



Chinese Profile Projector

Represented by Shanghai Jingoo Petroleum Apparatus Co., Ltd.

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The series of Profile Projector

1. Profile projector is a kind of metrology instruments for measuring the magnified image of work-piece on the projection screen, which adopts the optical principle and rules to magnify image of the work-piece placed on the worktable onto the projection screen by objectives with accurate magnification. It is precise instrument integrated the optics, mechanism, electricity and computer calculation as a whole and has wide-range application fields.

2. Typical application:

Automotive manufacturing industry:

inspect the dimensions of work-piece of transmission shafts, supporting axle, motor bearings, internal casting, valve, brake block, tubular parts, diverter and nipple.

Electronic industry: inspect all profile parts and hole of electronic connectors, circuits, mobile housings and keys, video head, sockets and lamps.

Rubber and plastic industry: inspect the parameters of plastic products such as rubber rings, rubber rods and rubber rollers.

Mechanical industry: inspect all shapes and dimensions of products of threads, screws, motor vanes, gears and cutting tool for machine.

Horologe industry: inspect the dimension of parts and outer profile of bearing, gears and pointers.

Aerospace industry: inspect the profile dimension of plane blade, plane vanes, controlling parts and engine bearings.

3. Our OETECH provides wide specifications of very excellent profile projector which sorts by diameter of projection screen, it offers ϕ 250mm, ϕ 300mm, ϕ 350mm, ϕ 400mm, ϕ 500mm, ϕ 600mm, ϕ 800mm, ϕ 1200mm and ϕ 1500mm. in order to satisfy different requirements of customers for example ϕ 300mm projector has many models: Erect image and reverse image,

built-in readout and

external readout,

worktable with different

sizes, different

focusing modes

etc.. As the optical

path is different,

the ϕ 350mm

projector has three

models: Horizontal

type, vertical type

and inverted type.

Our company is still

the unique one

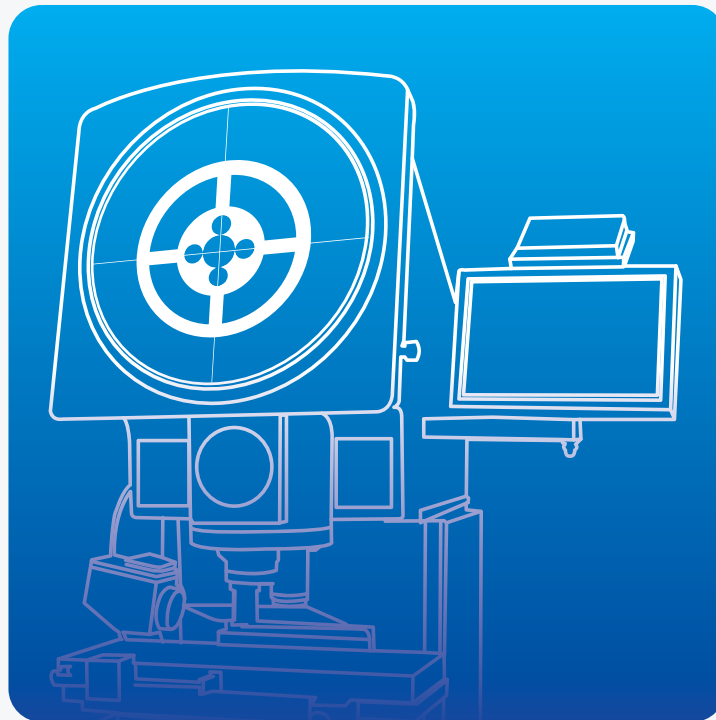
manufacturer for

the projector of

which with screen

diameter exceeds

ϕ 600mm in China.



JT5A/5B/5E

Φ 800 Horizontal Projector

Characteristics

- ➊ Horizontal light path system, suitable for the measurement of on line work piece.
- ➋ Worktable has a large movement range and strong load capacity, suitable for the measurement of large-size parts.
- ➌ The deflection of worktable is $\pm 15^\circ$, convenient for measuring helical parts.
- ➍ High and low adjustable light intensities for transmission lightings can provide proper lighting for measuring requirements of different workpieces.
- ➎ Large area of projection screen provides complete display of the comparison indication of various complicated parts of large size in one time to realize high measurement efficiency.
- ➏ JT5A is equipped with linear scale & digital display box to carry out data processing, motorized movement.
- ➐ JT5B is equipped with computer, 2-coordinate measurement software and joystick to control motorized movement.
- ➑ JT5E is equipped with serve motor on movement and CNC automatic controller, realize full-automatic control measurement and data processing.

