More Than 15 Years Experience In Video Measuring Machine

Quick Response /Free On-Site Installation & Training / Technology Support



Measurement application

1.Connector

2.Sheet Metal Part

3.Spring

4. Display

5.PCB

6.Precision Mechanical part

7. Electrical Part

8.Car part

9.Mould

10.Gaskets & Seals

11.Plastic Product

12.SMD Bracket

13.Insulation Materials

14. Cell Phone Pane

15. LED Pane



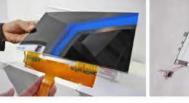




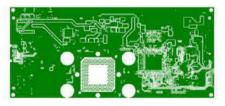


















Experience SOBEKK High Precision VMM

SOBEKK

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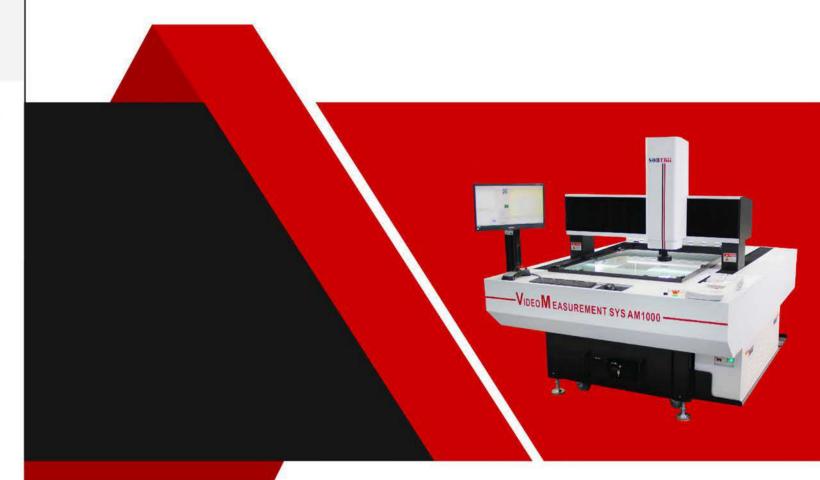
Authorized distributor:



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PRODUCT CATALOG

SOBEKK PRECISION INSTRUMENT CO., LTD

































China Sales Network

More Than 20 Sales & Service Center:Shanghai Jiangsu, Tianjin, Chongqin ,Wuhan, Ningbo, Taiwan

Global Sales Network

More than 30 Sales \$ Service Center :USA, Mexico, Korea, Poland, Hungary, Malaysia, Thailand, Vietnam ...





Purchase By Fortune 500 Companies:

SYTECH, HAN'S Laser, TPK, WISTRON, FOUNDER... Support third-party detection: SGS, ilac MRA









Brand Meaning:

People-oriented, pioneering and innovative, mastering core technology, permanent management

Business philosophy:

Technical innovation, advocating quality, honesty and trustworthiness, five-star after-sales service

Company Mission:

Adhering to traditional culture, promoting entrepreneurship, advocating service quality, pursuing excellent quality, advancing with the times, pioneering and innovative

Product Application:





Focus on video measuring machine industry, more than 15 years experience. Strict Process

C on tinuous innovation, 30% of the annual R&D capital investment.

Professiona Team

More than 20 kinds of models, Continuous production, Prompt delivery. After-Sell Service

service attitude more than 20 sales & service center at China , and 1 export & import department .

Customer-centric



AM-CNC Series

Bridge Style Full Automatic Video Measuring Machine

AM-CNC Series, measuring range from (500*400mm) to (2500*1600mm), you can select suitable range according to your product situation

Features:

- All machine adopt same software (SBK-IN-SPEC), simply operation
- Lifetime software upgrade without cost
- Special move control system ,the fastest measuring speed can reach 600mm/s
- Adopt Germany "RSF" resolution 0.0005mm metal linear scale
- Adopt auto GPS lens ,User-friendly measurement experience



Technical Parameter:

