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SUNPOC

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MORE THAN 15 YEARS EXPERIENCE

Profile Projector

GUIZHOU SUNPOC TECH INDUSTRY CO., LTD.

COMPANY PROFILE

Being a professional manufacturer and exporter in the field of of quality test instruments,guizhou SUNPOC tech industry co., ltd.(SUNPOC) mainly supplys optical profile projectors, video measuring machines, tool-maker microscopes, digital readout, linear scales, hardness tester, digital caliper and measuring software, etc. The products are widely applied for in the industry of mechanic, electronic, mold and hardware for quality control etc.Adhere to the "quality first, users first" business purposes and "creating the 1st class domestic supplier, setting up international fomous brands" as the developing target of the enterprise, the SUNPOC team has worked and researched with constantly efforts to improve the quality and explore new products to serve the customers better. Under the scientific and strict management and always deliver on time and honor the contract, SUNPOC has enjoyed a good reputation both home and abroad. Currently our product has passed the ISO9001:2000, certification of 2000 international quality control system, CE certification and verification of ISO1002-1 metering certification system. SUNPOC has already established some distributor in mainly district in the world with its service and technical support networks. At the same time, our team will bring professional service for each of our customer.Our vission is that we are willing to work with the worldwide lifeful partner for a better tomorrow, to climb up a new height of optical measure-ments. let us fight together!

Revitalizing national nondestructive testing instrument industry

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SUNPOC

Profile Projector

Profile Projector

SP-3015B/SP-3020B
Digital Profile Projector

Features:

This instrument is a precession measuring device integrating optics, mechanics, electricity and computation into an organic whole; which is widely used in the measuring rooms and workshops of related factories and plants in the sectors of machinery manufacture, instrumentation, clocks and watches and electronics industries. This instrument can easily and speedily check the profiles and surface shapes of various measured parts; e.g., various parts, cutting tools and tools of sample plates, punching pieces, cams, gears, molding milling cutters, tapping tools, etc.

Technical Specification:

Model	SP-3015B/ (Erect Image)	SP-3020B(Erect Image)
Projection screen: effective diameter (mm):	φ300mm, working scope > φ300 (internally marked with asterisk-shaped line)	
Projection screen's rotation angle:	0 ~ 360°	
Resolution of rotation angle:	0.01° or 1′	
Accuracy of the rotary angle:	6′	
Object lens's magnification:	10×(standard) 20× (optional) 50×(optional) 100×(optional)	
View-field of object (mm):	φ30 φ15 φ6 φ3	
Working distance for object (mm):	75 69 26 26	
Metal stage size:	340×152mm	400x225mm
Glass stage size:	190×75mm	210x112mm
Travel—X, Y axis:	150×50mm	200x100mm
Z axis travel:	80mm	
Resolution of X Y:	0.001mm(digital display)	
Accuracy:	(4+L/25)μm	(3+L/75)μm
Stage support	4kg	3kg
Data processor:	DS-401 or DS600	
Ascent and descent mechanism:	45 ° oblique tooth gear	
Profile light source	12V/100W tungsten halogen lamp	
surface light source	24V/150W tungsten halogen lamp	
Over dimensions:	480×780×1150mm	380x806x1065mm
Weight:	135kg	180kg
Power supply:	110V/220V (switch) ; 50/60HZ(switch)	
Optional accessories:	printer , 2D measuring software	attached RS232 interface, optional 2D measuring software, ensuring convenient operation.

SP-3020
Profile Projector(reverse image)

Application:

This digital type high-precision projector is a highly efficient measuring instrument integrating light, machine and electricity. It can be widely used for industries such as mold manufacturing, metal work pressing, electronics, instrument, horologe, as well in universities, research institutes and metering examination departments.

Features:

This product features its good quality optical path, rational design, clear object lens imaging and accurate magnification, with tolerance for displayed value up to (3+L/75) μm. (Here, L stands for the measured length (mm)). It has humanized design, 45 ° oblique angle between mechanical ascent handle and operator, ensuring easy operation. No occurrence of blocking as the traditional leather belt transmission is replaced. Attached RS232 interface allows the easy upgrading for software. Asterisk-shaped line is internally marked on the glass of projection screen (exclusive design), ensuring long service life without the need of replacement.

