



SOBEKK

SOBEKK Precision Instruments Co., Ltd.

Add: 1Floor, B Building, CY Village Industrial Zone, Jiulong Rd, Dongcheng District, Dongguan City, Guangdong Province, China.

Tel: +86-769-23883306 Fax: +86-769-22214607 Http: www.sobekk.com Email: andy@sobekk.com

Authorized distributor:

Complaint hotline: +86-18685036799

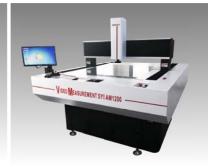
SOBEKK

PRODUCT CATALOG

Customer-focused & Striver-oriented

















SOBEKK Precision Instruments Co., Ltd.

SOBEKK (Dongguan) Precision Instruments Co., Ltd. is a high-tech company engaged in the research, development, production and sale of various kinds of optical precision instruments with providing industrial automation solutions and nonstandard optical instruments customization. Founded in 2014, it located in Chinese Manufacturing City—Dongguan. We have more than 30 employees, including 15 technicians with bachelor degree and 2 senior engineers. Our factory was awarded the title of Private Technology Enterprise of Dongguan &title of Patent Cultivating Enterprise in 2016. Meanwhile, it gets 4 National Utility Model Patents&Appearance Patents. Now, we have launched E, EP, W, S, ACNC, AZCNC, AMCNC, INSIGHT nine series of video measuring system, coordinate measuring machine and various high-precision testing machines. Our production capacity amounts to over 2000 sets per year.

Sales centers and after-sales service centers have been set in Dongguan, Xiamen, Ningbo, Kunshan, Tian-jin, Chongqing, Wuhan etc. covering the main developed regions in China mainland, also we have an R & D center in Taichung of Taiwan and an International Trade Department in Dongguan. Our products have been sold to Thailand, Vietnam, Malaysia, Korea, Canada, India, UK etc.

Goal: to be the most stable video measuring machine supplier in China

Value: Customer-focused & Striver-oriented





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Features:

- Sturdy bridge type construction with long-travel automatic vision measurement.
 Granite base keeps machine movement steadily.
- Auto-focus for height measurement, touch probe can be fixed.
- 4-axis CNC controls, full-automatic measurement
- Being equipped with navigational body tube performs a function of map navigation. (automatic zoom lens optional)
- Programmable 4 rings 8 segments ring light for surface illumination, LED light for profile illumina-tion
- "RENISHAW" metal linear encoder with high resolution of 1.0µm
- "THK" precision linear guideway & ground ball screw
- "DAHENG" special frame grabber with high-definition ensures the image sharpness of measurement



AM-CNC Specification:

Model	AM500CNC	AM600CNC	AM800CNC	AM1000CNC	AM1500CNC
Measuring range(mm)	500x400x200	600x500x200	800x600x200	1000x800x200	1500x1200x200
Weight (kg)	1100	1450	1800	3300	4300
Max. load (kg)	30	30	30	30	30
Accuracy of X-Y axis	3+L/200μm				
Accuracy of Z axis	5+L/200µm	5+L/200μm			
XYZ resolution	1µm				
Repeatability (mm)	0.003				
Linear encoder	metal linear				
Moving speed (mm/s)	X-Y: 500 Z: 100	X-Y: 500 Z: 100			
Camera type	1.3M pixel digital	1.3M pixel digital industrial color camera			
Liner guide	Taiwan"HIWIN" P	grade linear guide	way		
Optics	6:5:1 continual zo	om lens			
Magnification	optics zoom ratio:	0.7-4.5X; image z	oom ratio: 24-158	3X	
Software	SBK-CNC full-aut	SBK-CNC full-automatic measuring software			
Control system	SBK4000 fully clo	SBK4000 fully closed-loop control			
Profile illumination	LED cold lighting,	256 level programm	mable brightness	adjustment	
Surface illumination	0 0	4 rings 8 segments LED cold lighting with segmented independent control & 256 level programmable brightness adjustment			
Motor	"PANASONIC" sy	"PANASONIC" synchronous AC servo motor			
Operated mode	software + joystic	k			
Option device	Renishaw MCP p	robe. Kevence lase	er measure probe	. Auto GPS lens	



AG-CNC Automatic High precision Vision Measuring Machine

Features:

