

Starrett®

Precision, Quality, Innovation

METROLOGY SYSTEMS

THE HF600 FLOOR STANDING OPTICAL COMPARATOR

Optical Comparators

Readouts

Software



HORIZONTAL FLOOR STANDING OPTICAL COMPARATOR HF600

Well known throughout the world for superior value and exceptional measuring performance across the full measuring range and at all magnifications, the HF600 sets the standard in all applications from the QC lab to the production floor. The HF600 comparator has a four-position lens turret for instant selection of optional magnification lenses. Inserting the optional OV2 or TOV2 Video Camera System converts the comparator into a video metrology system. Ideal for use over a broad spectrum of industries and applications, the HF600 is designed and built to satisfy the requirements of measuring small to large work pieces with total precision, ruggedness, and efficiency. The HF600 utilizes 2D measurement software for geometries like diameters, radius, angles, lines, points, and for skew correction. Advanced software can also provide many tools such as CAD file import, CAD data export for reverse engineering, standard and custom reports, and Ethernet networking.

FEATURES AND SPECIFICATIONS

- 12" x 8" X-Y travel workstage (300 x 200mm)
- All metal construction with nickel plated stage tooling plate
- 24" (600mm) diameter screen with precision cross lines and overlay clips
- Motorized X and Y axes standard
- Two-axis power drive via joystick and variable speed control for fine adjustment
- Projection lens turret with four lens capacity (lenses not included)
- Turret mounted condenser system and yellow/green filter and provision to mount further accessories
- Stage Weight Capacity: 330lbs (150kg) (evenly distributed)
- Workstage capacity between centers: 17.5" (440mm)
- Fully retractable duplex fiber optic surface illumination
- 20µin (0.5µm) resolution Heidenhain linear scales
- Screen driven rotary Q-axis with 1" resolution
- LED lighting
- Available with MetLogix™ M2 all-in-one touchscreen PC, M3 PC with touchscreen monitor, or Mx-Series digital readout.

OPTIONS

- Six interchangeable lens magnification including 10x, 20x, 25x, 31.25x, 50x and 100x
- Interchangeable OV2 video camera system with a 6.5:1 zoom lens
- Interchangeable TOV2 telecentric video camera systems with choice of 0.16x, 0.3x or 0.5x fixed magnification lenses
- Extended Stage Travel: 20" (500mm) X-axis; 8" (200mm) Y-axis
- Fully automatic CNC controls
- Automatic Optical Edge Detection
- Automatic Video Edge Detection available only with OV2 and TOV2 video camera systems
- Swing-away lamp house
- Extensive line of accessories
- Full canopy and curtains

OPERATOR INTERFACE

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

SPECIFICATIONS

	HF600
Horizontal Travel	12" (300mm)
Vertical Travel	8" (200mm)
Focus Travel	3" (75mm)
Top Plate*	25 x 9" (635 x 230mm)
Image	Erect and reversed

*With machined slots for easy fixturing

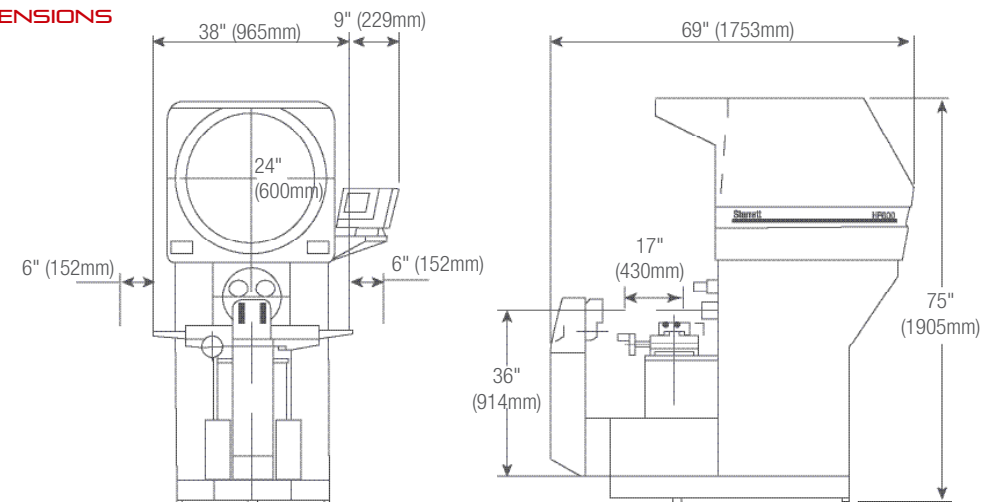
WEIGHT AND DIMENSIONS

	HF600
Net Weight	1340lbs 610kg
Shipping Weight	1500lbs 680kg
Crated Dimensions	81 x 49 x 89" 206 x 125 x 226cm



- ✓ LARGE WORK STAGE
- ✓ MULTI-LENS TURRET
- ✓ VIDEO CAMERA COMPATIBLE

HF600 DIMENSIONS



Click the QR code to view the HF600



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	OLM10	10X Magnification Lens	HF600
B	OLM20	20X Magnification Lens	HF600
C	OLM25	25X Magnification Lens	HF600
D	OLM31.25**	31.25X Magnification Lens	HF600
E	OLM50	50X Magnification Lens	HF600
F	OLM100	100X Magnification Lens	HF600
G	OID4	Iris Diaphragm	HF600, HF750, VF600
H	ORV2	Rotary Vise	HF600, HF750
I	OCN8	Center and Vee - Large	HF600, HF750
J	OCN7	Center and Vee - Small	HF600, HF750
K	OVH1	Glass Plate Work Holder	HF600, HF750

**Product not shown

METROLOGY SYSTEMS

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