Technical Specification:

MODEL	SP-3020 Reverse Image
Projection screen: effective diameter (mm):	φ312mm, working scope > φ300
Projection screen's rotation angle:	0 ~ 360°
Resolution of rotation angle:	0.01°or 1′
Object lens's magnification:	10×,20×(optional) 50×(optional)100×(optional)
View-field of object (mm):	φ30 φ15 φ6 φ3
Working distance for object (mm):	77 44 38 25
Metal stage size:	404×228mm
Glass stage size:	260×160mm
Travel—X, Y axis:	200×100mm (big workstage)
Z axis travel:	90mm
Resolution of X Y:	0.001mm(digital display)
Accuracy:	(3+L/200)μm
Data processor:	DC-3000
Ascent and descent mechanism:	45 ° oblique tooth gear
Profile and surface light source	24V/150W tungsten halogen lamp (German Philips)
Over dimensions:	780×780×1100mm
Weight:	190kg
Power supply:	110V/220V (switch) ; 50/60HZ(switch)
Optional accessories:	printer , 2D measuring software

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SP-3025、SP-3040
Profile Projectors

Features:

This series of profile projectors are famous for its excellent quality of the optical system. It is processed of clear image and accurate magnification. The error of the contour measuring is less than 0.08% under the illumination of transmission. This instrument provides the mini-printer (option) and foot-switch, which are convenient to output and gather the data. You can adjust the focus by ascending and descending the projection box. The measuring and profile projector is with big travel and stationary performance because the working table does not ascend or descend. The instrument can also measure the big range with high precision.

Technical Specification:

Model	Reverse image	SP-3025	SP-3040		
Working table	X-axis travel(mm)	250	300/400		
	Y-axis travel(mm)	150	300		
	Z-axis travel(mm)	80(for focus)	100(for focus)		
	Measuring accuracy(μm)	3+L/75	2.5+L/100		
	Resolution(X-axis,Y-axis)	0.5μm			
Projector screen	Screen size (mm)	Ø312 used range>Ø300 (with the meter line)			
	Screen rotary range	0°~360°			
	Resolution(X-axis,Y-axis)	1 ′ or 0.01°			
Lens	Magnification	10X(option)	20X(option)	50X(option)	100X(option)
	Object view(mm)	Ø30	Ø15	Ø6	Ø3
	Working distance(mm)	77.7	44.3	38.4	25.3
	Max.workpiece height	90mm	90mm	90mm	90mm
DRO	DC-3000 & DS600 multi-function DRO				
Illumination	The illumination of transmission and reflection: 24V/150W-halogen lamp.				
Power	110V/220V(AC), 50/60Hz, Total power=400W				
weight(kg)	180 249kg				
Optional	Mini-printer(option), Edge detector (option), software (option)				

SP-14 Φ300
Digital Measuring Projector

Features:

- SP-14 Erect image type and Reverse image type
- Long object working distance, large-sized surface and large range of measurement (three different worktables for selection)
- The up-and-down hoisting structure adopted for the projecting box can provide with a large focusing travel Z-direction;
- Transmission illuminating, clear in imaging, and intensities for transmission illuminating can be adaptable in corresponding to different magnifications, for different visual requirements
- The tower dial with three lens simultaneously would be very convenient for the replacement of magnification and for accurate locating;
- The worktable has strong rigidity and load capacity, ensuring the precision under any large-load.
- The transmission illuminating and vertical reflecting illuminating can be adaptable for different measuring requirements

Technical Specification:

Model	SP-14
Projection screen:	Φ300 mm
Rotation range:	360°
Objective Magnification Power	10X 20X 50X 100X
Object Visual Field	φ30mm φ15mm φ6mm φ3mm
Object Working Distance	74 mm 69 mm 63 mm 63 mm
Resolution:	0.001 (mm)
Stroke of Z-coordinate (Focusing):	0~100 (mm)
Accuracy of the instrument:	(3+L/75)μm,
Transmission lighting:	24V 150W Halogen tungsten lamp
Reflecting lighting:	24V 150W Halogen tungsten lamp
Overall sizes of the instrument (mm):	410×650×1100
Mainframe weight:	90 kg

Worktable(Three Optional):

Type	Small	Medium	Large
Range of X-coordinate (mm)	0~150	0~200	0~250
Range of Y-coordinate (mm)	0~100	0~150	0~150
Load capacity of the worktable (kg)	10	15	20
Worktable area (mm)	350×240	400×280	450×286

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SP-20 Ø300
Digital Measuring Projector

Features:

- The metal structure of the projecting box is light in weight.
- The up-and-down hoisting structure adopted for the projecting box can provide with a large focusing travel in Z-direction;
- Long object working distance, large-sized surface and large range of measurement (three different worktables for selection)
- The worktable has strong rigidity and load capacity
- The transmission illuminating and vertical reflecting illuminating can be adaptable for different measuring requirements.

Technical Specification:

Model	SP-20
Projection screen:	Φ300 mm
Rotation range:	360°
Objective Magnification Power	10X 20X 50X 100X
Object Visual Field	φ30mm φ15mm φ6mm φ3mm
Object Working Distance	74 mm 69 mm 63 mm 41 mm
Resolution:	0.001 (mm)
Stroke of Z-coordinate (Focusing):	0~100 (mm)
Accuracy of the instrument:	(3+L/75)μm
Transmission lighting:	24V 150W Halogen tungsten lamp
Reflecting lighting:	24V 150W Halogen tungsten lamp
Overall sizes of the instrument (mm):	410×650×1100
Mainframe weight:	80 kg

Worktable(Three Optional)

Type	Small	Medium	Large
Range of X-coordinate (mm)	0~150	0~200	0~250
Range of Y-coordinate (mm)	0~100	0~150	0~150
Load capacity of the worktable (kg)	10	15	20
Worktable area (mm)	350×240	400×280	450×286

SP-24 Ø300
Profile Projector

Features:

With beautiful appearance and high precision, this instrument can compete with similar instruments abroad. Casting aluminum is selected for the processing of worktables, light in weight;
With high-quality optical system, the objectives have clear image and accurate magnification. The fiber transmission is adopted for the reflecting illuminating, which is small in dimensions, high in brightness and convenient for uses; The two high-and-low adjustable illumination intensities for transmission illuminating can be adaptable for measuring requirements of different work-pieces;

Technical Specification:

Model	SP-24
Projection screen:	Φ300 mm
Rotation range:	360°
Objective Magnification Power	10X 20X 50X 100X
Object Visual Field	Φ30mm φ15mm φ6mm φ3mm
Object Working Distance	75 mm 70 mm 27 mm 26mm
Range of X-coordinate (mm)	200mm
Range of Y-coordinate (mm)	80mm
Resolution:	0.001 (mm)
Load capacity of the worktable (kg)	5kg
Worktable area (mm)	326x150mm
Stroke of Z-coordinate (Focusing):	0~100 (mm)
Accuracy of the instrument:	(3+L/75)μm,
Transmission lighting:	24V 150W Halogen tungsten lamp
Reflecting lighting:	24V 150W Halogen tungsten lamp
Overall sizes of the instrument (mm):	726×420×980
weight:	105 kg

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SP-27 Ø350
Vertical Profile Projector

Features:

The models are available in two versions according to the direction of the projection system viz. either horizontal or vertical. The horizontal version is particularly suitable for checking cylindrical components to be fixed between dead centres or placed on "V" supports, as well as for specimens to be clamped by means of vices. The vertical version is more convenient for checking small and thin components to be placed directly on the glass stage of the worktable. Therefore this latter version is mainly useful in the production of small metal ware, as well as plastic, rubber, electronic components and the alike.