- Measuring table is made of aerospace aluminum alloy with high rigidity. Suitable for high-speed move-ment, this material is very light and with low inertia to ensure the long-term stability of the machine.
- Imported key components with rigorous, normative assembling and adjustment
- 4-axis controls, full automatic measurement
- Being equipped with full automatic zoom lens tube performs 4-axis auto-measurement.
- Adopting high-definition "DAHENG" frame grabber ensures the image sharpness of measurement
- Japan "THK" high precision linear guideway and ground ball screw
- "RENISHAW" metal linear encoder with high resolution of 0.5µm
- Adopting "RENISHAW" probe system realizes 3D contacted measuremen

AG-CNC Specification

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Model	AG300CNC	AG400CNC	
Measuring range(mm)	300*200*180	400*300*180	
Machine size(mm)	1450*1050*1650	1600*1200*1650	
Weight (kg)	450	500	
Max. load (kg)	25	25	
Accuracy of X-Y axis	1.5+L/200µm		
Accuracy of Z axis	optical: 2+L/250μm, laser: 1.5+L/250μm		
XYZ resolution	0.0001mm		
Repeatability (mm)	XY :1um, Z: Optical 3um, laser 1.5um		
Moving speed (mm/s)	X-Y: 400 Z: 100 (high precision move 0-60)	mm)	
Camera type	1.3M pixel digital industrial color camera		
Liner guide	Japan"THK" SP grade linear guideway		
Screw rod	"THK" ground ball screw		
Optics	6:5:1 continual zoom Auto GPS lens		
Magnification	optics zoom ratio: 0.7-4.5X; image zoom ratio	o: 24-158X	
Software	SBK-CNC full-automatic measuring software		
Control system	SBK4000 fully closed-loop control		
Profile illumination	LED cold lighting,256 level programmable br	ightness adjustment	
Surface illumination	Surface illumination 4 rings 8 segments LED cold lighting with segmented independent control & 256 level programmable brightness adjustment		
Motor	"PANASONIC" synchronous AC servo motor		
Operated mode	software + joystick		
Option device	Renishaw MCP probe, Keyence/Omron laser measure probe		

AZ-CNC Automatic vision measuring machine



Features:

- Measuring table is made of aerospace aluminum alloy with high rigidity. Suitable for high-speed move-ment, this material is very light and with low inertia to ensure the long-term stability of the machine.
- Imported key components with rigorous, normative assembling and adjustment
- 4-axis controls, full automatic measurement
- Being equipped with full automatic zoom lens tube performs 4-axis auto-measurement.
- Adopting high-definition "DAHENG" frame grabber ensures the image sharpness of measurement
- Japan "THK" high precision linear guideway and ground ball screw
- "RENISHAW" metal linear encoder with high resolution of 0.5µm
- Adopting "RENISHAW" probe system realizes 3D contacted measuremen

AZ-CNC Specification

Model	AZ300CNC	AZ400CNC	AZ500CNC	
Measuring range(mm)	300*200*180	400*300*180	500*400*180	
Machine size(mm)	1450*1050*1650	1600*1200*1650	1800*1400*1650	
Weight (kg)	450	500	650	
Max. load(kg)	20	25	25	
Accuracy of X-Y axis	2+L/200μm	2+L/200μm		
Accuracy of Z axis	5+L/200μm			
XYZ resolution	0.5µm			
Repeatability (mm)	0.002			
Linear encoder	RENISHAW" metal linear			
Moving speed (mm/s)	X-Y: 400 Z: 100			
Camera type	1.3M pixel digital industrial color camera			
Liner guide	Japan"THK" SP grade linear	Japan"THK" SP grade linear guideway		
Screw rod	"THK" ground ball screw			
Optics	6:5:1 continual zoom Auto GPS lens			
Magnification	optics zoom ratio: 0.7-4.5X; image zoom ratio: 24-158X			
Software	SBK-CNC full-automatic mea	asuring software		
Control system	SBK4000 fully closed-loop c	ontrol		
Profile illumination	LED cold lighting,256 level p	rogrammable brightness adjustme	nt	
Surface illumination	4 rings 8 segments LED cold lighting with segmented independent control & 256 level programmable brightness adjustment			
Motor	"PANASONIC" synchronous	AC servo motor		
Operated mode	software + joystick			
Option device	Renishaw MCP probe, Keyence laser measure probe			

A-CNC Automatic vision measuring machine

Features:

