

Vertical profile projectors

The vertical type profile projector is mainly used for high accuracy measurement of the mechanical, rubber, plastic parts like radius, angle, length and critical profile parts, aerospace parts etc.

VPP 300

SCREEN DIAMETER	300mm
OPTICAL MAGNIFICATION (LENS)	
STANDARD	10x
OPTIONAL	20x 50x 100x
WORK STAGE	330 x 190mm
MEASURING RANGE	150 x 100mm
SCALE RESOLUTION	0.001mm
ACCURACY (REF. STD. JIS B 7184)	(3+L/80) μ m / (2+L/80) μ m
MAGNIFICATION ACCURACY (REF. STD. JIS B 7184)	
PROFILE ILLUMINATION	\pm 0.05%
SURFACE ILLUMINATION	\pm 0.075%
ILLUMINATION	
PROFILE	150w x 1
SURFACE (TWIN BEAM)	150w x 2
LOAD CAPACITY	15kg
MASS	90kg
POWER CONSUMPTION	200W Approx.
POWER SUPPLY	220-240V, 50/60Hz



Key Features:
Halogen Intensity
Adjustment Knob



Key Features:

- Turret for Lens (VPP 400)
- Halogen Intensity Adjustment Knob

VPP 340 & VPP 400

	VPP 340	VPP 400
SCREEN DIAMETER	340mm	400mm
OPTICAL MAGNIFICATION (LENS)		
STANDARD	10x	
OPTIONAL	20x 50x 100x	
WORK STAGE	380 x 280mm	400 x 280mm
MEASURING RANGE	200 x 150mm	250 x 170mm
SCALE RESOLUTION	0.001mm	
ACCURACY (REF. STD. JIS B	(3+L/80) μ m / (2+L/80) μ m	
MAGNIFICATION ACCURACY (REF. STD. JIS B 7184)		
PROFILE	\pm 0.05%	\pm 0.05%
SURFACE	\pm 0.075%	\pm 0.075%
ILLUMINATION		
PROFILE	150w x 1	
SURFACE (TWIN BEAM)	150w x 2	
LOAD CAPACITY	20kg	25kg
MASS	120kg	130kg
POWER CONSUMPTION	850W Approx.	
POWER SUPPLY	220-240V, 50/60Hz	

VPP 500

SCREEN DIAMETER	500mm
OPTICAL MAGNIFICATION (LENS)	
STANDARD	10x
OPTIONAL	20x 50x 100x
WORK STAGE	450 x 300mm
MEASURING RANGE	350 x 200mm
SCALE RESOLUTION	0.001mm
ACCURACY (REF. STD. JIS B 7184)	$(3+L/80)\mu\text{m} / (2+L/80)\mu\text{m}$
MAGNIFICATION ACCURACY (REF. STD. JIS B 7184)	
PROFILE	$\pm 0.05\%$
SURFACE	$\pm 0.075\%$
ILLUMINATION	
PROFILE	250w x 1
SURFACE (TWIN BEAM)	250w x 2
LOAD CAPACITY	30kg
MASS	350kg
POWER CONSUMPTION	850w
POWER SUPPLY	220-240V, 50/60Hz



Key Features:

- Turret for Lens
- Halogen Intensity Adjustment Knob



Key Features:

- Turret for Lens (optional)
- Halogen Intensity Adjustment Knob
- Motorised Focus (Z axis).

VPP 600

SCREEN DIAMETER	500mm
OPTICAL MAGNIFICATION (LENS)	
STANDARD	10x
OPTIONAL	20x 50x 100x
WORK STAGE	450 x 300mm
MEASURING RANGE	350 x 200mm
SCALE RESOLUTION	0.001mm
ACCURACY (REF. STD. JIS B	$(3+L/80)\mu\text{m} / (2+L/80)\mu\text{m}$
MAGNIFICATION ACCURACY (REF. STD. JIS B 7184)	
PROFILE	$\pm 0.05\%$
SURFACE	$\pm 0.075\%$
ILLUMINATION	
PROFILE	250w x 1
SURFACE (TWIN BEAM)	250w x 2
LOAD CAPACITY	30kg
MASS	700kg
POWER CONSUMPTION	1200w
POWER SUPPLY	220-240V, 50/60Hz

Horizontal profile projectors

The Horizontal type profile projector is mainly used for high accuracy measurement of the bulky, lengthy, components measurement like cutting tools, crank shaft, long shaft, moulds, die casting parts etc

HPP 340 & HPP 400

	HPP 340	HPP 400
SCREEN DIAMETER	340mm	400mm
Optical Magnification (Lens)		
Standard	10x	
Optional	20x 50x 100x	
Work stage	400 x 120mm	450 x 170mm
Measuring Range	200 x 100mm	300 x 150mm
Scale Resolution	0.001mm	0.001mm
ACCURACY (REF. STD. JIS B 7184)	$(3+L/80)\mu\text{m} / (2+L/80)\mu\text{m}$	
MAGNIFICATION ACCURACY (REF. STD. JIS B 7184)		
Profile	$\pm 0.05\%$	
SURFACE	$\pm 0.075\%$	
Illumination		
Profile	150w x 1	
Surface (TWIN BEAM)	150w x 2	
Load capacity	25kg	35kg
Mass	150kg	180kg
POWER CONSUMPTION	850w	
POWER SUPPLY	220-240V, 50/60Hz	



Key Features:

- Helix Adjustment (Optional)
- Halogen Intensity Adjustment Knob.
- Turret for lens (HPP 400)



Key Features:

