

OPTICAL PROFILE PROJECTORS

HE400

HB400

HD400

VB300

VB400

VF600

HF600

HF750

HS600

HS750

HS1000

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



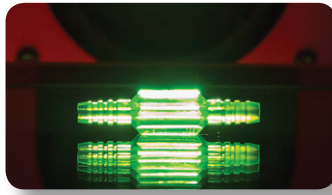
VB300 VERTICAL BENCHTOP OPTICAL PROJECTOR



Starrett®

METROLOGY **S**OLUTIONS

www.starrett-precision.co.uk



The VB300, another projector built to Starrett's trademark formula:

High specification + Low price : Value for money.

This vertical bench-top projector has been designed to meet the demands of modern industry. It is ideal for the rapid inspection of small light weight components, pressings, plastic mouldings, electronic components, small turned parts etc.

Features & Specifications

- Available with a simple integrated LED readout display (as shown) or choice of the new Metlogix or Quadra-Chek geometric readout systems.
- Fully usable 300mm / 12" diameter upright screen with precision cross lines, overlay clips and integral hood.
- Measuring travel: 100mm / 4" 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 225 x 225mm / 9 x 9" top plate, with two machine slots for easy fixturing.
- Stage weight capacity: 5kg / 11lbs (evenly distributed).
- 10x, 20x, 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.
- All Starrett Optical Profile Projectors have lens magnifications set and calibrated to the following accuracies:
Profile: $\pm 0.05\%$.
Surface Illumination: $\pm 0.10\%$.

M1 Touchscreen Readout

Graphics rich display, large icon buttons and intuitive operation: Coordinate display for X and Y linear axes and Q radius values for screen rotation. East part alignment and datum function.

Metlogix M1 operates on an Android operating system and uses a Bluetooth connection to the host optical projector.



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.

The M2 software and the touchscreen interface are supplied separately, allowing users to purchase the interface in local markets if required.



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.



SPECIFICATION:	READOUT OPTIONS						
	INTEGRAL LED READOUT	QUADRA-CHEK		METLOGIX			
		SR221	SR221e	M1	M1E	M2	M2e
Touchscreen operation				•	•	•	•
Angular digital measurement in readout	•	•	•	•	•	•	•
X-Y-Q axis digital readout	•	•	•	•	•	•	•
Geometric function digital readout		•	•	•	•	•	•
On screen edge sensing			•		•		•
Functions •							

Field of View Terminology:

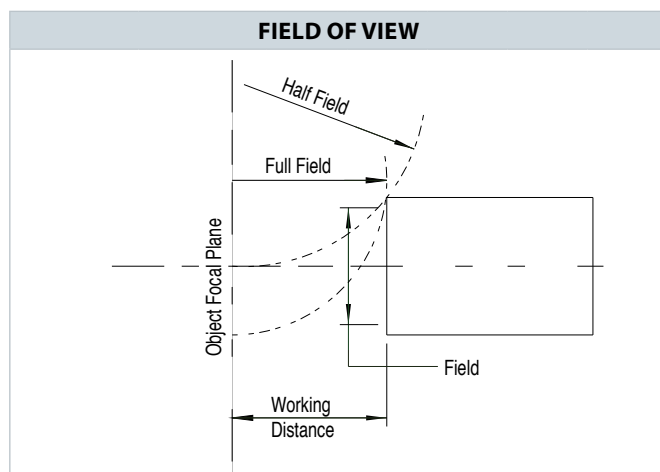
Working Distance: Is the distance between the objective lens and the component when the component is in focus.

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.



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				

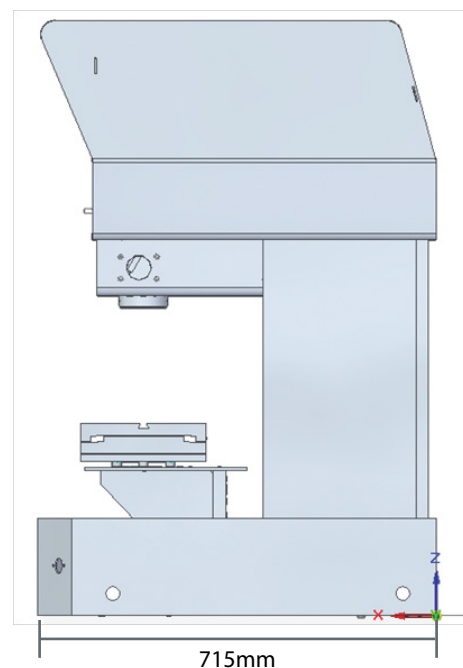
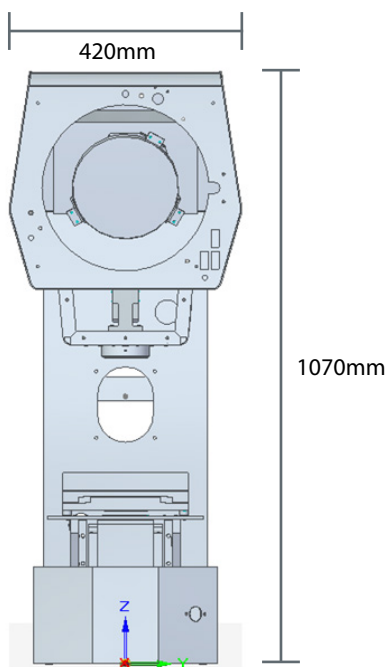
VB300 Dimensions

VB300 dimensions are as listed in the image, all measurements are in millimetres.

Gross Weight: 165kg.

Nett Weight: 145kg.

Shipping dimensions: 120 x 81 x 125cm.

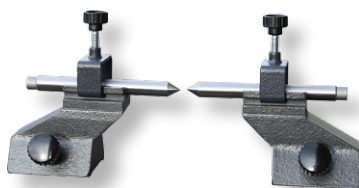


Accessories

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
10L000	Standard Projector Support Cabinet with single fixed shelf.	6H000	Precision Centres and Vees.

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