q axis only digital readout	•								
Geometric function digital readout		•	•	•	•	•	•	•	
Computer with geometric s/ware readout.						•			
On screen edge sensing			•		•	•		•	

### Field of View 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 centre of the screen before

colliding with the lens.

Full Field View: Is the maximum size a component can be

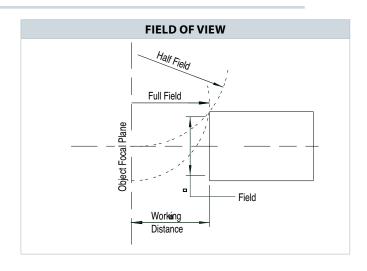
projected over the full screen before colliding

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 (MM)											
MAGNIFICATION		X10	X20	X25	X50	X100					
Field of View		40	20	16	8	4					
Working Distance		80	82	70	53	43					
Max Work Diameter	Half Field	145	148	138	154	134					
	Full Field	148	148	150	130	100					
Projected Image		Fully reversed									



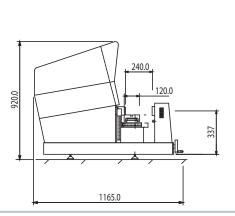
## Starrett HE400

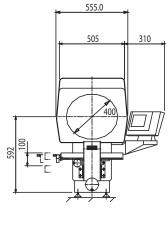
#### **HE400 Dimensions**

HE400 dimensions are as listed in the image, all measurements are in millimetres.

Gross Weight: 135kg. Nett Weight: 105kg.

Shipping dimensions: 120 x 80 x 127cm.

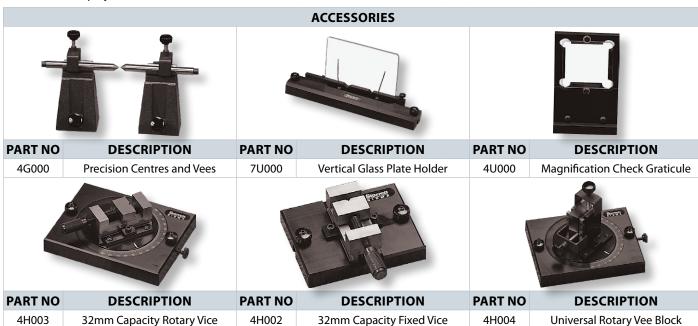




#### **Accessories**

Starrett manufacture a comprehensive range of fixtures and accessories to suit our full range of profile projectors.

Each accessory is made from the highest quality material and is machined, assembled and inspected to the same stringent quality standards as the projector itself.







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