- Measuring table is made of aerospace aluminum alloy with high rigidity. Suitable for high-speed movement, this material is very light and with low inertia to ensure the long-term stability of the machine.
- Imported key components with rigorous, normative assembling & adjustment
- 3-axis CNC controls; full-automatic measurement.
- Being equipped with a navigational body tube realizes the function of map navigation.
- Adopting high-definition frame grabber ensures image sharpness of measurement.
- "HIWIN" SP level precision linear guideway and "TBI" ground ball screw
- High-resolution exposed linear encoder with resolution of 1µm



A-CNC Specification:

Model	A300CNC	A400CNC	A500CNC
Measuring range(mm)	300*200*180	400*300*180	500*400*180
Machine size(mm)	1450*1050*1650	1600*1200*1650	1800*1400*1650
Weight (kg)	450	500	650
Max. load(kg)	20	25	25
Accuracy of X-Y axis	3+L/200µm		
Accuracy of Z axis	5+L/200µm		
XYZ resolution	0.5µm		
Repeatability (mm)	0.003		
Linear encoder	glass linear scale		
Moving speed (mm/s)	X-Y: 400 Z: 100		
Camera type	1.3M pixel digital industrial color camera		
Liner guide	Taiwan "Hiwin" SP grade linear guideway		
Screw rod	"TBI" ground ball screw rod		
Optics	6:5:1 continual zoom auto lens		
Magnification	optics zoom ratio: 0.7-4.5X; image zoom ratio: 24-158X		
Software	SBK-CNC full-automatic me		
Control system	SBK4000 fully closed-loop c		
Profile illumination	LED cold lighting,256 level p	rogrammable brightness adju	ustment
Surface illumination	4 rings 8 segments LED cold lighting with segmented independent control & 256 level programmable brightness adjustment		
Motor	Japan AC servo motor		
Operated mode	software + joystick		
Option device	Renishaw MCP probe, Keyence /Omron laser measure probe		

AC-CNC Automatic vision measuring machine



Features:

- Imported key components with rigorous, normative assembling & adjustment
- 3-axis CNC controls, full-automatic measurement
- Equipped with high-definition detent lens
- High-definition frame grabber
- Precision "HIWIN" P level linear guideway "V" type cross roller guideway; high-precision linear drive screw rod made by Germany
- High-accuracy linear scale with resolution of 1um

AC-CNC Specification:

Model	AC300CNC	AC400CNC	AC500CNC
Measuring range(mm)	300*200*180	400*300*180	500*400*180
Machine size(mm)	850*1300*1550	1000*1400*1550	1200*1500*1550
Weight (kg)	260	350	450
Max. load(kg)	20	25	25
Accuracy of X-Y axis	3+L/150μm		
Accuracy of Z axis	5+L/100μm		
XYZ resolution	1.0µm		
Repeatability (mm)	0.005		
Linear encoder	glass linear scale		
Moving speed (mm/s)	X-Y: 200 Z: 100		
Camera type	SBK-HC536 1/2 inches 700 lines industrial color camera		
Liner guide	Z axis:"Hiwin" P linear guideway, XY use "V"type linear guideway		
Screw rod	Z axis:"TBI" ground ball screw rod, XY usr normal screw rod		
Optics	6:5:1 continual zoom step lens		
Magnification	optics zoom ratio: 0.7-4.5X; image zoom ratio: 24-158X		
Software	SBK-CNC full-automatic me	asuring software (simply vers	sions)
Control system	SBK4000 fully closed-loop of	ontrol	
Profile illumination	LED cold lighting,256 level programmable brightness adjustment		
Surface illumination	4 rings 8 segments LED cold lighting with segmented independent control & 256 level programmable brightness adjustment		
Motor	China "Tiger" synchronous A	AC servo motor	
Operated mode	software, can option standar	rd CNC software with"joystick	("
Option device	Renishaw probe, Auto zoon GPS lens, standard CNC software, joystick		

S-Series Semi-Automatic Vision Measuring Machine

Features:

- Z-axis adopts servo motor driving, to realize motorized autofocus & improve the error and the manual operability of machine.
- Granite base with sturdy frame construction
- Bridge type construction for large work-piece that requires small measuring range
- Autofocus & semi-automatic measurement solve the problems of geometrical measurement
- "HIWIN" P level linear guideway and precision cross roller guideway for increased accuracy & working life
- High-definition detent zoom lens and high-resolution CCD performs high-definition measurement.
- Supports different file formats of data output such as Word, Excel, CAD etc.



