

Starrett®

Precision, Quality, Innovation

HD400

Vision Measurement Systems

Optical Comparators

Software

Starrett®
400 SERIES

Live Video
Stage F
X
Y



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 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 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.

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™ M1 tablet, M2 or M3 PC-based touch screen measuring software or Mx-Series 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
- 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

OV Lens



HD400



Click the QR code to view the HD400



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

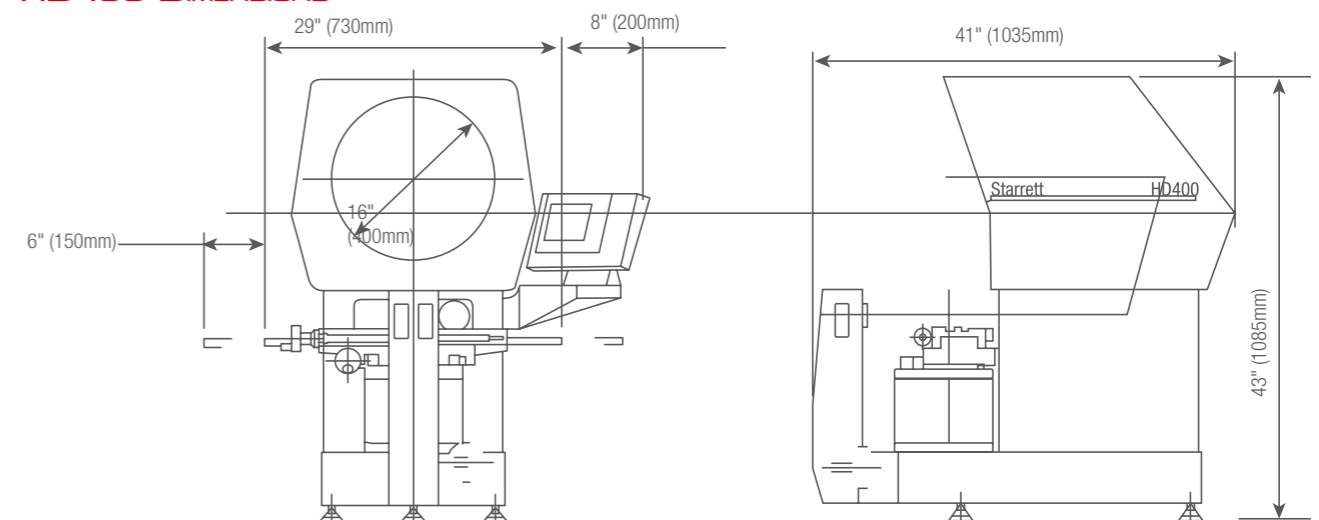
	HD400
Horizontal Travel	16" (400mm)
Vertical Travel	6" (150mm)
Focus Travel	2" (50mm)
Top Plate*	21" x 5" (530mm x 120mm)
Image	Erect and reversed

*With machined slots for easy fixturing

WEIGHT AND DIMENSIONS

	HD400
Net Weight	320lbs 145kg
Shipping Weight	385lbs 175kg
Shipping Dimensions	49" x 32" x 51" (125cm x 81cm 130cm)

HD400 DIMENSIONS



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



Follow us!



www.starrett-metrology.co.uk

Starrett®

Phone: 00 44 (0)1835 863501 | Email: Metrology@starrett.co.uk
Oxnam Road, Jedburgh TD8 6LR Scotland UK