

Starrett®

Precision, Quality, Innovation

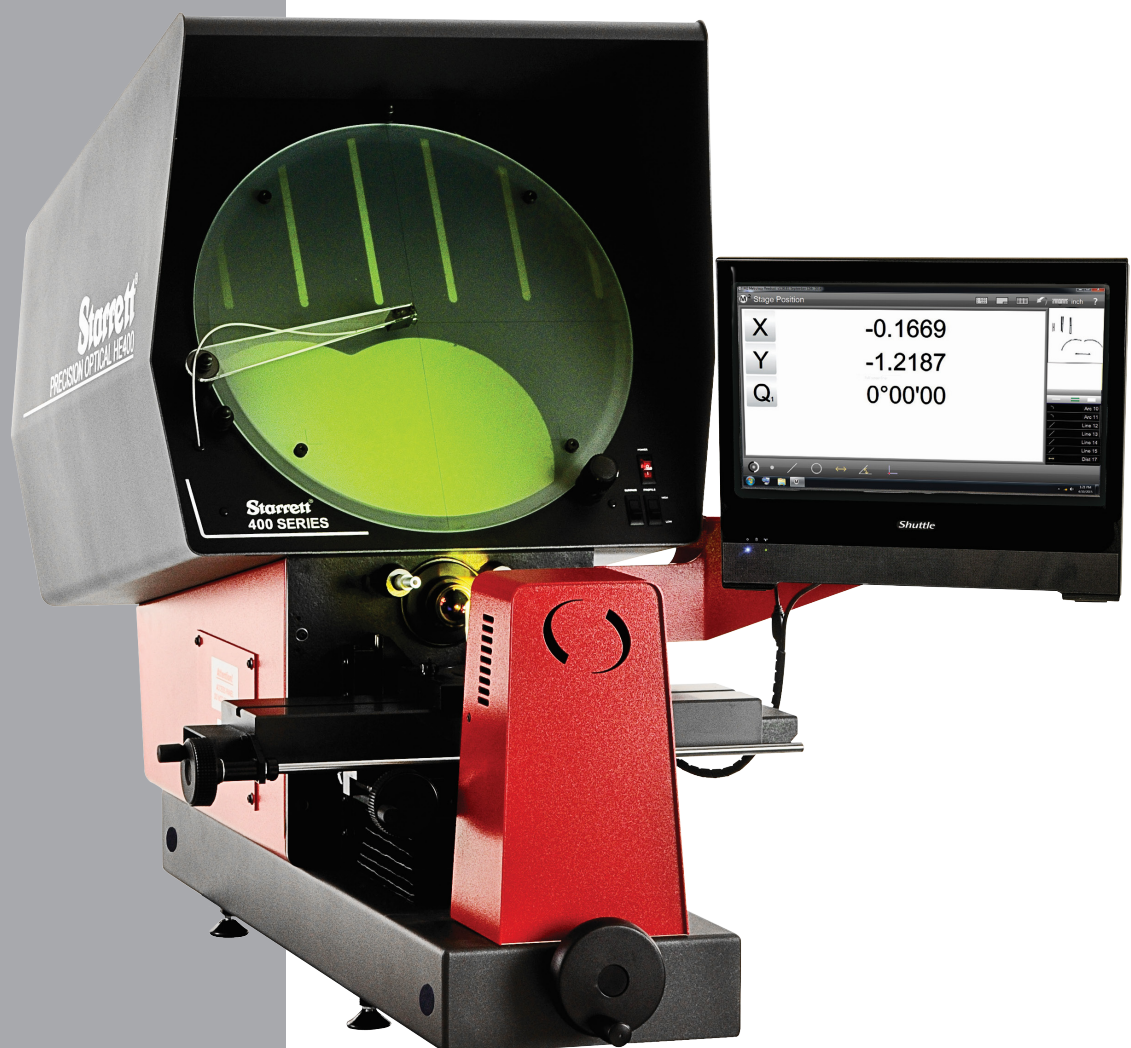
METROLOGY SYSTEMS

THE HE400 BENCHTOP OPTICAL COMPARATOR

Optical Comparators

Readouts

Software



HORIZONTAL BENCH-TOP OPTICAL COMPARATOR

HE400

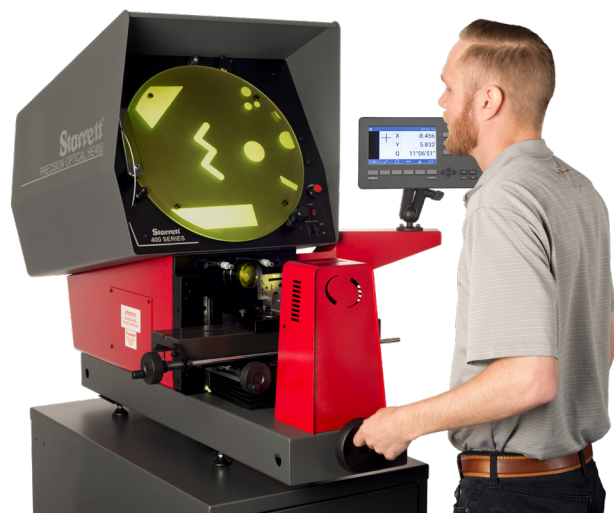
The most economical of our bench top comparators, the HE400 offers a 16" (400mm) diameter screen, 10" x 4" (250mm x 100mm) X-Y stage travel, LED lighting, choice of five bayonet-style interchangeable lenses and Q-axis angular readout: all to improve capability and performance. These latest horizontal comparators are fitted with MetLogix™ M2, or Mx-Series measuring software digital readout systems, making them simple to use, but having the power to satisfy the most complex measuring requirements.