Model	AM500CNC	AM600CNC	AM800CNC	AM1000CNC	
Travel Range (mm)	400x500x200	500x600x200	600x800x200	800x1000x200	
Dimension (mm)	1268x1431x1742	1337x1530x1783	1437x1730x1783	1766x2200x1833	
Weight (kg)	1100	1250	1450	2110	
Max load (kg)	30				
XYaxis accuracy (μm)	3.0+L/200				
z axis Accuracy	5.0+L/200(objective lens ration ≥3X)				
Repeatability (µ m)	≦3				
CCD	1.3M digital color camera (resolution 1920*1080)				
Fastest move speed (mm)	600mm/s				
Operation Mode	joystick+software				
Resolution	Germany "RSF" metal linear scale resolution 0.0005mm				
magnification	optic 0.7-4.5x; vision 44.96-258.63X				
illumination	profile illumination system /surface illumination system /4 ring 8 segment LED cold light				
Motor	Japan Panasonic AC servo motor, position accuracy ≤0.002mm				
guideway /Screw	Taiwan "Hiwin" pred	cision linear guideway / 7	Taiwan "TBI" Grinding bal	I screw	

Laser Measuring

None-contact measuring for height & flatness

*Specification: 2 kinds of laser can optional according to usage

Model	Measuring range	Spot size	Resolution	Usage
Laser ZW-5000	10mm 20mm 30mm	φ9 Φ13 Φ18	0.25 µm	Rough surface or shiny products; LED packaging, circuit board soldering, connector coplanarity, lens thickness,
Laser ZW-7000	10mm 20mm 30mm	φ50 Φ70 Φ100	0.25 µ m	glass surface curvature, segmentation, wafer height, camera module, etc.



W axis rotary measuring

Can place work to the relative position of the current position (such as 90–180 degree direction to rotary product)

Product pressure plate device can be set(After the product is measured, the pressure plate is automatically raised and lowered)

Probe contact measuring

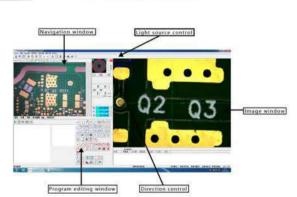
for hole or groove measuring

*can optional Extension rod according to measure requirement

Model	Stylus diameter	Stylus length	calibration block	accuracy
Renishaw MCPProbe	Φ1(standard) Φ2(standard) Φ3(optional)		50mm	Static accuracy: ±1.5 µm Measure accuracy: ±3 µm



- Measure element :length ,width , height , hole distance , spacing, pin distance, thickness, arc, diameter, radius ,groove, angle
- Support WIN7 7 WIN10 microsoft OS
- Can import CAD, and output DXF, EXCEL, WORD
- Automatic contour scanning, With reference and non-reference contour scanning function
- The software calculation function combined with the function formula directly performs complex calculations on the measurement results and automatically calculates the maximum and minimum values.
- Multiple data output methods: output all elements, output tolerance elements, output out-of-tolerance elements
- Geometric tolerance values such as position, concentricity, roundness, straightness, flatness, verticality, etc.
- Provide multiple levels of password protection to protect the integrity of the workpiece program and measurement data



Model	AM1200CNC	AM1500CNC	AM2000CNC	AM2500CNC	
Travel Range (mm)	1000x1200x200	1200x1500x200	1500x2000x200	1600x2500x200	
Dimension (mm)	1966x2400x1834	2234x2800x1834	2500x3200x1834	2600x3800x1834	
Weight (kg)	3100	4300	5500	6100	
Max load (kg)	30				
XYaxis accuracy (µm)	3.0+L/200				
z axis Accuracy	5.0+L/200(objective lens ration ≥3X)				
Repeatability (µ m)	≦3				
CCD	1.3M digital color camera (resolution 1920*1080)				
Fastest move speed (mm)	600mm/s				
Operation Mode	joystick+software				
Resolution	Germany "RSF" metal linear scale resolution 0.0005mm				
magnification	optic 0.7-4.5x ; vision 44.96-258.63X				
illumination	profile illumination system /surface illumination system /4 ring 8 segment LED cold light				
Motor	Japan Panasonic AC servo motor, position accuracy ≤0.002mm				
Guideway /Screw	Taiwan "Hiwin" precision linear guideway / Taiwan "TBI" Grinding ball screw				

Features:

- All machine adopt same software (SBK-IN-SPEC), simply operation
- Lifetime software upgrade without cost
- Hihg performance, high precision, fast measuring speed, simply operation, high cost performance.



