

HB400

Horizontal Benchtop Measuring Projector

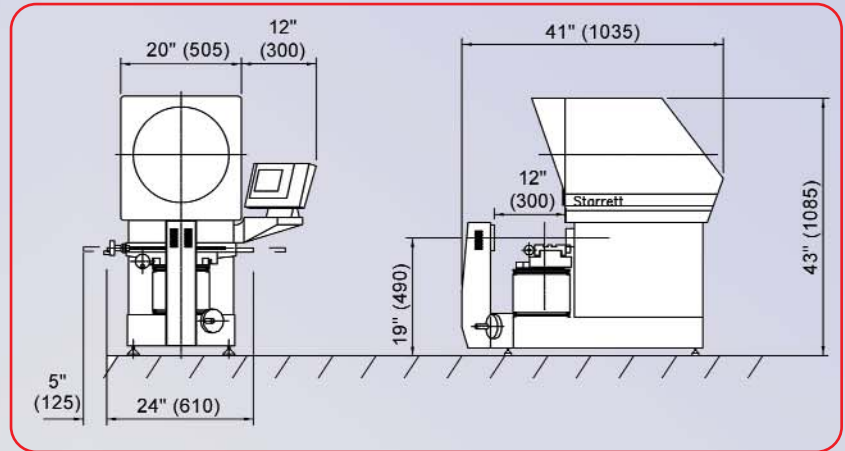


The compact and robust HB400 features a 16" (400mm) screen diameter and a 10" x 6" (250 x 150mm) measuring range

Features

- Rigid and stable heavy-duty, metal construction
- Vertically correct image
- Fully useable 16" (400mm) diameter screen
- Nickel-plated steel stage with cross roller bearings
- Dual fixturing slots
- Screen-mounted overlay chart clips
- Heavy duty cast iron workstage
- Twin-bundle, adjustable on-axis, fiber optic surface illumination
- Operator glare shields for surface illumination
- Rotary workstage helix adjustment
- Quick-change, bayonet style lens mount
- Threadless X-axis quick release for "zero" backlash
- Protective guideway covers for X and Y axes
- Optical edge detection (optional)
- Available as manual, motorized, and CNC
- Choice of Quadra-Chek® readout systems
- Available with the OV², Starrett's innovative Optical-Video Adaptor

Specifications subject to change.



Technical Specifications

Screen Diameter: Fully useable 16" (400mm) diameter screen with crosslines and calibration marks

Workstage Measuring:

Top Plate – 17.75" x 4.75" (451mm x 121mm) staging area
Travel – 10" x 6" (250mm x 150mm) measuring range (extended X-axis available)

Workstage Capacity:

110 lb. (50 kg) maximum

Workstage Capacity Between Centers:

12" (305mm)

Helix Angles: Helix angle stage adjustable $\pm 15^\circ$

Illumination

Profile – Fan Cooled Dual intensity (hi/low) tungsten halogen profile with yellow/green filter

Surface – Fan cooled fiber optic system

Measurement Display Systems:

Linear – Heidenhain .00005" (0.001mm) resolution scales

Quadra-Chek readout systems with optional edge sensing

Angle – Built-in digital protractor with DD/DMS conversion (1 minute resolution)

Quadra-Chek Q-Axis

Lenses: 10x, 20x, 25x, 31.25x, 50x, and 100x magnifications available

Specifications subject to change.

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.

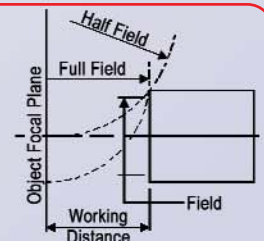
Half Field View is the maximum size a component can be projected to the center of the screen before colliding with the lens.

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



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