Technical Parameters

Projection screen

Projection screen: ϕ 800 mm

Rotation range : $0^\circ\sim 360^\circ$

Rotation division value of projection screen: 1°

Resolution of the rotary angle: $1'$

Worktable

Worktable area: 630mm \times 200mm

Measuring range

Longitudinal direction: 300mm

Vertical direction: 200mm

Transverse direction: 80mm

Resolution: 0.001mm



Light transmission size of plane worktable (mm) : 300 \times 200

Light transmission size of rotate worktable (mm) : ϕ 90

Deflection angle: $\pm 15^\circ$

Accuracy of the instrument: $(4+L/50)$ μ m,

of which, L=length of the workpiece measured (unit: mm)

Load capacity : 50kg

Tailstock rack

Maximum diameter gripped: ϕ 200mm

Maximum length gripped : 300mm

Lighting source

Transmission lighting: 24V 250W Halogen tungsten lamp

Reflecting lighting: 16V 150W Incandescent lamp

Objective

Magnification Power	10 \times	20 \times	25 \times	50 \times
Object Visual Field	ϕ 80mm	ϕ 40mm	ϕ 16mm	ϕ 8mm
Object Working Distance	206mm	123mm	85mm	78mm

Error of magnifying power: 0.06%

Overall sizes of the instrument (mm) : 2130 \times 1800 \times 1950(L \times W \times H)

Mainframe weight: 1900kg

Ambient environment requirements

Room temperature: $20^\circ\text{C} \pm 5^\circ\text{C}$

Relative humidity: 40%~70%

Power Supply: AC 220V 50HZ

JT7A/7B/7E

Φ 1200 Horizontal Projector

Characteristics

- Imported Philip long-life halogen tungsten lamp is adopted to meet the requirement of durability of long time use.
- Worktable has a large movement range and strong load capacity, suitable for the measurement of large-size parts.
- Large area of 1200mm projection screen can display completely the comparison indications of various dimensions of complicated parts in large-size in one image to realize higher measurement efficiency.
- High-precision objective turntable is convenient for converting magnification and accurate in positioning.
- The deflection of worktable is $\pm 15^\circ$, convenient for measuring helical parts.
- Advanced raster sensor and digital display technology plus powerful data processing system offers high efficient measurement and minimize error.

Model	Configuration
JT7-A	Digital display box, mortorized movement.
JT7-B	Computer, PCI card,joystick ,mortorized movement 2-coordinate measurement software,
JT7-E	Renishaw metal encoder ,CNC automatic controller



Technical Parameters

Projection screen

Projection screen: ϕ 1200 mm

Rotation range : $0^\circ \sim 360^\circ$

Rotation division value of projection screen: 1°

Resolution of the rotary angle: $1'$

Worktable

Worktable area: 800mm \times 230mm

Measuring range

Longitudinal direction: 400mm

Vertical direction: 250mm

Transverse direction: 150mm

Resolution: 0.001mm

Light transmission size of vertical square worktable: 310 \times 205

Light transmission size of vertical circular worktable: ϕ 130

stage deflection angle: $\pm 15^\circ$

Accuracy of the instrument: $(4+L/50) \mu\text{m}$,

of which, L=length of the workpiece measured (unit: mm)

Load capacity: 100kg

Objective

Magnification Power	10 \times	20 \times	50 \times	100 \times
Object Visual Field	ϕ 120mm	ϕ 60mm	ϕ 24mm	ϕ 12mm
Object Working Distance	300mm	195mm	120mm	50mm

Optic axis of lens

Maximum distance from stage: 255mm

Minimum distance from stage: 55mm

Tailstock

Maximum diameter gripped: ϕ 300mm

Maximum length gripped: 450mm

Lighting source

Transmission lighting: 24V 250W Halogen tungsten lamp

Reflecting lighting: 16V 150W Incandescent lamp

Overall sizes of the instrument (mm) :

3500 \times 2320 \times 2250(L \times W \times H)

Mainframe weight: 4000kg

Ambient environment requirements

Room temperature: $20^\circ\text{C} \pm 5^\circ\text{C}$

Relative humidity: Not more than 60%

Power Supply: AC 220V 50HZ

JT12A-B

φ 300 Digital Measuring Projector

Characteristics

- Clear image, accurate magnification, easy to carry out comparative measurement
- With a non-spherical condenser lighting system, the visual field of the projector screen is bright and even, by thus to reduce measurement errors and guarantee the accuracy.
- Long-life halogen tungsten lamps are adopted to satisfy the requirement of long time usage of the projector. With axial flow blower fans, the bilateral heat radiation provides super radiating performance.
- DS600 or DS401SM multi-function digital read out is available for selection
- Built in micro-printer.

