

Starrett®

Precision, Quality, Innovation

METROLOGY SYSTEMS

THE HB400

Vision Systems

Vision Inspection Systems

Optical Comparators

Software



HORIZONTAL BENCH-TOP OPTICAL COMPARATOR

HB400

The HB400 provides exceptional performance with a 16" (400mm) diameter viewing screen and high 110lb workload capacity. Single bayonet-style lens mount accepts a choice of interchangeable fixed lenses or choice of video camera system. Available with optional Optical and/or Video edge detection, optional motorized X-Y axes, or fully automatic CNC controls, this comparator provides performance previously only available with floor-standing models.

OPERATOR INTERFACE

Feature	MetLogix™			Quadra-Chek®		
	M1	M2	M3	QC121	QC221	QC5200
Mounted to comparator arm	x	x		x	x	x
Color graphics	x	x	x			
Touch screen operation	x	x	x			
MS Windows®/Android operating system	Android	Windows	Windows			
X-Y-Q axis digital readout	x	x	x	x	x	x
2D geometry software with skew	x	x	x	x	x	x
Optical edge detection option	x	x	x	x	x	x
Video edge detection option			x			x
CAD file import and export option			x			x
CNC drive option		x	x		x	x
Software developer	MetLogix™	MetLogix™	MetLogix™	Metronics / Heidenhain	Metronics / Heidenhain	Metronics / Heidenhain



SPECIFICATIONS

HB400	
Horizontal Travel	12" (300mm)
Vertical Travel	6" (150mm)
Focus Travel	2" (50mm)
Top Plate*	21" x 5" (530 x 120mm)
Image	Erect and reversed

*With machined slots for easy fixturing

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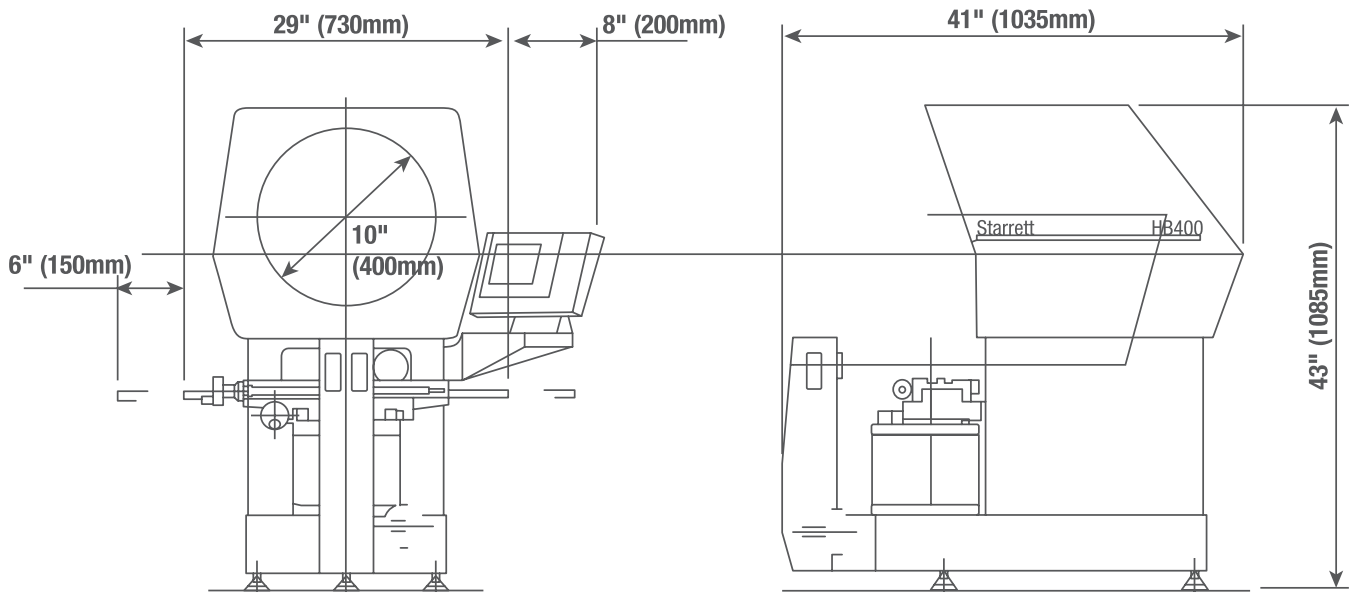
FEATURES AND SPECIFICATIONS

- 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) 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 PC-based touch screen measuring software or Quadra-Chek® digital readout system
- 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 lens system available by special order
- Optional extended travel workstage 16" (400mm)
- Automatic optical edge detection
- Automatic video edge detection (available only with OV2 or TOV2 video cameras)
- OV2 Video Camera with 6.5:1 zoom lens
- TOV2 Telecentric Video Camera with choice of 0.16x, 0.3x or 0.5x fixed magnification lens
- Motorized X and Y axes
- Fully automatic CNC controls
- Swing-away lamp house
- Canopy and curtains (designed to mount on cabinet stand)
- Purpose built cabinet stand
- Extensive line of accessories

HB400 DIMENSIONS



WEIGHT AND DIMENSIONS

	HB400
Net Weight	320lbs 145kg
Gross Weight	385lbs 175kg
Shipping Dimensions	49" (L) x 32" (W) x 51" (H)

STARRETT PRODUCT LINES

Band Saw Blades

Force Measurement

Material Test

Jobsite & Workshop Tools

Laser Measurement

Metrology Equipment

Precision Granite

Precision Ground Solutions

Precision Measuring Tools

PTA & Hand Tools

Roundness Measurement

Service

Webber Gage Blocks

METROLOGY SYSTEMS



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Catalog 81

Metrology Systems

01/16

5M/TP

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