S-series Specification:

Model	S500	S600	S800	
Measuring range(mm)	500*400*200	600*500*200	800*600*200	
Machine size(mm)	1200*900*1500	1400*1100*1500	1800*1400*1500	
Weight (kg)	300	350	400	
Max. load(kg)	20	25	25	
Accuracy of X-Y axis	3+L/150μm			
Accuracy of Z axis	5+L/150μm			
XYZ resolution	1.0µm			
Repeatability (mm)	0.005			
Linear encoder	glass linear scale			
Moving speed (mm/s)	X-Y: manual Z: 100			
Camera type	SBK-HC536 1/3 inches 700 lines industrial color camera			
Liner guide	Z axis:"Hiwin" P linear guideway, XY use "V"type linear guideway			
Screw rod	Z axis:"TBI" ground ball scre	Z axis:"TBI" ground ball screw rod, XY use normal screw rod		
Optics	6:5:1 continual zoom step lens			
Magnification	optics zoom ratio: 0.7-4.5X; image zoom ratio: 24-158X			
Software	SBK-JCNC semi-automatic	SBK-JCNC semi-automatic measuring software (simply versions)		
Control system	SBK3000 control box			
Profile illumination	LED cold lighting,256 level p	programmable brightness adj	ustment	
Surface illumination	LED cold lighting with segmented independent control & 256 level programmable brightness adjustment			
Z axis Motor	China "Tiger" synchronous	,		
Operated mode	software and handle wheel			
Option device	0.5X, 2X extend lens			

E-Serial Manual Vision Measuring Machine



Features:

- Taiwan "HIWIN" P level linear guideway and precision cross roller guideway for increased accuracy & working life.
- Integrated granite base and column ensures machine stability.
- Supplied with SBK-E multifunctional 2.5D measuring software, automatic edge detection and vision height measurement function.
- Supplied with removable & dismountable console support table .
- High-definition detent step zoom lens and high-resolution CCD performs high-definition measurement.
- Supports different file formats of data output such as Word, Excel, CAD etc. DXF import for quick inspection.
- S300, S400, S500 the Z axis is with motor move and auto focusing.
- EP serial is with Renishaw probe 3D measurement

E-series Specification:

	E200	E300	E400	E500
Model	,	S300	S400	S500
Model	/	Z axis auto	Z axis auto	Z axis auto
	EP200 3D probe	EP300 3D probe	EP400 3D probe	EP500 3D probe
Measuring range(mm)	200*100*200	300*200*200	400*300*200	500*400*200
Machine size(mm)	750*1300*1500	750*1300*1500	900*1400*1500	1100*1125*1650
Weight (kg)	300	300	400	530
Max. load (kg)	20	25	25	30
Accuracy of X-Y axis	3+L/200µm			
Accuracy of Z axis	5+L/200μm			
XYZ resolution	1.0µm			
Repeatability (mm)	0.003			
Linear encoder	glass linear scale			
Camera type	SBK-HC536 1/3 inches 600 lines industrial color camera			
Liner guide	Z axis: Taiwan"HIWIN" P grade linear guideway; XY use "V" type linear guideway			
Optics	6:5:1 continual zoom step lens			
Magnification	optics zoom ratio: 0.7-4.5X; image zoom ratio: 24-158X			
Software	SBK-E manual 2.5	D measure software		
Probe	Renishaw MCP pro			
Z axis motor	0 ,	hronous AC servo m	,	
Control system	SBK3000 control box, USB port, adjustable light			
Profile illumination	LED cold lighting,2	256 level programmal	ble brightness adjus	tment
Surface illumination	LED cold lighting with segmented independent control & 256 level programmable brightness adjustment			
Operated mode	handle wheel			
Option device	Renishaw MCP probe, 0.5X, 2X extend lens			

W-series Horizontal Vision Measuring Machine

Features:

- With "HIWIN" P level linear guideway and precision cross roller guideway for increased accuracy & working life
- Supplied with SBK-E multifunctional 2.5D measuring software, automatic edge detection and vision height measurement function.
- Supplied with removable & dismountable console support table
- High-definition detent step zoom lens and high-resolution CCD performs high-definition measurement
- Supports different file formats of data output such as Word, Excel, CAD etc. DXF import for quick inspection.