Standard composition includes the linear transducers and encoder as well as the new digital displays/data processor with touch screen model 780-M-Touch. The new system allows carrying out direct two co-ordinates and angular measurements in addition to main geometric functions data processor. The device is complete with the optical sensor (edge finder) for on fly measurements with diascopic projection.

Technical Specification:

Model	SP-27
Projection screen:	Φ350 mm
Rotation range:	360°
Objective Magnification Power	10X 20X 50X 100X
Object Visual Field	Φ35mm φ17mm φ7mm φ3.5mm
Object Working Distance	88 mm 81 mm 54 mm 44mm
Range of X-coordinate (mm)	200mm
Range of Y-coordinate (mm)	80mm
Resolution:	0.001 (mm)
Load capacity of the worktable (kg)	5kg
Worktable area (mm)	326x150mm
Stroke of Z-coordinate (Focusing):	0~100 (mm)
Accuracy of the instrument:	(3+L/75)μm,
Transmission lighting:	24V 150W Halogen tungsten lamp
Reflecting lighting:	24V 150W Halogen tungsten lamp
Overall sizes of the instrument (mm):	775×440×980
weight:	150 kg

SP-21 Ø350
Digital Profile Projector

Features:

Especially suitable for the measurement and detection of projection image drawings and profile observation, etc.; The in-line type is adopted for the objective replacement, sides fitted, with much convenience in replacement; The bottom-placement of projection screen makes it possible for the operator to sit, more convenient for drawing and observing the magnified image. Worktable has a large moving range.

Technical Specification:

Model	SP-21
Projection screen:	ø 350 mm
Rotation range:	360°
Objective Magnification Power	5X 10X 20X 50X
Object Visual Field	Φ75mm φ35mm φ17.5mm φ7mm
Object Working Distance	163 mm 89 mm 57 mm 58mm
Range of X-coordinate (mm)	200mm
Range of Y-coordinate (mm)	100mm
Resolution:	0.001 (mm)
Load capacity of the worktable (kg)	5kg
Worktable area (mm)	380x230mm
Stroke of Z-coordinate (Focusing):	0~100 (mm)
Accuracy of the instrument:	(3+L/75)μm,
Transmission lighting:	12V 100W Halogen tungsten lamp
Reflecting lighting:	12V 100W Halogen tungsten lamp
Overall sizes of the instrument (mm):	854×480×1401
Mainframe weight:	138 kg

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SP-i6020
Ø600mm Profile Projector

Application:

This digital type high-precision projector is a highly efficient measuring instrument integrating light, machine and electricity. It can be widely used for industries such as mold manufacturing, metal work pressing, electronics, instrument, horologe, as well in universities, research institutes and metering examination departments.

Features:

SP-i6020V Profile Projector is a high precision and high efficiency optical measuring instrument integrating optics, mechanics and electronics. It is widely used in the field of machinery, instrument, meter, electronics, and light industry as well as in measuring chamber and laboratory of universities and institutes, research institutes and metrological verification department. This instrument can efficiently measure the geometric dimension and profile of various complicated shaped workpiece.

Technical Specification:

Model		SP-i6020V				
Projection screen	Size (mm)	Φ 615				
	Rotary range	0~360°				
	Resolution	1' or 0.01°				
Lens	Magnification	5×	10×	20×	50×	100×
	Field of view (mm)	Φ120	Φ60	Φ30	Φ12	Φ6
	Working distance (mm)	242.8	143.2	85.5	92	48.5
	Max. measuring height	50	50	50	50	48
X-axis Travel (mm)		200				
Y-axis Travel (mm)		100				
Metal table size (mm)		404×265				
Glass table size (mm)		270×170				
Resolution (μm)		0.5				
Indication error (mm)		2.5+L/75 (L is the length of the measured object. Unit: mm)				
Z-axis Travel (mm)		50 (focusing)				
Weight (kg)		360				
Dimension (mm)		1200×1140×1940				
Power supply:		AC 100-240V 50/60Hz. Total power: 650W				

SP-30
Profile Projector

Application:

This machine can inspect and measure contour, section and surface shape of many kinds of components which are complicated. Such as standard module, punching & stamping components, cam, screw, gear, moldings milling cutter, screw cutting tool, threaded tap etc. It is widely used in machining industry, instruments and meters industry and clock & watch industry.

