VB300

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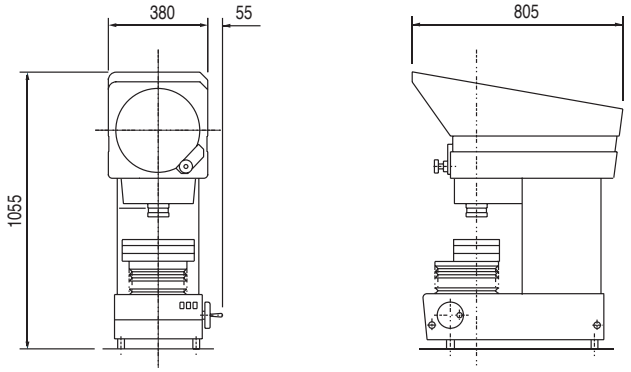

Vertical Bench Top Optical Projector

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.

- Rigid all metal construction.
- Fully usable 300mm (12") diameter vertically mounted screen, with integral hood.
- Electronic digital protractor.
- Precision workstage with 270mm x 175mm top plate.
- Available with the full range of Quadra-Chek readout systems.
- Fast traverse, quick release mechanism on X and Y axis.
- Quick action single lens mount.
- On-axis and twin arm fibre optic surface illumination options available.
- Comprehensive range of multi-element precision ground lenses.
- Large range of accessories available.

Technical Specification

Screen Diameter
300mm (12") with precision cross lines, calibration markings and overlay clips.

Workstage
Top plate - 270 x 175mm (10.6 x 6.9").
Glass insert - 200 x 115mm (8 x 4.5").
Measuring Travel - 150mm x 70mm (6 x 2.8").

Focus
100mm (4").

Component Weight Capacity
5kg (11lb).

Illumination
Profile - Fan cooled, halogen, switchable high/low intensity with yellow/green filter.
Surface - On axis and twin arm fibre optic options.

Measurement/display systems
Linear - Heidenhain scales (0.001mm resolution). Quadra-Chek readout systems with edge sensing option.
Angle - Digital protractor (1 minute resolution).

Lenses
x10, x20, x25, x $31^{1}/_{4}$, x50, x100.

Power Supply
110/120/230/240/250V.AC 50/60Hz.
Consumption 5A.

Visit our Web-Site at www.starrett-precision.co.uk

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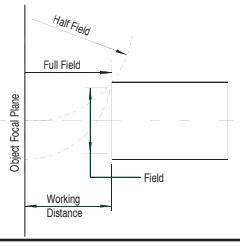
VB300 Specification:	SR120	SR220	SR220e	SR405	SR405 CNC
Rigid steel body	●	●	●	●	
Standard workstage 150 x 70mm travel	●	●	●	●	
Extended workstage					
Anti-corrosion nickel plated workstage top					
Rotary screen & clips	●	●	●	●	
Handwheel X and Y drive control	●	●	●	●	
Motorised joystick control					
CNC control					
Angular digital protractor	●	●	●	●	
Angular digital measurement in QC DRO					
X-Y axis only digital readout	●				
Geometric function digital readout		●	●		
Computer with geometric s/ware readout.				●	
On screen edge sensing			●	●	
Internal edge sensor					
Single interchangeable lens mount	●	●	●	●	
Dual lens slide					
Multi lens turret					
Fibre optic surface illumination	○	○	○	○	
On-axis surface illumination	○	○	○	○	
Single condenser					
Dual condenser slide	●	●	●	●	
Multi condenser turret					
Yellow/green light filter	●	●	●	●	
Available lenses (See guide below)	○	○	○	○	
X5 magnification lens					
X31¼ magnification lens option	○	○	○	○	
Standard or deluxe support cabinet	○	○	○	○	
Canopy and curtains	○	○	○	○	
Work holding accessories	○	○	○	○	
Magnification checking graticule	○	○	○	○	
OV² Optical video adaptor					
Screen overlay templates	○	○	○	○	

Standard ● Optional ○

Guide to Maximum Component Size (mm)							
Magnification		**X5**	**X10**	**X20**	**X25**	**X50**	**X100**
Field of View		N/A	30	15	12	6	3
Working Distance		N/A	80	76	62	50	41
Max Work Diameter	Half Field	N/A	160	160	160	144	106
	Full Field	N/A	160	160	160	125	98
Projected Image		Fully Reversed					



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.*

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