W-Series Specification:

Model	W200	W300	
Measuring range(mm)	200*100*200	300*200*200	
Machine size(mm)	950*845*1285	1050*845*1285	
Weight (kg)	150	190	
Max. load (kg)	20	20	
Accuracy of X-Y axis	3+L/200µm		
Accuracy of Z axis	5+L/200µm		
XYZ resolution	1.0µm (option 0.5um, 0.1um scale)		
Repeatability (mm)	0.003		
Linear encoder	glass linear scale		
Camera type	SBK-HC536 1/3 inches 600 lines industrial color camera		
I iner dilide	Z axis: Taiwan"HIWIN" P grade linear guideway; XY use "V" type linear guideway		
Optics	6:5:1 continual zoom step lens		
Magnification	optics zoom ratio: 0.7-4.5X; image zoom	ratio: 24-158X	
Software	SBK-E manual 2.5D measure software		
Control system	SBK3000 control box, USB port, adjustal	ble light	
Profile illumination	LED cold lighting,256 level programmable	le brightness adjustment	
Surface illumination	LED cold lighting with segmented independent control & 256 level programmable brightness adjustment		
Operated mode	handle wheel		
Option device	0.5X,2X extend lens		

Extended Function and Option Device



3D Probe Measuring

Features:

• The probes are mainly used for contact measurment, the image combine with the probe, complementary advantages, can use for the measurment of: spatial heght, spatial flatness, cylindrical, cone, sphere, spatial point, spatial surface. these machines are wildly used in the measurement of: auto part measurement for high precision requirement; mould parts measurement.

Matching machine model:

A-CNC	AC-CNC	AZ-CNC
AM-CNC	S	E

Recommend brand:

UK Renishaw

Laser / White Light Scanning Measuring

 the laser and white light sensor are mainly applied in non-contact measurement, these machine are widely used in: Mobile panel, The LED backlight module, Auto for high precision measurement requirement, Mould parts measurement.

Matching machine model:

A-CNC	AC-CNC	AZ-CNC
AM-CNC	ς	F

Recommend brand:

Japan Keyence Japan OMRON







Optical Projector Series

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.

Vertical φ 300mm profile projector

	SP-3015B (Erect Image)	SP-3020B (Erect Image)
Metal stage size:	340×152mm	400×225mm
Glass stage size:	190×75mm	210×112mm
Travel—X, Y axis:	150×50mm	200×100mm
Z axis travel:	80mm	80mm
Over dimensions:	480×780×1150mm	380×806×1065mm
Weight:	135kg	180kg
	ø300mm, working scope >ø300	
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×	
View-field of object (mm):	φ30 φ15 φ6 φ3	
Working distance for object (mm):	75 69 26 26	
Resolution of X Y:	0.001mm(digital display)	
Accuracy:	(3+L/75)µm	
Stage support	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	
Power supply:	110V/220V (switch); 50/60HZ(switch)	
Optional accessories:	attached RS232 interface, optional 2	2D measuring software





Horizontal φ -350 φ 400mm Profile Projector

Model	SP-25	SP-26		
Projection screen	φ350 mm	Ф400 mm		
Rotation range	360°	360°		
Objective Magnification Power	10X 20X 50X 100X	10X 20X 50X 100X		
Object Visual Field	$\phi 35mm \phi 17.5mm \phi 7mm \phi 3.5mm$	Φ40mm φ20mm φ8mm φ4mm		
Object Working Distance	88 mm 81 mm 54 mm 45mm	88 mm 81 mm 54 mm 45mm		
Range of X-coordinate (mm)	200mm	250mm		
Range of Y-coordinate (mm)	150mm	150mm		
Resolution	0.001 (mm)	0.001 (mm)		
Load capacity of the worktable(kg)	10kg	15kg		
Worktable area (mm)	400x150mm	450x150mm		
Stroke of Z-coordinate (Focusing)	0~80 (mm)	0~80 (mm)		
Accuracy of the instrument	(3+L/75)μm,	(3+L/75)μm,		
Transmission lighting	24V 150W Halogen tungsten lamp	24V 150W Halogen tungsten lamp		
Reflecting lighting:	24V 150W Halogen tungsten lamp 24V 150W Halogen tungsten lam			
Overall sizes of the instrument (mm)	687×443×942	687×443×942		
Mainframe weight	150 kg	150 kg		



OT Series Features:

- Reliable measurement only by pressing the start measurement button.
- Measurement time will be reduced from 5 minutes to 5 seconds.
- Auto-measurement breaks through the traditional measurement limitation!
- A new measurement way-- "Place and Press"
- No need for positioning, focus adjustment, work stage adjustment and data record.



press the key ensure the measurement

OT-Series Specification:

Model	QT50	QT70	QT80	QT120	QT150
Field of View(mm)	69*51	92*68	104*77	166*123	201*151
Magnification	0.267	0.2	0.177	0.111	0.09
Accuracy	3um	5um	5um	8um	12um
Repeatability	2um	2um	2um	3um	5um
Machine Size(cm)	40*46*90	40*46*90	55*63*130	90*60*150	90*60*185
Weight(kg)	30	38	55	120	180
CCD	3.0 Mpexl	5.0 Mpexl	8.0 Mpexl	12.0 Mpexl	12.0 Mpexl
Measuring speed	≤5s (withn100mm)				
Optics	Double telecentric lens				
surface illumination	Zoomable ring light source				
Profile illumination	Parallel Telecentric coaxial light source				
Z Axis travel	50mm				
Auto Focus	Yes				
Software	SBK-OT S	Soft			
Operation environment	t Temperature:20℃±5℃, Hunidty:40-75% Vibration: <0.002g, lower than 15HZ				
Voltage & Power	220V/50HZ/3A, 150W-300W				
warranty	1 year				

Metallographic Tool-Make Microscope

Features:

MC-Series metallographic tool-maker ,microscope adopts the latest Z-axis automatic measuring system which is researched & developed by the SOBEKK itself. With the automatic focusing system, the repeatability can reach 1.5 UM by using the most advanced optical fiber high-definition camera, which is the highest accuracy of optical measurement for z-axis measurement of the microscope in China.

With the automatic focusing system of Z axis, it greatly reduces the complexity of manual operation.

The MC-Series metallographic microscope is equipped with the latest MX infinite distance correction optical lens or NIKON's latest CFI60 infinite high resolution optical lens.

Under the observation of a high magnification, the resolution of the workpiece will be increased , and the working distance of the standard high ratio can reach 1mm.

The five-hole circumvolve nosepiece can be used for the bright field observation. The bright & dark field or bright & dark field with DIC is available also.

The lamp source adopts the international advanced LED lighting to minimize the thermal expansion error that caused by the use of halogen bulb in the past.

Different circumvolve nosepieces can be selected according to your test requirements.

By using the integrated MM controller interface support, the latest DP - E1 data processor or SC counter and SBK-MAX data processing software,

SOREK

the MC-300/400 can provide you with excellent geometric data processing & storage capacity.

With Electronic handwheel gear device for coarse and fine tuning, it makes the instrument semi-automatic to improve the accuracy.

Applications: precision mould measurement, microelectronic observation and measurement, TFT liquid crystal inspection and measurement, 4"/5"/ 6"/8"/12"/ semiconductor wafer inspection and measurement.

MC-Series Specification:

MC-Series Specification:			
Model	MC-300	MC-400	
Table travel range(XYZ)	300X200X150mm	400X300X150mm	
Dimension	900*700*980mm	1000*800*980mm	
Resolution	0.0001mm		
Accuracy	(2+250/L) um		
Repeatability accuracy	2um		
X.Y move style	Manual handle		
Z move style	Automatic focus(servo motor)+ Manual pulse handwheel focus(min		
CCD	1/2 inch 750 line color camera		
Software	SBK-MM		
Work-table loading	20KG		
Illuminating system	21V150W cold light source transmission, 10W LED reflection		
Nosepiece	Five-hole objective rotary table (with DIC slot)		
Optical eyepiece tube	Trinocular tube		
Eyepiece	WF 10X/22		
Adaptor lens	0.5X, 1X		
Magnification	10 X -3000 X		
	LWD PLAN 5X: (N.A) 0.14, wor		
Bright filed lens	LWD PLAN 10X: (N.A) 0.25, wor		
	LWD PLAN 20X: (N.A) 0.40, wor	9	
	LWD PLAN 50X: (N.A)0.55, world		
Optical system	CSIC infinity correction optical system		
Power	220V±10% , 50Hz , 0.5KW		
envirment requiry	temperature range: 22±2℃, humidity range: 30%-70%		
optional parts	100X lens, Dark-field, polarized, D	IC(differential interference	

Stereo/Video /Measuring Microscope >> Feature

- Are widely used in : school teaching in the nature science; Daily inspection of medical institutions
- The assembly, test, measuring, and quality control for precision manufacturing, especially for checking IT industry.

