

# OPTICAL PROFILE PROJECTORS

HE400

HB400

HD400

VB400

VF600

**HF600**

HF750

HS600

HS750

HS1000



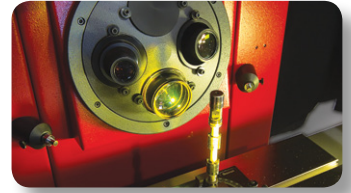
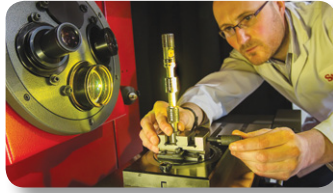
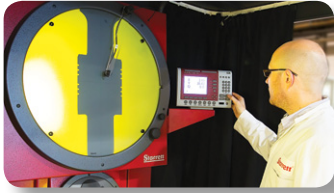
## **HF600** HORIZONTAL FLOOR STANDING OPTICAL PROJECTOR



# Starrett®

METROLOGY  SOLUTIONS

[www.starrett-precision.co.uk](http://www.starrett-precision.co.uk)



Building high capacity, floor standing projectors that give flawless performance across the full measuring range, at all magnifications, takes a skill that not many projector manufacturers possess. This is where Starrett stand proud.

Designed to accommodate a variety of large work pieces over a wide spectrum of industries, the HF600 projector is tailor made for optimum performance in all areas from standards room to workshop. The wide range of ancillaries and options allows specification tailoring and easy upgrading.

## Features & Specifications

- Available with the full range of Metlogix or Quadra-Chek readout systems (as shown).
- Fully usable 600mm / 24" diameter screen with precision cross lines and overlay clips.
- Single lens mount or 4-lens quick change turret using silo system for maximum lens protection, 2 lens turret mounted condenser system.
- Machine tool standard workstage, powered on both horizontal and vertical axis, with 630 x 230mm / 25 x 9" top plate. CNC options available.
- Standard measuring travel:  
300mm / 12" X-axis, 200mm / 8" Y-Axis.
- Extended measuring travel:  
500mm / 18" X-axis, 200mm / 8" Y-Axis.
- Fully retractable duplex fibre optic surface illumination.
- Exceptionally stable, all metal construction for optimum performance and accuracy.
- Supplied complete with full canopy and curtains.
- Stage weight capacity: 150kg / 330lbs (evenly distributed).
- 10x, 20x, 25x, 31.25x 50x and 100x lenses available (x5 to special order in a 3 lens turret).
- Screen driven rotary Q axis.
- 0.001mm resolution Heidenhain linear scales.
- Large range of accessories available, including alternative workstage, precision centres, vees, vices etc.
- Power supply 110 / 120 / 230 / 240 / 250V AC 50 / 60Hz.
- All Starrett Optical Profile Projectors have lens magnifications set and calibrated to the following accuracies:  
Profile:  $\pm 0.05\%$ .  
Surface Illumination:  $\pm 0.10\%$ .

## M2 Touchscreen Readout

The Metlogix M2 readout has a broad range of powerful, user-friendly functions on a compact, icon based touchscreen interface in place of the traditional control.

The M2 software and the touchscreen interface are supplied separately, allowing users to purchase the interface in local markets if required.



## Quadra-Chek Readouts

The Quadra-Chek readout range is considered as the industry standard for the precision measurement and inspection of geometric components.

Their design reflects a deep understanding of user needs, with an intuitive user interface and simple, meaningful visual displays; innovations that improve operator productivity, reduce errors and save time and money.