Features:

- Inverted type profile projector, with close observing view to projection screen, easy to operate;
- Big square projection screen, satisfy the requirements of measurement on small parts with large projection screen;
- Suitable for [rojrction image mapping, profile shape description, template tolerance range comparison to realize quick judgment on measurements.
- Adapts straight pin mounting structure objective, easy to replace, multiple objective magnification provided for difference customer demand;
- High energy semi transmission and semi reflection illuminating;

Technical Specification:

Model	SP-30
Projection screen:	570*470 mm
Magnification error	0.08%
Objective magnification power	5X 10X 20X 50X
Object visual field	114*94mm 57*47mm 28.5*23.5mm 11.4*9.4mm
Object working distance	139 mm 135 mm 121 mm 76mm
Worktable area (mm)	220*200mm
Stroke of Z-coordinate (Focusing)	0~80 (mm)
Light pass glass worktable	160mm
Power supply and environment	AC220V±22V 50Hz
Transmission lighting:	24V 150W Halogen tungsten lamp
Reflecting lighting:	24V 150W Halogen tungsten lamp
Overall sizes of the instrument (mm):	732*1505*1960mm
Machine weight:	285 kg

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SP-500 & SP-600
Profile Projector

Application:

This digital type high-precision projector is a highly efficient measuring instrument integrating light, machine and electricity. It can be widely used for industries such as mold manufacturing, metal work pressing, electronics, instrument, horologe, as well in universities, research institutes and metering examination departments.

Features:

This instrument is a precession measuring device integrating optics, mechanics, electricity and computation into an organic whole; which is widely used in the measuring rooms and workshops of related factories and plants in the sectors of machinery manufacture, instrumentation, clocks and watches and electronics industries. This instrument can easily and speedily check the profiles and surface shapes of various measured parts; e.g., various parts, cutting tools and tools of sample plates, punching pieces, cams, gears, molding milling cutters, tapping tools, etc.

Technical Specification:

Model	SP-500	SP-600
Projection screen	Φ500mm	Φ600mm
Projection screen's rotation angle:	0 ~ 360°	
Resolution of rotation angle:	0.01° or 1′	
Accuracy of the rotary angle:	6′	
Object lens's magnification:	10× (standard) 20× (optional) 50× (optional) 100× (optional)	
View-field of object (mm):	Φ50 φ25 φ10 φ5	
Working distance for object (mm):	77 87 76 49	
Metal stage size:	500×260mm	600×360
Glass stage size:	250×153mm	250×153mm
Travel—X, Y axis:	200×100mm	300×200mm
Z axis travel:	80mm	80mm
Resolution of X Y:	0.001mm(digital display)	0.001mm(digital display)
Accuracy:	(4+L/25) μm	(4+L/25) μm
Stage support	10kg	5kg
Data processor:	DS600	DS600
Profile light source	12V/150W tungsten halogen lamp	
Surface light source	12V/150W tungsten halogen lamp	
Over dimensions:	1420×1300×1940	
Power supply:	110V/220V (switch) ; 50/60HZ(switch)	
Optional accessories:	optional 2D measuring software, ensuring convenient operation.	

SP-800 Φ800
Horizontal Profile Projector

Features:

SP-800 has three type:
SP-800A digital measuring projector
SP-800B data processing projector
SP-800E full-auto projector
The in-line type is adopted for the objective, cone fitted, compressed by spring, accurate in central location.
It is equipped with circular worktable which can be turned around in all directions, convenient for measuring gear parts
The deflection of worktable can be ±15°, convenient for measuring shaft-like helical parts;
Advanced raster measurement technology and data processing system of full and complete function can achieve high efficiency with small error;
Worktable of large travel range is adopted, having strong load capacity.
SP-800A adopts advanced raster sensor technology to measure data and digital display and the motor controlling the movement of worktable
SP-800B is equipped with computer and two-coordinate measurement software, achieving convenient and fast measurement and the motor controlling the movement of worktable.
SP-800E, the full-auto projector, providing the motor for full-auto control of the movement, has rich functions of its software, including automatic edge- tracing system.
Horizontal light-path is adopted, convenient for the measurement of the measured parts processed online.