Binocular zoom stereo microscope SBK-6745 45 Degree 01:06.7 WF10X/22mm 6.7-45X 54-75mm 95mm



Gimbal trinocular cameral microscope

Model No	SBK-6745LW
Magnification	01:06.7
Angle of viewing head	45 Degree
Eyepiece	WF10X/22mm
Magnification	6.7-45X
Interpupillary range	54-75mm
Working distance	95mm
Horizontal moving distance	235mm
Height of vertical upright	380mm



Trinocular zoom stereo microscope

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Model No	SBK-0745L
Magnification	01:06.7
Angle of viewing head	45 Degree
Eyepiece	WF10X/22mm
Magnification	6.7-45X
Interpupillary range	54-75mm
Working distance	105mm



Vision microscope(view, measure, store)

Model No	SBK-0745T
Magnification change	01:06.7
CCD	3 million Pixels
Magnification	27-176X
Working distance	105mm
Display	9 inches LCD
Base size	320*260*12



Metallographic microscope >> Feature

- As the new series of microscope for industrial, can meet the observe requirement for development, quality management, and internal inspection of manufacturing process.
- Application field: semiconductor inspection, FPD, circuit package, circuit board, material, medical equipment, casting, metal, ceramic parts, precision mould

LV-150N/NL/NA metallographic microscope



Board: it can use standard and high contrast DIC plate that suitable for sample observe, the series of LV-N very suitable for observing the small difference in precision mould and equipment.



Semiconductor(IC chip): It can realize the bright observation in the dark field through adopt the system of objective dark field lighting that developed by Nikon, thus to inspect the specimen's difference and defect in a high



Semiconductor(IC chip):the LV-N series adopt a full range of anti-glare measures for the system of objective lighting, to ensure generate a bright, high-contrast image.



Board(welding spot):the LV-N series show a excellent performance for observing the specimen of organic EI or install the board that have florescenc.





SBK-120 small metallographic microscope

Optical system	Infinite flat field optical system		
Objective	Infinity flat field achromatic long working distance		
Metallographic objective	4X / 0.1 / 17.3, 10X / 0.25 / 10, 20X / 0.4 / 5.8, 40X / 06 / 2.9		
Eyepiece	PL10X High focus flat field eyepiece, view field φ18mm		
Observing tube	Positive Hinge trinocular, 25°incline		
Illuminating system	Kohler and vertical illumination system with variable aperture		
murminating system	diaphragm and view field variable barrier diaphragm		
Illuminating	6V/24W halogen lamp		
focusing	Coaxial coarse/fine adjust focusing		
Objective converter	Four converter		
Object Stage	Double movable platform, size 150X140mm, range: 75X50mm		
Color filter	Blue, green, yellow, frosted glass sheet		

SBK-6R large metallographic microscope

Optical system	Infinite flat field optical system
Objective	Infinity flat field achromatic long working distance
Metallographic objective	5X/0.17/12, 10X/0.25/6, 20X/0.4/5, 50X/0.7/2, bright and dark field
Eyepiece	PL10X High focus flat field eyepiece , view fieldφ22mm
Observing tube	Positive Hinge trinocular, 25°incline
	Reflective Kohler illumination, bright and dark field, simple polarized interface, 12V/100W halogen lamp, preset center, using digital dimming, with light intensity setting and reset function, with variable aperture diaphragm
Focusing	Coaxial coarse/fine adjust focusing, coarse adjust 33mm (focusing 1mm) fine adjust 100 um/circle
Adjustable precision	1um
Max sample height	32mm
Objective converter	Five converter
Object Stage	6 " rectangular mechanical movable platform, range 158*158mm, low coaxial adjustment, with clutch control handle, can quickly move



Intelligent professional measuring software Make your measurement more precise



Concise Interface

 SBK measuring software, is the latest professional software of SOBEK Corp. It's easy-to-use and user-friendly, with a quick measurement programming and operating control.

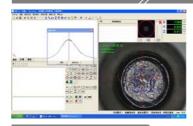
All-around geometrical elements measurement

• SBK measuring software performs geometrical elements measurement such as points, lines, circles, arcs, curves, ellipses, rectangle, groove, rings, distances, angles & points group, selecting tested elements quickly.It can build center point, endpoint, intersection, two straight, parallel, perpendicular, tangent, centerline, merge line, merge circle, merge arc, providing powerful technical support for automatic measurement.

Powerful compatibility makes your measurement more quick and accurate.

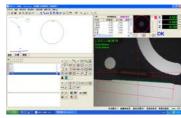
 Surface illumination, profile illumination & coaxial lighting supported. Segmented independent controlled surface illumination performs map navigation function, making an intuitive and quick measurement. Providing CAD draft input & edit, build a coordinate for program measurement directly. Software controlled lighting. Auto-focusing, auto lighting adjustment, auto probe running.

