

HORIZONTAL BENCH-TOP OPTICAL COMPARATOR

HD400

DUAL LENS

The HD400 is a dual lens optical comparator offering a two-lens mount allowing instant switching between two magnification lenses or video camera adaptor. The HD400 is equipped with a 16" (400mm) travel workstage as standard. Optional automatic edge detection or video edge detection removes operator subjectivity in locating edges of parts being measured. A bayonet style lens mounting system accepts a choice of six interchangeable lenses as well as our 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.

OPERATOR INTERFACE

Feature	MetLogix™			Quadra-Chek®	
	M1	M2	M3	QC221	QC5200
Mounted to comparator arm	x	x		x	
Color graphics	x	x	x		
Touch screen operation	x	x	x		
Operating system	Android	Windows®	Windows®		
X-Y-Q axis digital readout	x	x	x	x	x
2D geometry software with skew	x	x	x	x	x
Optical edge detection option	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



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SPECIFICATIONS

HD400	
Horizontal Travel	16" (400mm)
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





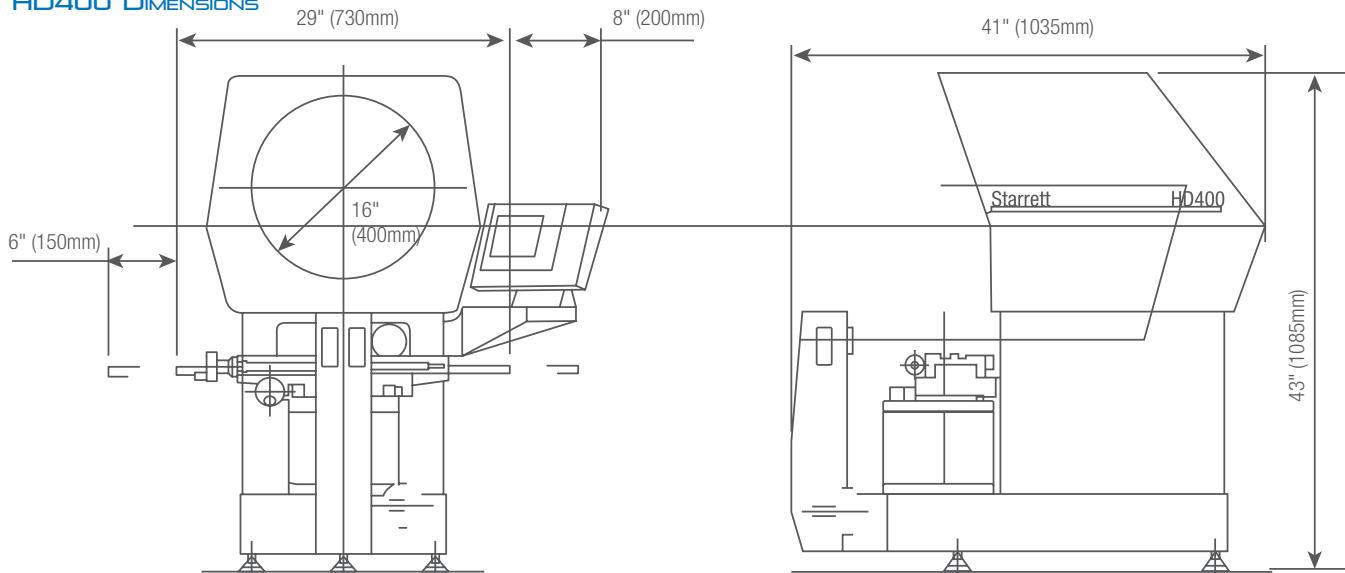
FEATURES AND SPECIFICATIONS

- All metal construction with hard-anodized stage tooling plate
- 16" (400mm) diameter screen
- Dual-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
- Fully retractable flexible duplex fiber optic surface illumination
- Digital protractor for accurate angle measurements (1' resolution) via Q-axis readout
- Helix adjustment for accurate thread form inspection
- 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
- 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 Starrett cabinet stand)
- Purpose built cabinet stand
- Extensive line of accessories

HD400 DIMENSIONS



WEIGHT AND DIMENSIONS

	HD400
Net Weight	320lbs 145kg
Shipping Weight	385lbs 175kg
Shipping Dimensions	49" (L) x 32" (W) x 51" (H)