Technical Specification:

Model	SP-800
Projection screen:	Φ800 mm
Rotation range:	360°
Objective Magnification Power	10X 20X 50X 100X
Object Visual Field	Φ80mm φ40mm φ16mm φ8mm
Object Working Distance	206 mm 123mm 85mm 78mm
Range of X-coordinate (mm)	300mm
Range of Y-coordinate (mm)	200mm
Resolution:	0.001 (mm)
Load capacity of the worktable (kg)	50kg
Worktable area (mm)	630x200mm
Stroke of Z-coordinate (Focusing):	80 (mm)
Accuracy of the instrument:	(4+L/50)μm,
Worktable rotation	±15°
Transmission lighting:	24V 150W Halogen tungsten lamp
Reflecting lighting:	16V 150W Halogen tungsten lamp
Overall sizes of the instrument (mm):	2130×1800×1950
weight:	19100 kg

SP-1200
Horizontal Profile Projector

Features:

SP-1200 has three type:
SP-1200A Automatic projectors
SP-1200B Digital Measuring Projector
SP-1200C Data Processing Projector
High-precision objective turntable is convenient for converting magnification and accurate in location.
Worktable has a larger travel range and strong load capacity, suitable for measuring the large-sized parts;
The deflection of worktable can be ±15°, convenient for measuring helical parts;
Advanced raster sensor digital display technology and data processing system can achieve high efficiency with little error;
SP-1200A is equipped with Renishaw metal raster and CNC automatic controller, achieving full-auto control measurement and data processing;
SP-1200B is equipped with digital readout to make data processing, convenient for digital display
SP-1200C is equipped with computer, PCI card, two-coordinate measurement software and hand controller, achieving the power operated measurement.

Technical Specification:

Model	SP-1200
Projection screen:	Φ1200mm
Rotation range:	360°
Objective Magnification Power	10X 20X 50X 100X
Object Visual Field	Φ120mm φ60mm φ24mm φ12mm
Object Working Distance	300mm 195mm 120mm 50mm
Range of X-coordinate (mm)	300mm
Range of Y-coordinate (mm)	200mm
Resolution:	0.001 (mm)
Load capacity of the worktable (kg)	100kg
Worktable area (mm)	880x230mm
Stroke of Z-coordinate (Focusing):	60 (mm)
Accuracy of the instrument:	(4+L/50)μm,
Transmission lighting:	24V 150W Halogen tungsten lamp
Reflecting lighting:	16V 150W Halogen tungsten lamp
Overall sizes of the instrument (mm):	3500×2320×2250
weight:	4000 kg

SP-3020Z
Horizontal Profile Projector

Application:

SPH-3020Z Horizontal Profile Projector is a photoelectric measuring system of high precision and efficiency, can inspect all kinds of surface and outline of the complicated work pieces such as cam, template, tread, gear, perform willing cutter and so on. The measurement data can be printed and output. It requires in the checking department and workshop and is widely used machinery, mould, tool, meter, and light industry.

Features:

The product structures are strong in commonality, this instrument is beautiful in its outward appearances and convenient for operations; Imported V-type straight-line slide-way is adopted for the hoisting driving of the worktable, light and comfortable in driving; The two high-and-low adjustable light intensities for transmission and indirect lightings can be adaptable for measuring requirements of different workpieces; In high quality in its optical system, the objectives are clear in imaging and accurate in multiplying factors; The fiber transmission is adopted for the indirect lighting, which is small in dimensions, high in its brightness and convenient for uses; Casting aluminum is selected for the processing of worktables, light in weight; This instrument is of super-precision, with stable and reliable performances.