Laser measurement

Quick point measurement, non-contact measurement of height and flatness

*Specifications: according to the use of a variety of laser models

model	Measuring range	Spot size	Resolution	Usage
Laser ZW-5000	10mm 20mm 30mm	φ9 Φ13 Φ18	0.25 µm	Rough surface or shiny products LED packaging, circuit board soldering, connector coplanarity, lens thickness.
Laser ZW-7000	10mm 20mm 30mm	ф 50 Ф 70 Ф 100	0.25 µ m	glass surface curvature, segmentation, wafer height, camera module, etc.



Technical Parameter:

Model	A300CNC	A400CNC	AG300CNC	AG400CNC
Travel range	300x200x200	400x300x200	300x200x200	400x300x200
Dimension	820x1104x1745	975x1313x1750	820x1104x1745	975x1313x1750
Machine weight	490	656	490	656
Max Load			30	
Camera		1.3M digital color came	ra (resolution 1920*1080)	
XY axis accuracy	2.5+	2.5+L/200		-L/200
Z axis accuracy	5.0+L/200(objective lens ration ≥ 3X)		2.0+L/200	
Repeatability	≦3		≦2	
Max Move speed	300	300mm/s		mm/s
Operate style	joystick	+software	joystick+software	
Resolution	0.00	05mm	0.0001mm	
Optical magnification	0.7-4	1.5X;	0.7-4.5X	
Vision magnification	44.96-	258.63X	2131238.71x(10X Metallographic objective lens	
Optical lens	Automatic zoom navigation lens tube		Auto zoom coaxial lens tube	
Illumination	LED cold light source, 256 level brightness programmable adjustable		Another coaxial surface light source	
Motor	Japan "Nidec" AC servo motor		Japanese "Panasonic" servo motor	
Guideway /screw	Taiwan "H	iwin" precision linear guide	way / Taiwan "TBI" Grindin	g ball screw

Measurement software:

- Measure element :length ,width , height , hole distance , spacing, pin distance, thickness, arc, diameter, radius ,groove, angle
- Support WIN7 7 WIN10 microsoft OS
- Can import CAD, and output DXF, EXCEL, WORD
- Automatic contour scanning, With reference and non-reference contour scanning function
- The software calculation function combined with the function formula directly performs complex calculations on the measurement results and automatically calculates the maximum and minimum values.
- Multiple data output methods: output all elements, output tolerance elements, output out-of-tolerance elements
- Geometric tolerance values such as position, concentricity, roundness, straightness, flatness, verticality, etc.
- Provide multiple levels of password protection to protect the integrity of the workpiece program and measurement data.



Probe contact measuring

for hole or groove measuring

*can optional Extension rod according to measure

model	Stylus diameter	Stylus length	calibration block	accuracy
Renishaw MCPprobe	Φ1 (standard) Φ2 (standard) Φ3 (optional)	20mm	50mm	Static accuracy: ± 1.5 µm Measure accuracy ± 3.0 µm



Model	AZ300CNC	AZ400CNC	AGF300CNC	AGF400CNC	
Travel range	300x200x200	400x300x200	300x200x200	500x400x200	
Dimension	820x1104x1745	975x1313x1750	820x1104x1745	1024x1181x1732	
Machine weight	490	656	490	656	
Max Load		3	0	**	
Camera		1.3M digital color camer	a (resolution 1920*1080)		
XY axis accuracy	1.84	+L/200	1.3-	L/200	
Z axis accuracy	3.5 + L / 200 (mor	3.5 + L / 200 (more than 3x objective)		2.0+L/200	
Repeatability		≦3		≦2	
Max Move speed	300	300mm/s		mm/s	
Operate style	joystick	x+software	joystick+software		
Resolution	"RSF"	0.0001mm	"RSF" 0.0001mm		
Optical magnification	0.7-	4.5X;	0.7-4.5X		
Vision magnification	44.96-	-258.63X	2131238.71x(10X Metallographic objective lens		
Optical lens	Automatic zoom r	navigation lens tube	Auto lens+Coaxial light		
Illumination	LED cold light source, 256 level	LED cold light source, 256 level brightness programmable adjustable		surface light source	
Guideway /screw	Japan "THK" preci	Japan "THK" precision linear guideway		sion linear guideway	
Screw		Taiwan "TBI" grinding ball screw			
Motor		Japan "Panasoni	ic" AC servomotor		

Features:

- All machine adopt same software (SBK-IN-SPEC), simply operation
- •Lifetime software upgrade without cost
- Hihg performance, high precision, fast measuring speed, simply operation, high cost performance.



