

# OPTICAL PROFILE PROJECTORS

HE400

HB400

HD400

**VB400**

VF600

HF600

HF750

HS600

HS750

HS1000

L.E.D. PROFILE LIGHTING AND  
L.E.D. SURFACE ILLUMINATION  
FITTED AS STANDARD!



## **VB400** VERTICAL BENCHTOP OPTICAL PROJECTOR



# Starrett®

METROLOGY **S**OLUTIONS

[www.starrett-precision.co.uk](http://www.starrett-precision.co.uk)



Having a large measuring capacity, the new VB400 has the versatility to be at home in many differing working environments: ideal for high volume or low batch production or on routine component sampling, perfect for the general purpose tool room.

Uniquely in the optical projector market, the lighting on the new VB400 is LED driven, providing clearer, sharper light and outstanding imagery of the surface of an object.

### Features & Specifications

- Available with a choice of the new Metlogix M2 or Quadra-Chek readout systems (as shown).
- Fully usable 400mm / 16" diameter vertically mounted screen with precision cross lines, overlay clips and integral hood.
- Large measuring travel: 200mm / 8" X-axis, 100mm / 4" Y-Axis.
- Fast traverse, quick release mechanism on X and Y axis.
- LED profile lighting and LED surface illumination fitted as standard.
- Exceptionally stable, all metal construction for optimum performance and accuracy.
- High precision workstage with 400 x 225mm / 16 x 8.875" top plate, with two machine slots for easy fixturing.
- Stage weight capacity: 10kg / 22lbs (evenly distributed).
- 10x, 20x, 25x, 31.25x 50x and 100x lenses available.
- Screen driven rotary Q axis.
- 0.001mm resolution linear scales, upgrade to Heidenhain scales available as an option.
- 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.

## 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.



### READOUT OPTIONS

SPECIFICATION:	QUADRA-CHEK						METLOGIX	
	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			•		•	•		•
Functions •								

## Field of View Terminology:

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

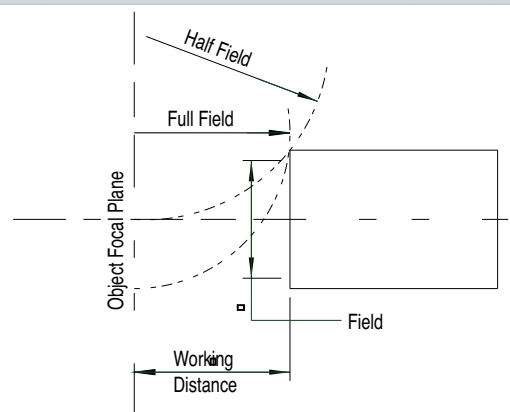
**Field of View (FOV):** Is the viewing area of the component. A 30mm FOV using a 10x lens would produce a screen image of 300mm.

**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.

### FIELD OF VIEW



### GUIDE TO MAXIMUM COMPONENT SIZE (MM)

MAGNIFICATION		X10	X20	X25	X50	X100
Field of View		40	20	16	8	4
Working Distance		80	76	62	50	41
Max Work Diameter	Half Field	140	140	140	140	106
	Full Field	140	140	140	125	98
Projected Image		Correct Vertical, Reversed Horizontal				

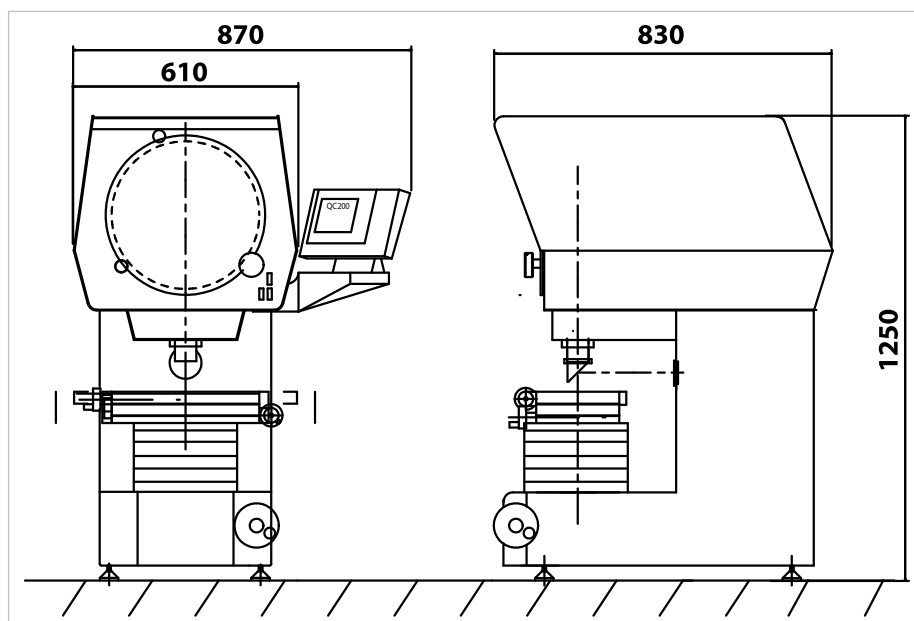
## VB400 Dimensions

VB400 dimensions are as listed in the image, all measurements are in millimetres.

Gross Weight: 170kg.

Nett Weight: 145kg.

Shipping dimensions: 120 x 80 x 146cm.



## 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.

### ACCESSORIES

					
PART NO	DESCRIPTION	PART NO	DESCRIPTION	PART NO	DESCRIPTION
3V000	Helix Centre Support Fixture	6H000	Precision Centres and Vees	6U003	Precision Rotary Workstage

### PROJECTOR SUPPORT CABINET

	
PART NO	DESCRIPTION
10L000	Standard Projector Support Cabinet with single fixed shelf.

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