Technical Specification:

Model		SPH-3020Z			
Working table	Stage size(mm)	400*150			
	X-axis travel(mm)	200			
	Y-axis travel(mm)	100			
	Z-axis travel(mm)	80(for focus)			
	Turning range	±15°			
	Resolution	(X-axis, Y-axis) 0.5μm			
	Accuracy	(3+L/200)um			
Projector screen	Screen size (mm)	Ø 300			
	Screen rotary range	0°~360°			
	Rotary angle resolution	1′ or 0.01°			
Lens	Magnification	10X	20X	50X	100X
	Object view(mm)	Ø30	Ø15	Ø6	Ø3
	Working distance(mm)	103.9	95.1	65.7	35
Data processing system	DS600, multi-function data processing system				
Illumination	Transmission: 24V/150W, cooling by fans. Reflection: 24V/150W,illuminated by two fibers ,cooling by fans.				
Power	110V/220V(AC) 50/60Hz total power=400W				
Dimension	L*W*H(mm) 1215*646*1210				
Weight	Unit: (kg) 240				
Option	Mini-printer, Edge detector, M2D software and so on, please refer to Accessories for profile projector for more details.				

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SP-25
Horizontal Profile Projector

Features:

The product structures are strong in commonality, this instrument is beautiful in its outward appearances and convenient for operations; Imported V-type straight-line slide-way is adopted for the hoisting driving of the worktable, light and comfortable in driving; The two high-and-low adjustable light intensities for transmission and indirect lightings can be adaptable for measuring requirements of different workpieces; In high quality in its optical system, the objectives are clear in imaging and accurate in multiplying factors; The fiber transmission is adopted for the indirect lighting, which is small in dimensions, high in its brightness and convenient for uses; Casting aluminum is selected for the processing of worktables, light in weight; This instrument is of super-precision, with stable and reliable performances.

Technical Specification:

Model		SP-25			
Working table	Stage size(mm)	450*200			
	X-axis travel(mm)	250			
	Y-axis travel(mm)	150			
	Z-axis travel(mm)	100(for focus)			
	Turning range	±15°			
	Resolution	(X-axis, Y-axis) 0.5μm			
	Accuracy	(3+L/200)um			
Projector screen	Screen size (mm)	Ø 400			
	Screen rotary range	0°~360°			
	Rotary angle resolution	1′ or 0.01°			
Lens	Magnification	10X	20X	50X	100X
	Object view(mm)	Ø40	Ø20	Ø8	Ø4
	Working distance(mm)	103.9	95.1	65.7	35
Data processing system	DS600, multi-function data processing system				
Illumination	Transmission: 24V/150W, cooling by fans. Reflection: 24V/150W,illuminated by two fibers ,cooling by fans.				
Power	110V/220V(AC) 50/60Hz total power=400W				
Dimension	L*W*H(mm) 1215*646*1210				
Weight	Unit: (kg) 240				
Option	Mini-printer, Edge detector, M2D software and so on, please refer to Accessories for profile projector for more details.				

SP-26
Horizontal Profile Projector

Features:

The horizontal light-path is adopted, convenient for the detection of various axis parts; the rotation of worktable is possible. With structures strong in commonality, this instrument is light in weight and beautiful in appearance; Imported V-type straight-line slide-way is adopted for the hoisting driving of the worktable, light and comfortable in driving; The fiber transmission is adopted for the reflecting illuminating, which is small in dimensions, high in its brightness and convenient for uses; The two high-and-low adjustable illumination intensities for transmission illuminating can be adaptable for measuring requirements of different work-pieces;

Technical Specification:

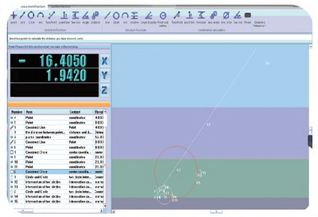
Model	SP-26
Projection screen:	Φ400 mm
Rotation range:	360°
Objective Magnification Power	10X 20X 50X 100X
Object Visual Field	Φ40mm φ20mm φ8mm φ4mm
Object Working Distance	88 mm 81 mm 54 mm 45mm
Range of X-coordinate (mm)	250mm
Range of Y-coordinate (mm)	150mm
Resolution:	0.001 (mm)
Load capacity of the worktable (kg)	15kg
Worktable area (mm)	450x150mm
Stroke of Z-coordinate (Focusing):	0~80 (mm)
Accuracy of the instrument:	(3+L/75)μm,
Transmission lighting:	24V 150W Halogen tungsten lamp
Reflecting lighting:	24V 150W Halogen tungsten lamp
Overall sizes of the instrument (mm):	687×443×942
Mainframe weight:	150 kg

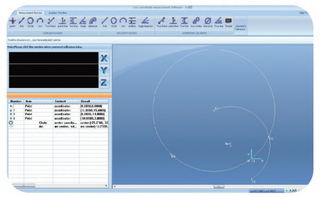
SP-CAT Measure software Instruction: (optional)

SP-CAT measuring software is developed by our company, it is suitable for the 2D measuring instruments such profile projector with RS232 interface, or connect by DRO, or by data card.

Specification:

- Measure the Point, Line, Circle, Arc and Ellipse feature with multi-point
- The functions of Axis-skew and coordinate-shift are very convenient
- The functions of element-combination can enhance the efficiency
- Save as *.dxf and edit in AutoCAD
- The data can be sent to Excel
- Shift between in English and Chinese
- Record, edit and run the program





Functions:

Element measure Can measure the Point, Line ,Circle, Arc, Angle
Can measure the rectangle with stated points
Can identify the Point, Line, Circle and the Arc automatically
Element construct Center Point, Point of intersection, Midpoint, Line, Circle, Angle
Element preset Point , Line ,Arc, Angle
Graph manage Coordinate move and cording skew ,any axis skew
Graph operation Zoom in ,Zoom out ,Move, Print, Select, Cancel select ,Delete

Digital readout DS600 introduction: (optional)

Digital readout DS600 is a mature product designed for the 2D measurement filed, it is applicable with the optical measuring instruments, such as Profile projector, video measuring system, toolmaker microscope and other vision measuring system. It is especially used with profile projector, microscope, and it can measure complicated geometry graph, measurement includes work-piece skew, establishment of coordinates system, and so on.

Technical function:

1. Measurement of point, line, circle, angle, distance, rectangle and screw thread, preset and construction. Sampling points maximum up to 50.
2. Coordinate skew and movement, it is more convenient that the operator can skew position of work-pieces for measuring, which can reduce adjust time obviously;
3. Clearance function can delete list, adjustment, and all ;
4. Obverse or Opposite direction counting function, according to the operator's requirement;
5. Half function, rapidly determine to display 1/2 value, and confirm midpoint of section;
6. Permission function: Advanced setup can be done after right password input;
7. Call function: input record ID to use existing element;
9. Communication port of foot-switch or REINSHAW probe available;
10. Printing: print graphic elements and 3-axis displaying value;
11. RS232 output function: convey current position of linear scale to PC;
12. USB output: through USB cable convey date to PC;
13. Multi-display, separately display polar coordinates and Cartesian coordinates, and can display millimeter and inch , and can shift it easily;
14. Linear compensation and section compensation in available;
15. Z-axis can connect linear scale and rotate encoder;
16. Save 100 permanent graphic elements.

Parts:

Digital readout

Linear scale

10X LENS

Micro-printer

20X LENS

50X LENS

100X LENS

Semi-transmitted mirror group

5X magnifier

50mm Standard scale

360mm glass scale

Press plate group

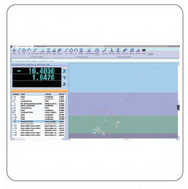
Rotary worktable

V-type fixture

Thimble cradle

Concentric circle chart

Foot switch



2D measure software