FEATURES AND SPECIFICATIONS

- All metal construction
- Single bayonet-style lens mounting system
- Collimating condenser with yellow/green filter and provision to mount further accessories
- Linear encoder (glass scale) with 1µm on both X and Y axes
- LED profile and surface illumination
- Fully retractable flexible duplex fiber optic surface illumination
- Digital protractor for accurate angle measurement 1' resolution
- Available with MetLogix™ M2 PC-based touch screen measuring software, Mx100 or Mx200 digital readout system
- 55lb (25kg) load capacity
- 18.75" x 4.74" (480mm x 120mm) precision workstage top plate with machined slot for easy fixturing
- 10" x 4" (254mm x 100mm) of XY stage travel
- 1-1/8" (8mm) focus travel
- Fine adjustment on all axes
- Quick release mechanism on the X-axis

OPTIONS

- Five interchangeable fixed magnification lenses including 10x (included), 20x, 25x, 50x and 100x
- Automatic fiber optic edge detection
- Canopy and curtains
- Purpose built cabinet stand
- Extensive line of accessories



✓ LED LIGHTING
 ✓ 16" SCREEN
 ✓ 10" X 4" TRAVEL

OPERATOR INTERFACE

Feature	M2	Mx100	Mx200
Optical edge detection (Option)	✓	–	✓
Geometric Functions	✓	–	✓
Graphic Based Constructions	✓	–	✓
Tolerancing	✓	–	✓
Data export reporting	✓	✓	✓
Part programming and playback	✓	–	✓
Operating system	MS Windows®	MLX Android™	MLX Android™
Part view display	✓	–	–
Feature annotation	✓	–	–
Software developer	MetLogix™	MetLogix™	MetLogix™

Click the QR code to view the HE400



SPECIFICATIONS

	HE400
Horizontal Travel	10" (250mm)
Vertical Travel	4" (100mm)
Focus Travel	1-1/8" (28mm)
Top Plate*	18.75" x 4.7" (480mm x 120mm)
Image	Inverted and reversed

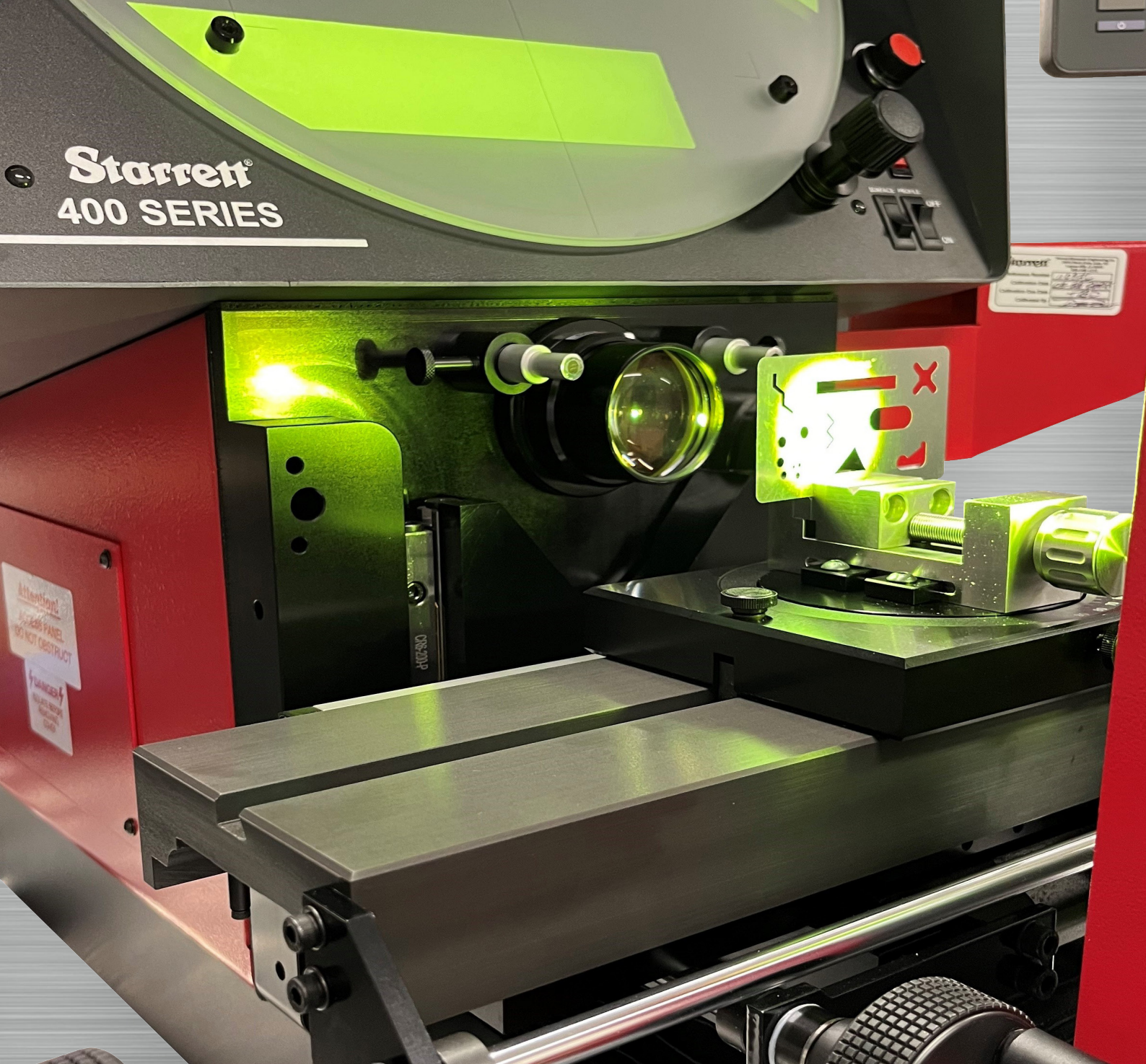
*With machined single slot for easy fixturing