Technical Parameters

Projection screen

Screen diameter: φ 300 mm

Rotation range: 0° ~ 360°

Resolution of the rotary angle: 1'

Accuracy of the rotary angle: 6'

Worktable

Worktable area: 340mm × 152mm

Range of X-coordinate: 0~150 (mm) Resolution : 0.001 (mm)

Range of Y-coordinate: 0~50 (mm) Resolution : 0.001 (mm)

Range of Z-coordinate (Focusing): 0~90 (mm)

Accuracy of the instrument: $(3+L/75) \mu m$,

of which, L = length of the workpiece measured (unit: mm)

Load capacity : 10kg

Lighting source

Transmission lighting: 12V 100W Halogen tungsten lamp

Indirect lighting: 24V 150W Halogen tungsten lamp



Objective

Magnification Power	10 ×	20 ×	50 ×	100 ×
Object Visual Field	φ 30mm	φ 15mm	φ 6mm	φ 3mm
Object Working Distance	75mm	69mm	44mm	26mm
Errors of magnifying power	0.08%			

Ambient environment requirements

Room temperature: 20°C ± 5°C

Relative humidity: 40%~70%

Overall sizes of the instrument (mm):

380 × 694 × 1058(L × W × H)

Mainframe weight: 135 kg

Power Supply: AC 220V 50HZ

JT20A (External Readout)

φ 300 Digital Measuring Projector

Characteristics

- The up and down hoisting structure adopted for the projecting box to enlarge focusing range in Z direction.
- Two sizes worktable are provided for selection according to the dimensions of the measured workpiece.
- Precise built in objective, rotated button for changing the surface light and bottom light.
- Optical path could be adjusted as per different magnification objective .
- Nice look, with the accuracy of $(3+L/75) \mu m$

Technical Parameters

Projection screen

Screen diameter: φ 300 mm

Rotation range: 0° ~ 360°

Resolution of the rotary angle: 1'

Accuracy of the rotary angle: 6'

Objective

Magnification Power	10 ×	20 ×	50 ×
Object Visual Field	φ 30mm	φ 15mm	φ 6mm
Object Working Distance	74mm	69mm	63 mm
Errors of magnifying power	0.08%		

Worktable (Two Optional worktable)

Type	Medium	Large
Range of X-coordinate	0~200	0~250
Range of Y-coordinate	0~150	0~150
Load capacity of the worktable	15kg	20kg
Worktable area	400 × 280	450 × 286



Resolution: 0.001 (mm)

Z coordinate travel (Focusing): 0~100 (mm)

Accuracy of the instrument: $(3+L/75) \mu m$,

of which, L = length of the workpiece measured (unit: mm)

Lighting source

Transmission lighting: 24V 150W Halogen tungsten lamp

Reflecting lighting: 24V 150W Halogen tungsten lamp

Overall sizes of the instrument (mm):

410 × 650 × 1100 (L × W × H)

Mainframe weight: 80 kg

Power supply: AC 220V 50HZ

Ambient environment requirements

Room temperature: 20°C ± 5°C

Relative humidity: 40%~70%

JT21A

φ 350 Digital Measuring Projector

Characteristics

- The inverted projector is in conformity with the humanization design and convenient for operation.
- The axial flow blower with bilateral heat radiation can provide super-strong power for heat radiation.
- Especially suitable for the comparative measurement detection of projection drawings, observation of the contour forms, etc..
- The plug in model is adopted for the objective replacement, provide much convenience way in replacement.
- This instrument equipped with multiple-function digital display meters for the purpose of measurement of complicated parts.



