

Starrett®

Precision, Quality, Innovation

METROLOGY SYSTEMS

THE HD400

Vision Systems

Vision Inspection Systems

Optical Comparators

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 magnification lenses or video camera adapter. Optional automatic edge detection or video edge detection removes operator subjectivity in locating edges of the part being measured. The HD400 can also be equipped with optional extended stage travel to 16" (400mm), motorized stage or fully automated CNC controls.

OPERATOR INTERFACE

Feature	MetLogix™			Quadra-Chek®	
	M1	M2	M3	QC221	QC5200
Mounted to comparator arm	x	x		x	x
Color graphics	x	x	x		
Touch screen operation	x	x	x		
MS Windows® operating system	x	x	x		
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			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

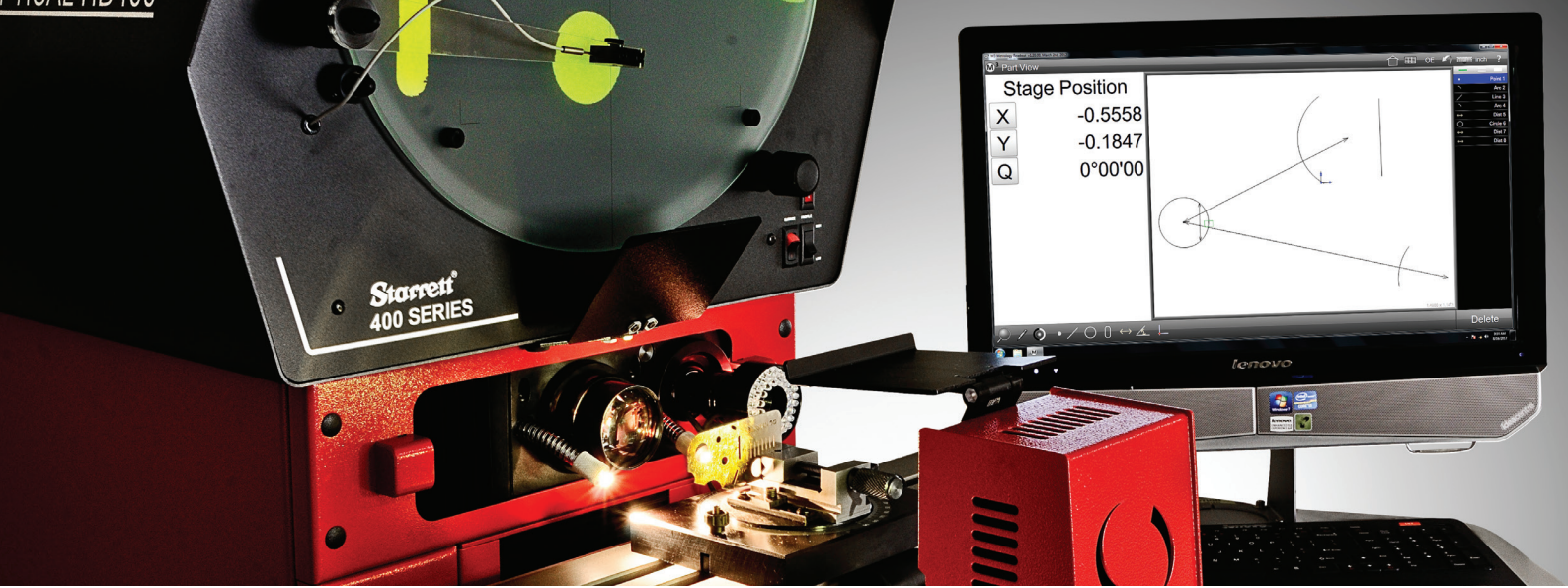


SPECIFICATIONS

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

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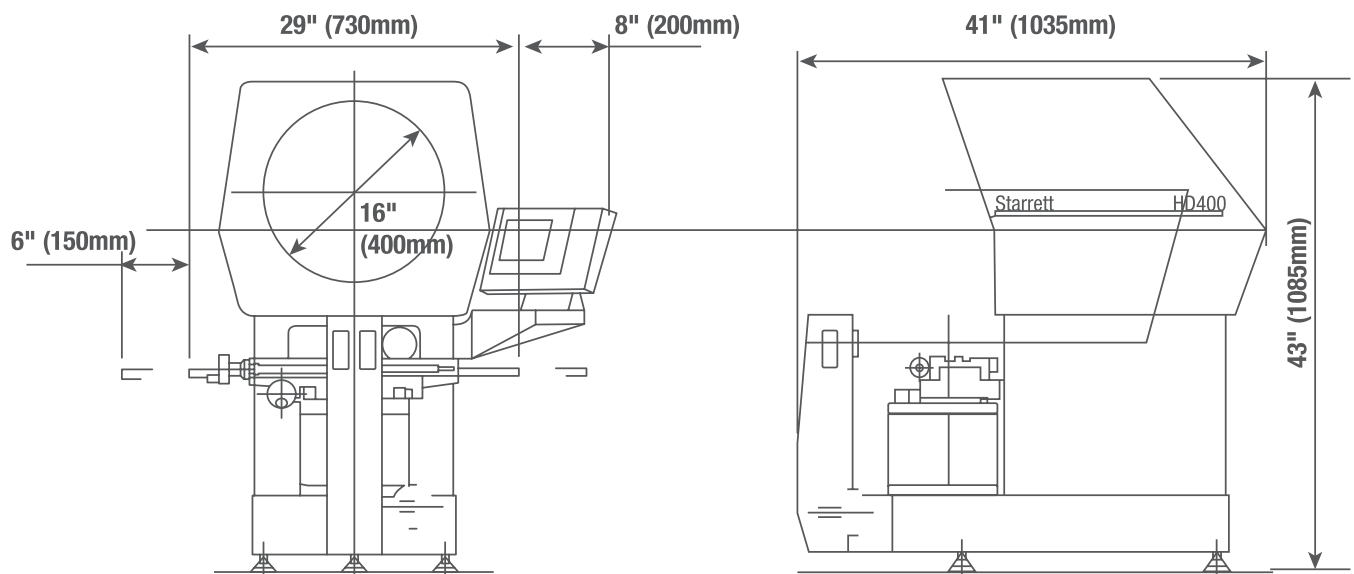
FEATURES AND SPECIFICATIONS

- 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
- Digital protractor for accurate angle measurements (1' resolution) via Q-axis readout
- Helix adjustment for accurate thread form inspection
- Available with MetLogix 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
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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