Laser Measuring

None-contact measuring for height & flatness

*Specification :2 kinds of laser can optional according to usage

Model	Measuring range	Spot size	Resolution	Usage
Laser ZW-5000	10mm 20mm 30mm	ф9 Ф13 Ф18	0.25 µm	Rough surface or shiny products LED packaging, circuit board soldering
Laser ZW-7000	10mm 20mm 30mm	φ 50 Φ 70 Φ 100	0.25 µ m	connector coplanarity, lens thickness glass surface curvature, segmentation wafer height, camera module, etc.

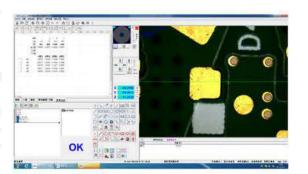


Technical Parameter:

Model	AC300CNC	AC400CNC	AF300CNC	AF400CNC	AF500CNC	
Travel range	300x200x200	400x300x200	300x200x150	400x300x150	500x400x150	
Dimension	697x787x1660	794x963x1660	697x787x1660	794x963x1660	900x1100x1700	
Machine weight	490	656	490	656	800	
Max Load			30			
Camera		1.3M digital cold	or camera (resolutio	n 1920*1080)		
XY axis accuracy	3.0+L	3.0+L/200		2.5+L/200		
Z axis accuracy	5.0+L/200(objective lens ration ≥ 3X)		5.0+L/2	5.0+L/200(objective lens ration ≥3X)		
Repeatability	≦3		≦3			
Max Move speed	200m	200mm/s		200mm/s		
Operate style	joystick(without lock ax	kis function)+software	joystick(w	joystick(with lock axis function)+software		
Resolution	0.001	mm		0.0005mm		
Optical magnification	0.7-4	1.5X		0.7-4.5X		
Vision magnification	44.96–2	58.63X	44.96-258.63X			
Optical lens	manual lens		Manual lens +coaxial light		ght	
Illumination	LED cold light source 256 level brightness programmable		Another coaxial surface light source		t source	
Motor	China "Hcfa" servo motor		Japan "Nidec" AC servo motor			
Guideway /screw		precision cross guide	eway/Taiwan "TBI" (Grinding ball screw		

Measurement software:

- Measure element :length ,width , height , hole distance , spacing, pin distance, thickness, arc, diameter, radius ,groove, angle
- Support WIN7 7 WIN10 microsoft OS
- Can import CAD, and output DXF, EXCEL, WORD
- Automatic contour scanning, With reference and non-reference contour scanning function
- The software calculation function combined with the function formula directly performs complex calculations on the measure ment results and automatically calculates the maximum and mini mum values.
- Multiple data output methods: output all elements, output tolerance elements, output out-of-tolerance elements
- Geometric tolerance values such as position, concentricity, roundness, straightness, flatness, verticality, etc.
- Provide multiple levels of password protection to protect the integrity of the workpiece program and measurement data.



Probe contact measuring

for hole or groove measuring

*can optional Extension rod according to measure requirement

Model	Stylus diameter	Stylus length	calibration block	accuracy
Renishaw MCPprobe	Φ1 (standard) Φ2 (standard) Φ3 (optional)		50mm	Static accuracy: ±1.5 µm Measure accuracy: ±3.0 µm



Model	AJ300CNC	AJ400CNC	AJ500CNC			
Travel range	300x200x150	400x300x150	500x400x150			
Dimension	820x1104x1745	975x1313x1750	900x1100x1700			
Machine weight	490	656	700			
Max Load	30					
Camera	1.3M digital color camera (re	solution 1920*1080)				
XY axis accuracy	2.0+L/200					
Z axis accuracy	3.0+L/200	3.0+L/200				
Repeatability	≦2.5					
Max Move speed	100mm/s	100mm/s				
Operate style	joystick(with lock axis function	n)+software				
Resolution	0.0001mm	0.0001mm				
Optical magnification	10X0.7-4.5X					
Vision magnification	2131238.71x(10X Metallog	graphic objective lens)				
Optical lens	Auto lens+Coaxial light					
Illumination	LED cold light source, 256 level brightness programmable, with coaxial meter light source					
Guideway /screw	precision cross guideway/Tai	precision cross guideway/Taiwan "TBI" Grinding ball screw				
Motor	Japan "Nidec" AC servo moto	or				