Technical Parameters

Projection screen

Screen diameter: φ 350 mm

Rotation range: 0° ~ 360°

Resolution of the rotary angle: 1'

Accuracy of the rotary angle: 4'

Objective

Magnification Power	5 ×	10 ×	20 ×	50 ×
Object Visual Field	φ 70mm	φ 35mm	φ 17.5mm	φ 7mm
Object Working Distance	163mm	89mm	76 mm	60 mm
Errors of magnifying power	0.08%			

Worktable

Worktable area: 380mm × 230mm

Range of X-coordinate: 200 (mm)

Range of Y-coordinate: 100 (mm)

Resolution: 0.001 (mm)

Range of Z-coordinate: 0~100 (mm) (Focusing)

Accuracy of the instrument: $(3+L/75) \mu m$,

of which, L = length of the workpiece measured (unit: mm)

Load capacity: 5kg

Lighting source

Transmission lighting: 12V 100W Halogen tungsten lamp

Vertical Reflection lighting: 24V 150W Halogen tungsten lamp

Obligie reflection lighting:

24V 100W Halogen tungsten lamp (only used for 5 × objectore)

Overall sizes of the instrument (mm): 854 × 480 × 1400 (L × W × H)

Mainframe weight: 138kg

Ambient environment requirements

Room temperature: 20°C ± 5°C

Relative humidity: 40%~70%

Power Supply: AC 220V 50HZ

JT24

φ 300 Digital Measuring Projector

Characteristics

- This instrument is in conformity with the updated design for a pretty look, compact in structure and convenient for operations.
- High brightness and long-life halogen tungsten lamps are adopted for the lighting source, homogeneous in lighting.
- Beautiful in its outward appearances, this instrument is of super-precision, aviation casting aluminum is selected for worktable, so the weigh is light.
- In high quality in its optical system, the objectives are clear in imaging and accurate in magnification.
- The fiber transmission is adopted for the reflecting lighting, which is small in dimensions, high in its brightness and convenient for uses.
- High and low adjustable light intensity for transmission lighting to provide proper lighting for measuring requirements of different workpieces.

Technical Parameters

Projection screen

Screen diameter: φ 300 mm

Rotation range: 0° ~ 360°

Resolution of the rotary angle: 1'

Accuracy of the rotary angle: 4'

Worktable

Worktable area: 326mm × 150mm

Range of X-coordinate: 0~200 (mm) Resolution: 0.001 (mm)

Range of Y-coordinate: 0~80 (mm) Resolution: 0.001 (mm)

Range of Z-coordinate (Focusing): 0~100 (mm)

Accuracy of the instrument: $(2.5+L/80) \mu m$

of which, L = length of the work piece measured (unit: mm)

Load capacity of the worktable: 5kg



Lighting source

Transmission lighting: 24V 150W Halogen tungsten lamp

Indirect lighting: 24V 150W Halogen tungsten lamp

Objective

Magnification Power	10 ×	20 ×	50 ×	100 ×
Object Visual Field	φ 30mm	φ 15mm	φ 6mm	φ 3mm
Object Working Distance	75mm	69mm	44mm	26mm
Errors of magnifying power	0.08%			

Ambient environment requirements

Room temperature: 20°C ± 5°C

Relative humidity: 40%~70%

Overall sizes of the instrument (mm): 746 × 420 × 980(L × W × H)

Mainframe weight: 105 kg

Power Supply: AC 220V 50HZ

JT26

φ 400 Digital Measuring Projector

Characteristics

- The product structure is with good versatility and the instrument is beautiful in its outward appearances and convenient for operations.
- Imported V-shape linear guide rail is adopted for the hoisting system of the worktable, light and comfortable in movement.
- High and low adjustable light intensities for transmission lightings can provide proper lighting for measuring requirements of different workpieces.
- In high quality optical system, the objectives are clear in imaging and accurate in magnification.
- The fiber transmission is adopted for the reflecting lighting, which is small in dimensions, high in its brightness and convenient for uses.
- bigger screen size, horizontal light path system, suitable for the measurement on the axial work piece .
- This instrument is with high accuracy, stable and reliable performances.