- Helix Adjustment
- Turret for Lens
- Halogen Intensity Adjustment Knob

HPP 500

SCREEN DIAMETER	500mm
OPTICAL MAGNIFICATION (LENS)	
STANDARD	10x
OPTIONAL	20x 50x 100x
WORK STAGE	500 x 200mm
MEASURING RANGE	350 x 200mm
SCALE RESOLUTION	0.001mm
ACCURACY (REF. STD. JIS B 7184)	$(3+L/80)\mu\text{m} / (2+L/80)\mu\text{m}$
MAGNIFICATION ACCURACY (REF. STD. JIS B 7184)	
PROFILE	$\pm 0.05\%$
SURFACE	$\pm 0.075\%$
ILLUMINATION	
PROFILE	250w x 1
SURFACE (TWIN BEAM)	250w x 2
LOAD CAPACITY	45kg
MASS	550kg
POWER CONSUMPTION	1200w
POWER SUPPLY	220-240V, 50/60Hz

HPP 600

SCREEN DIAMETER	600mm
OPTICAL MAGNIFICATION (LENS)	
STANDARD	10x
OPTIONAL	20x 50x 100x
WORK STAGE	600 x 250mm
MEASURING RANGE	400 x 250mm
SCALE RESOLUTION	0.001mm
ACCURACY (REF. STD. JIS B 7184)	$(3+L/80)\mu\text{m} / (2+L/80)\mu\text{m}$
MAGNIFICATION ACCURACY (REF. STD. JIS B 7184)	
PROFILE	$\pm 0.05\%$
SURFACE	$\pm 0.075\%$
ILLUMINATION	
PROFILE	250w x 1
SURFACE (TWIN BEAM)	250w x 2
LOAD CAPACITY	60kg
MASS	800kg
POWER CONSUMPTION	1200w
POWER SUPPLY	220-240V, 50/60Hz



Key Features:

- Helix Adjustment
- Turret for Lens
- Motorised Y axis and X optional
- Halogen Intensity Adjustment Knob

- Maximum work piece height & Diameter will be depending on lens.
- The Lens focusing distance is varying as per lens magnification.

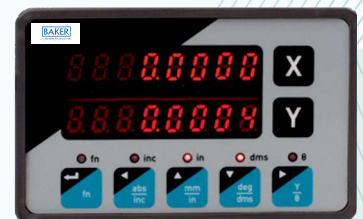
Optional Accessories for Profile Projector:

- LED illumination
- Geometric Data Processor DRO
- Fiber optic edge detector (Sensor)
- FT2-E Fusion Touch Screen Readout (2D Fusion Software with touch screen monitor)
- V-Blocks
- Rotary table
- Swivel Center
- 2 axis / 3 axis Motorization
- Projector stand
- 360° Revolving Fixture for Cutting Tool Inspection

DRO Options

1. Compact DRO

- Ergonomic and compact design with panel mounting option
- Simple X-Y and Q selectable DRO.
- **DRO FEATURES**
- Axis set / reset
- Inch / mm mode
- DD.DEC / DD.MM.SS mode for θ axis



2. Mini Geometric DRO

- LCD Screen
- Soft key/feather touch
- Graphical window
- **DRO FEATURES**
- Point measurements
- Multiple point of line & radius measurement
- 2-line angle measurement
- Distance measurement
- Memory upto 50 features
- Graphic LCD display for better viewing



3. Geometric Data Processor DRO

- KEY FEATURES
- Color TFT Display
- Soft / key
- Graphical display window

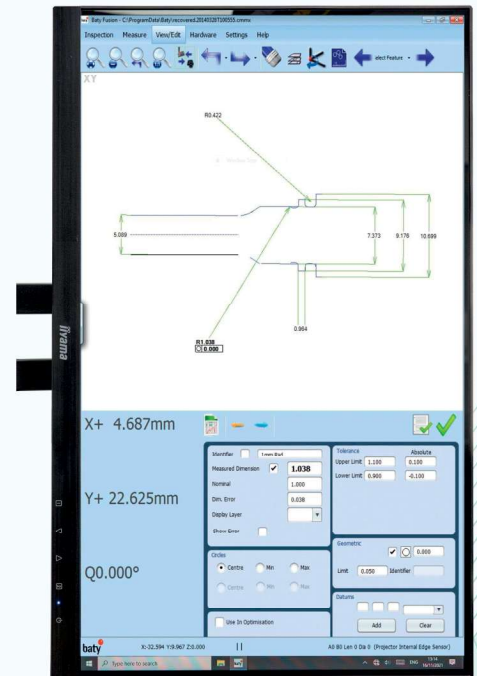
MEASUREMENTS - DRO FEATURES

- Inter section point measurements
- Multiple point line & radius measurement
- 2-line angle measurement
- Distant measurement
- Circle to circle distant measurement
- Construction of feature & PCD contraction measurements
- USB interface for PC backup
- Geometrical quick alignment measurements data saving up to 200
- memories. RS 232 data output for print
- Result export to AutoCAD facility
- Programming facility and Auto edge detecting for more accurate measurements



4. Fusion Touch Screen Readout

Complete TOUCH SCREEN DRO with 2D Fusion touch sw. Full geometric functionality. Built in optical edge detection allows data points to be taken 'on the fly' as the projected image is passed under the screen mounted fibre optic sensor. View of measured part can be printed as a fully dimensioned drawing. Full reporting capability includes, SPC, tabulated details with pass / fail analysis, auto link to Excel and auto sequence programming feature. Windows O/S and built in 19" portrait touch screen monitor in a rugged all steel housing.



We are offering retrofit/upgrades for existing Profile projectors to Fusion Touch Screen PC based 2D software.

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