Software Functions



Precise auxiliary focusing

 Indenting the best surface of testing object for measurement automatically through software control can reduce visual error of artificial focus, increasing the accuracy and stability for measurement.



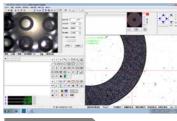
Automatic circle & line detection, segmented automatic detection

 Draw a circle or a line automatically; For a large work-piece, it can draw a circle or a line segmentally, that makes the measurement more precise and reduce the artificial measurement error.



Full view scanning & mapping

 Software can used for scanning the tested area of the work-piece only by selecting the diagonal of tested area, and combine all the part views into a complete image.



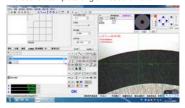
Vision navigation

 A wide field navigational system, can quickly locate the position of the work-piece that needs to test, reduce the trouble of detect the tested position of a work-piece and enhance the efficiency of measurement.



Draft comparison & template function

- Input the CAD draft of the work-piece, to compare with the real work-piece
- Supporting concentric circle measurement templates, grid template distance measurement, crosshair template angle measurement



Marco Measurement & Elements Preset

- Preset the point, line, circle, arc, oval, rectangle, groove and ring directly by keyboard.
- Marco measurement can complete the elements combination to reduce the manual operation and increase the efficiency of measurement

input & edit, build a coordinate directly. Software controlled lighting adjustment, auto probi

Application Field

I . Electronic manufacturing

Vision measuring machine is suitable for PCB manufacturing, mobile phone manufacturing, terminal connector manufacturing, lead frame, switch, home appliance manufacturing, backlight module and so on.



PCB manufacturing

PCB manufacturing

In the PCB industry, Vision measuring machine is mainly used in high-density PCB profile measurement. Nowadays, customers have strict requirements on the appearance of PCB on the basis of the strict requirements of electrical products performance. Its shape tolerances also tend to be harsh, so the Vision measuring machine just makes up for this gap.

In addition, if it is possible the tech can be expansion, Vision measuring machine can also be used for PCB film measuring and a high level inspection for production tools when plate making. Through the engineering data provided, checking distance between PCB and film by Vision measuring machine, then data list analysis, which can get science PCB film expansion coefficient, thus scientifically assisted in production.

Terminal connector manufacturing

Array aligned products, the measurement software does not require full scanning when programming, just uses replication, so can reduce time for programming and improve design efficiency.



terminal connector manufacturing

Mobile manufacturing

Mobile phone parts has the characteristics of small, thin and soft, and the measurement of these parts is required more and more accurate, more and more high quality requirements, the vision measuring machine has a powerful zoom function, focus on precision measurement of small size, all components of the mobile phone body are required for rapid measurement and detection by vision measuring machine, so achieve high quality, high efficiency of the production



II. Mechanics manufacturing

 vision measuring machine is suitable for the following products: fixture, gauge, box, stamping parts, casting, sheet metal parts, molds and other precision measurement.
 Sobek vision measuring machine used to measure mechanical parts's precise dimension, including position, concentricity, straightness, roundness, profile dimensions.



injection mould

manufacturing cylinder block

III. Liquid crystal display

 Vision measuring machine is suitable for the following products: LCD panel, mobile phone panel, OLED, LED, LCD, optical fiber, touch screen, arc surface and so on.

With the improvement of living standards, display technology develop, high-definition display is used by more and more industries. LCD industry is becoming more and more high-quality. From cutting to printing, assembly, inspection, and the inspection and manufacture of related materials, each process needs to be strictly controlled.



IV. Precision hardware

Vision measuring machine is applies to measure following products: shaft diameter, bearing, blind holes, steel nets, cutting tools, screws, springs, sealing parts, tool-machine accessories and so on, by virtue of ours measurement technology and software technology, to satisfy the precision hardware refinement, standardization, automation, high efficiency requirements.



precision Hardware gear

V. Auto manufacturing

 Vision measuring machine is suitable for measuring following products: engine case, plastic parts, auto pipes, cam, glass, spark plug, engine fittings, instrument panel, lamps and lanterns, and other accessories.





auto part manufacturing

VI. Industrial materials

 Vision measuring machine is suitable for measuring following materials: magnetic materials, insulation materials, ceramic materials, glass materials, plastic materials size measurement.





soft material sealing ring

magnetic materials

Cutomer succeed cases

Successfully applied to the following enterprises







艾比森

































达尔电子