Technical Parameters

Projection screen

Screen diameter: φ 400 mm

Rotation range: 0° ~ 360°

Resolution of the rotary angle: 1'

Accuracy of the rotary angle: 4'

Worktable

Worktable area: 450mm × 150mm

Range of X-coordinate: 0~250 (mm) Resolution: 0.001 (mm)

Range of Z-coordinate: 0~150 (mm) Resolution: 0.001 (mm)

Range of Y-coordinate: 0~80 (mm) (Focusing)

Accuracy of the instrument: (3+L/75) μ m,

of which, L = length of the workpiece measured (unit: mm)

Load capacity : 5kg

Objective

Magnification Power	10 ×	20 ×	50 ×	100 ×
Object Visual Field	φ 40mm	φ 20mm	φ 8mm	φ 4mm
Object Working Distance	88mm	81mm	54 mm	45 mm
Errors of magnifying power	0.08%			

Lighting source

Transmission lighting: 24V 150W Halogen tungsten lamp

Reflecting lighting: 24V 150W Halogen tungsten lamp (with reflection cup)

Ambient environment requirements

Room temperature: 20°C ± 5°C

Relative humidity: Not more than 60%

Overall sizes of the instrument (mm): 687 × 443 × 942(L × W × H)

Mainframe weight: 150 kg

Power Supply: AC 220V 50HZ

JT27

φ 350 Digital Measuring Projector

Characteristics

- This instrument is in conformity with the updated design for a pretty look, compact in structure and convenient to operations.
- On time temperature showing of surface light, bottom light and work stage, auto alarm triggered when the temperature is overheated.
- Beautiful in its outward appearances, this instrument is of super-precision accuracy so the aviation casting aluminum is selected for of worktable, weight is light.
- In high quality optical system, the objectives are clear in imaging and accurate in magnification.
- The fiber transmission is adopted for the reflecting lighting, which is small in dimensions, high in its brightness and convenient for uses.
- High and low adjustable light intensities for transmission lightings can provide proper lighting for measuring requirements of different workpieces.



Technical Parameters

Projection screen

Screen diameter: φ 350 mm

Rotation range: 0° ~ 360°

Resolution of the rotary angle: 1'

Accuracy of the rotary angle: 4'

Worktable

Worktable area: 326mm × 150mm

Range of X-coordinate: 0~200 (mm) Resolution: 0.001 (mm)

Range of Y-coordinate: 0~80 (mm) Resolution: 0.001 (mm)

Range of Z-coordinate (Focusing): 0~100 (mm)

Accuracy of the instrument: $(2.5+L/80) \mu m$,

of which, L = length of the work piece measured (unit: mm)

Load capacity: 5kg

Objective

Magnification Power	10 ×	20 ×	50 ×	100 ×
Object Visual Field	φ 35mm	φ 17.5mm	φ 7mm	φ 3.5mm
Object Working Distance	88mm	81mm	54 mm	45 mm
Errors of magnifying power	0.08%			

Lighting source

Transmission lighting: 24V 150W Halogen tungsten lamp

Reflecting lighting: 24V 150W Halogen tungsten lamp (with reflection cup)

Ambient environment requirements

Room temperature: 20°C ± 5°C

Relative humidity: Not more than 60%

Overall sizes of the instrument (mm): 775 × 440 × 980(L × W × H)

Mainframe weight: 150 kg

Power Supply: AC220V 50HZ

JT30/JT40

φ 600 / φ 800 Contour Profile Projector

Characteristics

- Reverted projector, close observation distance to screen, convenient to operate.
- Large square projection screen, get big image for small workpiece.
- Suitable for image display, profile observation, templet tolerance range comparison to get idea on judgement quickly.
- Objective mounting is plug in method, easy to replace, multiple magnifications are available to choose.
- High quality semi-reflecting lighting system.

JT40 Technical Parameters

Worktable

Projection screen: 830 × 670

Worktable size(mm): 180 × 160

Light go through area: Φ 107

Z axis Travel & focusing: 80mm (Focusing travel 60mm)

Fine movement worktable (optional): X=25mm, Y=25mm

Objective

Magnification Power	10 ×	20 × (Optional Accessory)
Object Visual Field(mm)	75 × 65	—
Object Working Distance(mm)	206	—

Errors of magnifying power: 0.08%

X.Y division value: 0.001mm

Rotating range of rotary worktable: 0° ~360°

Pivision value of rotary worktable: 1°

Cursor division value: 2'

Lighting source

Transmission lighting: 24V 150W Halogen tungsten lamp

Indirect lighting :12V 100W Halogen tungsten lamp

Ambient environment requirments

Room temperature: 20°C ± 5°C

Relative humidity: Not more than 60%

Overall sizes of the instrument (mm):

1110 × 1445 × 2528 (curtain included) (L × W × H)

1100 × 1445 × 2274 (L × W × H)

