

Precision, Quality, Innovation

METROLOGY SYSTEMS

THE HD400 BENCHTOP OPTICAL COMPARATOR

Optical Comparators

Readouts

Software



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 magnifications lenses or video camera adapter. 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 five interchangeable lenses as well as our OV2 Zoom or TOV2 fixed telecentric magnification video camera systems. Motorized stage and swing-away lamp house are all optional features.

FEATURES AND SPECIFICATIONS

- 16" x 6" (400mm x 150mm) X-Y travel workstage
- 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) with 20µin (0.5µm) resolution 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[™] M2 all-in-one touchscreen PC. M3 PC with touchscreen monitor, or Mx-Series digital readout.
- Fine adjustment on all axes
- Quick release mechanism on the X-axis

OPERATOR INTERFACE

Feature	M2	M3	Mx200
Optical edge detection (Option)	\checkmark	\checkmark	\checkmark
Geometric Functions	\checkmark	\checkmark	\checkmark
Graphic Based Constructions	\checkmark	\checkmark	\checkmark
Tolerancing	\checkmark	\checkmark	\checkmark
Data export reporting	\checkmark	\checkmark	\checkmark
Part programming and playback	\checkmark	\checkmark	\checkmark
Operating system	MS Windows®	Windows®	MLX Android [™]
Part view display	\checkmark	\checkmark	-
Feature annotation	\checkmark	\checkmark	-
Video edge detection (option)	-	\checkmark	-
CAD file import and export option	-	\checkmark	-
Software developer	MetLogix™	MetLogix™	MetLogix™

Click the QR code to view the HD400

Starrett

SPECIFICATIONS

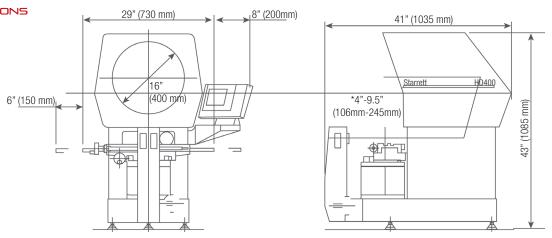
	HD400
Horizontal Travel	16" (400mm)
Vertical Travel	6" (150mm)
Focus Travel	2" (50mm)
Top Plate*	21" x 5" (530mm x 120mm)
Image	Vertically correct

*With machined slots for easy fixturing

OPTIONS

- Five interchangeable fixed magnification lenses including 10x, 20x, 25x, 50x and 100x
- 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, 0.5x, or 1.0x fixed magnification lens
- Motorized X and Y axes
- Swing-away lamp house
- Canopy and curtains
- Purpose built cabinet stand
- Extensive line of accessories

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HAVE THE BEST
LENS AND AN OV
EASILY INTERC
HD400 Dimensions





VOUAL LENS ✓LED LIGHTING STANDARD VIDEO CAMERA COMPATIBLE OF BOTH WORLDS WITH A TRADITIONAL /2/TOV2 VIDEO CAMERA ON ONE SYSTEM.

WEIGHT AND DIMENSIONS			
		HD400	
Net Weight		320lbs	
Not Worght		145kg	
Shipping Wei	iaht	385lbs	
ompping worgin	igint	175kg	
Shipping Dim	nensions	49" x 32" x 51" (125cm x 81cm 130cm)	



HANGEABLE WITH THE BAYONET LENS

MOUNTING SYSTEM

*Distance refers to range of the maximum size a component can be projected to the center of the screen starrettmetrology.com before colliding with the lens. (100X-10X)

Starrett offers a full range of accessories and purpose-built cabinet stands designed for our optical comparator systems to ensure efficient system setup for a broad range of applications.



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