READOUT OPTIONS								
SPECIFICATION:	QUADRA-CHEK						METLOGIX	
	SR121	SR221	SR221e	QC321	QC321e	SR515	M2	M2e
Touchscreen operation				•	•		•	•
Angular digital measurement in readout	•	•	•	•	•	•	•	•
X-Y-Q axis digital readout	•	•	•	•	•	•	•	•
Geometric function digital readout		•	•	•	•	•	•	•
Computer with geometric software readout.						•		
On screen edge sensing			•		•	•		•
Functions •								

## Field of View Terminology:

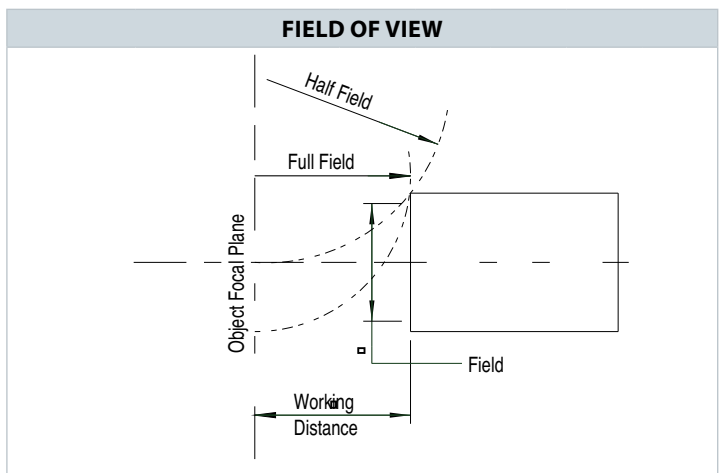
**Working Distance:** Is the distance between the objective lens and the component when the component is in focus.

**Field of View (FOV):** Is the viewing area of the component. A 30mm FOV using a 10x lens would produce a screen image of 300mm.

**Half Field View:** Is the maximum size a component can be projected to the centre of the screen before colliding with the lens.

**Full Field View:** Is the maximum size a component can be projected over the full screen before colliding with the lens.

**Projected Image:** Is how a component is projected onto the screen in relation to its placement on the workstage.



GUIDE TO MAXIMUM COMPONENT SIZE (MM)							
MAGNIFICATION		X5	X10	X20	X25	X50	X100
Field of View		120	60	30	24	12	6
Working Distance		220	138	127	103	88	44
Max Work Diameter	Half Field	280	280	280	280	280	104
	Full Field	280	280	280	280	270	98
Projected Image						Vertically Correct	

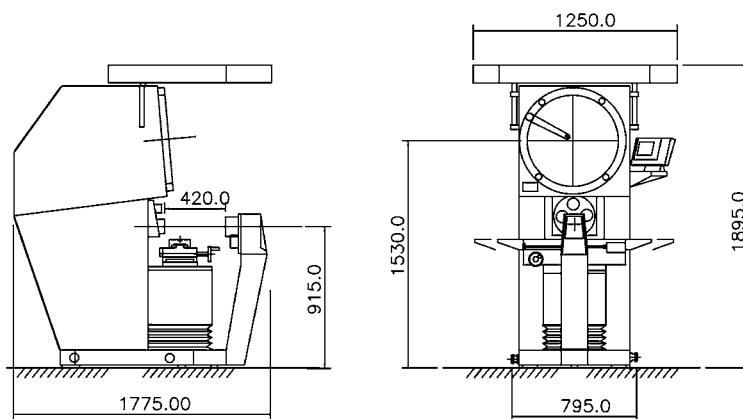
## HF600 Dimensions

HF600 dimensions are as listed in the image, all measurements are in millimetres.

Gross Weight: 660kg.

Nett Weight: 510kg.

Shipping dimensions: 198 x 119 x 210cm.



## Accessories

Starrett manufacture a comprehensive range of fixtures and accessories to suit our full range of profile projectors.

Each accessory is made from the highest quality material and is machined, assembled and inspected to the same stringent quality standards as the projector itself.

### ACCESSORIES

PART NO	DESCRIPTION	PART NO	DESCRIPTION	PART NO	DESCRIPTION
0CN3	Large Centres and Vees	0RV2	52mm Capacity Rotary Vice	0CN7	Small Centres and Vees
PART NO	DESCRIPTION	PART NO	DESCRIPTION	PART NO	DESCRIPTION
0VH1	Vertical Glass Plate Holder	0GH2	Magnification Check Graticule	4H003	32mm Capacity Rotary Vice
PART NO	DESCRIPTION	PART NO	DESCRIPTION		
4H002	32mm Capacity Fixed Vice	4H004	Universal Rotary Vee Block		

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