Mainframe weight: 546 kg

Power Supply: AC 220V 50HZ



JT30 Technical Parameters

Worktable

Projection screen: 630 × 470

Worktable size(mm): 220 × 200

Light go through area: Φ 160

Z axis Travel & focusing: 80mm (Focusing travel 40mm)

Objective

Magnification Power	5 ×	10 ×	20 ×	50 ×
Object Visual Field(mm)	114 × 94	57 × 47	28.5 × 23.5	11.4 × 9.4
Object Working Distance(mm)	139	135	121	76

Errors of magnifying power: 0.08%

Lighting source

Transmission lighting: 24V 150W Halogen tungsten lamp

Indirect lighting : 24V 150W Halogen tungsten lamp

Ambient environment requirments

Room temperature: 20°C ± 5°C

Relative humidity: Not more than 60%

Overall sizes of the instrument (mm):

732 × 1505 × 1960 (curtain included) (L × W × H)

732 × 950 × 1780 (L × W × H)

Mainframe weight: 285 kg

Power Supply: AC 220V 50HZ

JT35A/35B/35E

Φ 1500 Horizontal Projector

Characteristics

- High-precision objective turntable is convenient for converting magnification and accurate in positioning.
- Worktable has a large movement range and strong load capacity, suitable for the measurement of large-size parts.
- The deflection of worktable is $\pm 15^\circ$, convenient for measuring helical parts.
- Advanced raster sensor digital display technology and data processing system can realize minimum error and high efficiency.
- Equipped with square workstage, rotary workstage to satisfy different measuring requirement of different work piece.
- Special coating process used on the reflective mirror, gain better performance on the dustproof and easy to clean.
- SLR lens optical path design, less energy loss during transmission, better quality of the image on the screen.

Model	Configuration
JT35-A	Digital display box, mortorized movement
JT35-B	Computer, PCI card,joystick 2-coordinate measurement software/mortorized movement
JT35-E	Renishaw metal encoder ,CNC automatic controller



Technical Parameters

Projection screen

Projection screen: ϕ 1500 mm

Rotation range : $0^\circ \sim 360^\circ$

Rotation division value of projection screen: 1°

Resolution of the rotary angle: $1'$

Worktable

Worktable area: 800mm \times 230mm

Measuring range

Longitudinal direction: 400mm

Vertical direction: 250mm

Transverse direction: 150mm

Resolution: 0.001mm

Light transmission size of vertical square worktable: 560 \times 255

Light transmission size of vertical circular worktable: ϕ 330

Stage deflection angle: $\pm 15^\circ$

Accuracy of the instrument: $(4+L/50) \mu m$,

of which, L=length of the workpiece measured (unit: mm)

Load capacity : 100kg

Objective

Magnification Power	10 \times	20 \times	50 \times
Object Visual Field	ϕ 150mm	ϕ 75mm	ϕ 30mm
Object Working Distance	300mm	225mm	143mm

Optic axis of lens

Maximum distance from stage: 255mm

Minimum distance from stage: 55mm

Tailstock

Maximum diameter gripped: ϕ 400mm

Maximum length gripped: 450mm

Lighting source

Transmission lighting: 24V 250W Halogen tungsten lamp

Reflecting lighting: 24V 150W Incandescent lamp

Overall sizes of the instrument (mm) : 4009 \times 2905 \times 2418(L \times W \times H)

Mainframe weight: 6000kg

Ambient environment requirements

Room temperature: $20^\circ C \pm 5^\circ C$

Relative humidity: 40%~70%

Power Supply: AC 220V 50HZ

JT36

φ 600 Vertical Projector

Characteristics

- The projection screen is mounted in vertical ways, which is convenient for user's observation.
- The light intensity is adjustable in high or low mode to suit measuring requirements of different workpieces.
- Equipped with excellent optical system, the image of objectives are clear and accurate in magnification.
- Z axis is motorized.