WEIGHT AND DIMENSIONS

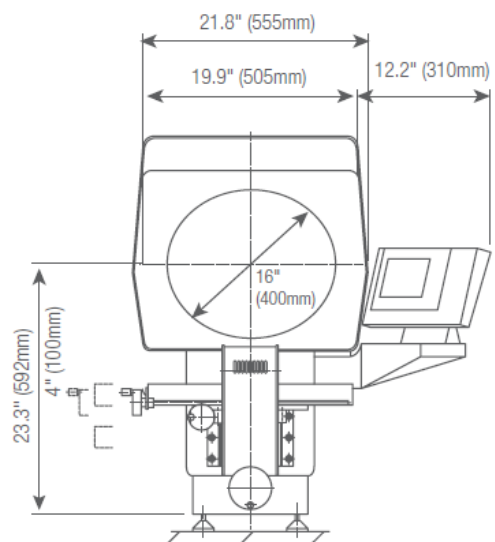
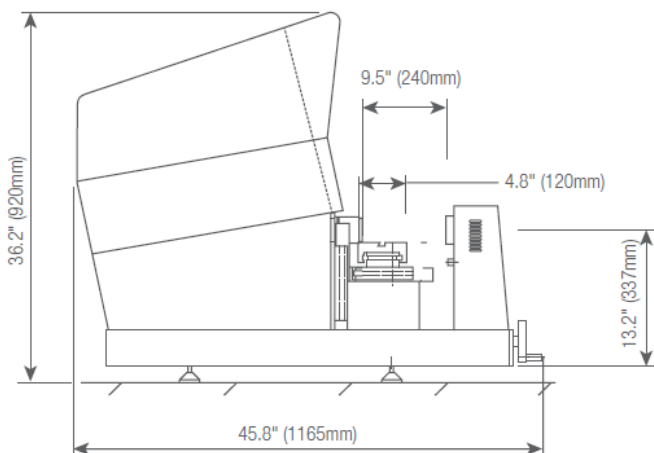
	HE400
Net Weight	230lbs 105kg
Shipping Weight	320lbs 146kg
Shipping Dimensions	49" x 32" x 51" (125cm x 81cm x 130cm)

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400 SERIES



HE400 DIMENSIONS



ACCESSORIES

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.



Photo Key	Part No.	Description	For Models
A	4H003-1	Rotary Vise with 1-1/4" Capacity	HE400, HB400, HD400
B	4H002	Fixed Position Vise with 1-1/4" Capacity	HE400, HB400, HD400
C	4H004	Universal Vee Block on Rotary Base	HE400, HB400, HD400
D	7P000	Centers and Vees	HE400, HB400, HD400
E	8170 8171	31" Cabinet Stand 22" Cabinet Stand	HE400, HB400, HD400
F	8276	Canopy and Curtains	HE400, HB400, HD400
G	7E010**	10X Lens**	HE400, HB400, HD400
H	7E020	20X Lens	HE400, HB400, HD400
I	7E025	25X Lens	HE400, HB400, HD400
J	7E050	50X Lens	HE400, HB400, HD400
K	7E100	100X Lens	HE400, HB400, HD400
L	7T001	Iris Diaphragm	HE400, HB400, HD400
M	7U000	Glass Plate Work Holder	HE400, HB400, HD400

**Included with HE400

METROLOGY SYSTEMS



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