

Starrett®

Precision, Quality, Innovation

HB400

Vision Measurement Systems

Optical Comparators

Software



HORIZONTAL BENCH-TOP OPTICAL COMPARATOR HB400

The HB400 Optical Comparator provides exceptional performance with a 16" (400mm) diameter viewing screen, LED lighting, and 110lbs (50kg) workstage load capacity. Available with optical and/or video edge detection which removes operator subjectivity in locating edges of parts being measured. A bayonet style lens mounting system accepts a choice of six fixed interchangeable lenses as well as the OV2 Zoom or TOV2 fixed telecentric magnification video camera systems. Motorized stage, fully automatic CNC controls and swing-away lamp house are all optional features. This comparator provides performance previously only available with floor standing models.

FEATURES AND SPECIFICATIONS

- 16" x 6" X-Y travel workstage (400mm x 150mm)
- All metal construction with hard-anodized stage tooling plate
- Single bayonet-style lens mounting system
- Collimating condenser with yellow/green filter and provision to mount further accessories
- Linear encoder (glass scale) with 20µin (0.5µm) resolution on both X and Y axes
- LED profile and surface illumination
- Fixed duplex fiber optic surface illumination
- Digital protractor for accurate angle measurement (1' resolution) via Q-axis readout
- Available with MetLogix™ M1 tablet, M2 or M3 measuring software touch-screen and PC, or Mx-Series digital readout.
- Fine adjustment on all axes
- Quick release mechanism on the X-axis

OPTIONS

- Six interchangeable fixed magnification lenses including 10x, 20x, 25x, 31.25x, 50x and 100x
- Optional 5x fixed or interchangeable lens system available by special order
- Automatic optical edge detection
- Automatic video edge detection (available only with OV2 or TOV2 video cameras and M3 software)
- OV2 Video Camera with 6.5:1 zoom lens
- TOV2 Telecentric Video Camera with choice of 0.3x or 0.5x fixed magnification lens
- Motorized X and Y axes
- Fully automatic CNC controls
- Swing-away lamp house
- Canopy and curtains- free standing design (see Pg. 51)
- Purpose built cabinet stand
- Extensive line of accessories



Optional 5x Lens

OPERATOR INTERFACE

Feature	M1	M2	M3	Mx100	Mx200
Optical edge detection (Option)	x	x	x	—	x
Geometric Functions	x	x	x	—	x
Graphic Based Constructions	—	x	x	—	x
Tolerancing	—	x	x	—	x
Data export reporting	x	x	x	x	x
Part programming and playback	—	x	x	—	x
Operating system	MLX Android™	MS Windows®	Windows®	MLX Android™	MLX Android™
Part view display	—	x	x	—	—
Feature annotation	—	x	x	—	—
CNC drive option	—	—	x	—	—
Video edge detection (option)	—	—	x	—	—
CAD file import and export option	—	—	x	—	—
Software developer	MetLogix™	MetLogix™	MetLogix™	MetLogix™	MetLogix™

SPECIFICATIONS

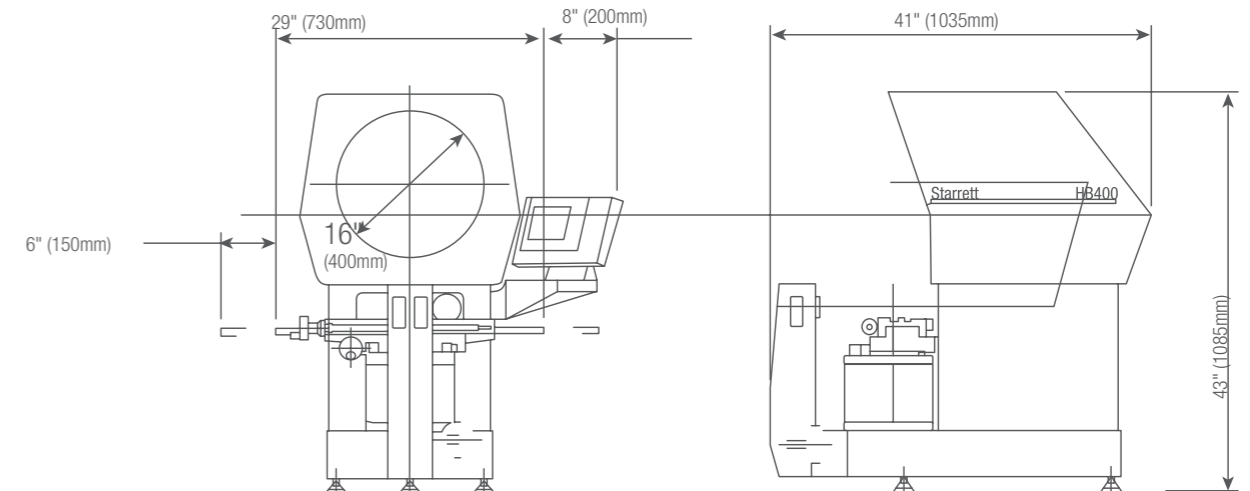
	HB400
Horizontal Travel	16" (400mm)
Vertical Travel	6" (150mm)
Focus Travel	2" (50mm)
Top Plate*	21" x 5" (530mm x 120mm)
Image	Erect and reversed

*With machined slots for easy fixturing

WEIGHT AND DIMENSIONS

	HB400
Net Weight	320lbs 145kg
Shipping Weight	385lbs 175kg
Shipping Dimensions	49" x 32" x 51" (125cm x 81cm x 130cm)

HB400 DIMENSIONS



Click the QR code to view the HB400

STARRETT PRODUCT LINES

Band Saw Blades

Force Measurement

Jobsite & Workshop Tools

Laser Measurement

Metrology Equipment

Precision Granite

Precision Ground Solutions

Precision Measuring Tools

PTA & Hand Tools

Service

Webber Gage Blocks

METROLOGY SYSTEMS



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