Technical Parameters

Screen diameter (mm) : Φ 600

Rotating range : 0° ~ 360°

Resolution of the rotary angle: 1'

Accuracy of the rotary angle : 6'

Worktable (Two Options)

Type	Small	Large
Worktable area (mm)	550 × 260	650 × 360
Range of X-coordinate (mm)	0~200	0~300
Range of Y-coordinate (mm)	0~100	0~200
Z-axis(Focusing)mm	80	
Load capacity of the worktable (kg)	10	

Accuracy of the instrument: $(4+L/25) \mu m$,

of which, L = length of the workpiece measured (unit: mm)

Magnification error:0.08%

Objective

Magnification Power	5 ×	10 ×	20 ×	50 ×	100 ×
Object Visual Field	φ 120mm	φ 60mm	φ 30mm	φ 12mm	φ 6mm
Object Working Distance	102mm	135mm	87mm	76mm	49mm
Errors of magnifying power	0.08%				

Lighting source :

Transmission lighting : 24V 150W Halogen tungsten lamp

Reflecting lighting : 24V 150W Halogen tungsten lamp

Overall sizes of the instrument (mm):

1300 × 840 × 1940(L × W × H)

Mainframe weight : 760kg

Ambient environment requirments

Room temperature: 20°C ± 5°C

Relative humidity: Not more than 60%

JT300

φ 300 Digital Measuring Projector

Characteristics

- Use circular arc profile design, beautiful in appearance and easy to operate
- Use linear guide and non-interference nut on the up and down system, more stable and comfortable to use.
- Patent coating process on the reflective mirror, better anti-dust performance .
- The light intensity is adjustable in high or low mode to suit measuring requirements of different workpieces.
- Imported long-life halogen tungsten lamps are adopted to satisfy the requirement of long-time uses of the projector.
- Equipped with excellent optical system, the objectives are clear in imaging and accurate in magnification.
- With axial flow blower fans, the bilateral heat radiation provide super radiating power.

Technical Parameters

Projection screen

Screen diameter (mm) : Φ300

Rotating range : 0° ~ 360°

resolution of the rotary angle : 1'

Accuracy of the rotary angle : 6'

Objective

Magnification Power	10 ×	20 ×	50 ×	100 ×
Object Visual Field	φ 30mm	φ 15mm	φ 6mm	φ 3mm
Object Working Distance	75mm	69mm	44 mm	26mm
Errors of magnifying power	0.08%			

Worktable

Type	Small	Large
Size of worktable	350 × 202	400 × 225
X and Y travel (mm)	150 × 100	200 × 100
Z-axis(Focusing)(mm)	0 ~ 90	
Resolution	1 μm	
Accuracy of X and Y coordinate value	(3+L/75) μm, of which,L=length of the work piece measured (unit:mm)	
Load capacity of the worktable	5kg	



Illumination source

Transmission illumination 12V 100W Tungsten halogen lamp

Reflecting illumination 24V 150W Tungsten halogen lamp

Overall Sizes of the instrument(mm)

694 × 380 × 1065(L × W × H)

Ambient environment requirements

Room temperature: 20°C ± 5°C

Relative humidity: 40%~70%

Power Supply: AC 220V 50HZ

Instrument weight: 180kg

Multi-Functional Digital Display Meter



- ❶ Multipoint acquisition can define the straight line and the circle.
- ❷ Various geometric elements can be preset.
- ❸ Various geometric elements can be determined in the combination method.
- ❹ Functions of coordinate rotation and motion of translation.
- ❺ The length of sensor or the angular value of the encoder may be set in Z-axial.
- ❻ Conversion function between the polar coordinates and the rectangular coordinates.
- ❼ Function of error correction.
- ❽ Function of RS232 output.
- ❾ Function of page output.
- ❿ Function of power-off memory.
- ⓫ Various geometric elements can be stored and recalled.

2D measuring software

Acquisition functions: Dots, lines, circles and arcs acquisition.

Construction functions: Construct lines, circles and arcs by acquired dots and calculate thread parameters.

Combined calculating functions:

The combination calculation between “dot” and “dot” gives the dot distance and midpoint coordinate;

The combination calculation between “dot and line” gives the distance between dot and line;

The combination calculation between “straight line and straight line for their crossing” gives their intersecting point coordinate and their included angle;

The combination calculation between “straight line and straight line for their centering” gives the central line information for the two lines;

The combination calculation between “circle and circle” gives the information of the crossing points and the center distance of the circle;

The combination calculation between “circle and straight line” gives the information of their crossing points and the distance from the center of the circle to the line.

Functions for the geometrical tolerance:

Measurement of the circularity between circular and arc;

Measurement of straightness;

Measurement of coaxial;

Measurement of symmetry;

Measurement of displacement.

Exchange of the coordinate system:

The coordinate transition between the rectangular coordinate and the polar coordinate;

Establish the new coordinate and set the coordinate straight.

Data output: The data can be output to AUTOCAD, EXCEL AND WORD .