DX-CNC Series

Double Fields Full-Automatic Video Measuring Machine

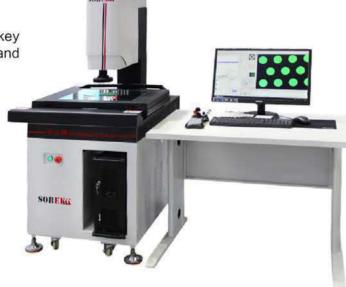
DX-CNC series adopt the most advance coaxial light double optic lens software of SBK-INSPEC ,with these function :Program automatic switching,Template measurement,Array shift measurement,Parallel measurement of multiple workpieces ,instant ,measurement of large field of view,realise instant and high accuracy measuring.

Features:

 Perfectly solve the limitation of traditional one-key instant measuring machine of fixed stroke and fixed magnification

• New design, high precision, high efficiency.





Parameter:

Model	DX400CNC	DX500CNC	DXF300CNC	DXF400CNC	DXF500CNC	
Travel range	400x300x200	400x300x200	300x200x200	400x300x200	500x400x200	
Dimension	794x963x1660	1024x1181x1732	697x787x1660	794x963x1660	1024x1181x1732	
Machine weight	537	800	400	537	800	
Max Load		25				
Camera	1.3M digital color camera		1.31	1.3M digital color camera		
Camera	1.3M digital color camera		5.01	5.0M digital color camera		
XY axis accuracy	(3.5+L/200) /(5.0+L/200)		(2.5	(2.5+L/200)/(6.0+L/200)		
Repeatability	≦4		≦5			
Max Move speed	200mm/s		200mm/s			
Operate style	joystick (lock axis)+software		joystic	joystick (lock axis)+software		
Resolution	0.0005mm		0.0005mm			
Optical magnification	0.2x/0.8x coaxial lens		0.1x/0.7x auto lens			
Vision magnification	14.34X/5	8.02X	44.96-258.63X/2.5X			
Field of view	32x24/8x	x6mm	9.1x6.85~1.40x1.06mm/64x48mm		48mm	
Optical lens	coaxial double Fixed	coaxial double Fixed magnification lens		coaxial auto lens /fixed magnification lens		
illumination	Single 5 rings LED Progra	Single 5 rings LED Programmable light source		double light Programmable light source		
Motor		Japan "Nidec" ac servo motor				
Guideway /screw		precision cross guid	deway/Taiwan TBI G	Fround ball screw		

ME-CNC Series

Full Automatic Tool-Makers Metallographic Microscope

Features:

- Auto focus+Manual pulse(Min travel 0.0001mm)
- Joystick with lock axis and speed can control
- Digital readout display, XYZ axis manual plus, emergency switch.











Parameter

Model	ME300CNC			
Travel range	300*300*150			
Dimension	610*850*1600			
Machine weight	220			
Max Load	20			
Camera	1.3M Pixel digital color CCD			
Data processor	DP-10 3 axis DF	RO, RS232 output		
XY axis accuracy	1.5+L/200			
Z axis accuracy	2.0+L/200			
Repeatability	≦2			
Max Move speed	100mm/s			
XY axis operate style	joystick +manual plus			
z axis operate style	auto focus+manual plus (min travel range 0.0001mm			
Optical magnification	optical 50x 100x 200x 500x vision 162.5x 314.9x 640.4x 1570.5x			
Resolution	0.0001mm			
	illumination	21v 150w Halogen light box illumination and reflection illumination		
	Transfer	5-hole objective lens turntable		
	Metallographic	Trinocular optical tube		
	Trinocular optical tube	CSIC optical system		
	Eyepiece	WF10X/22		
Metallographic objective lens		Infinite working distance flat field achromatic metallographic objective 5x-dic, Impl5x / 0.15 wd10.8mm		
	Bright & dark	Infinite working distance flat field achromatic metallographic objective 10x-dic, Impl10x / 0.3 wd10mm		
	Objective lens	Infinite working distance flat field achromatic metallographic objective 20x-dic, Impl20x / 0.45 wd4mm		
		Infinitely long working distance flat field semi apodized metallographic objective 50x, lmplfl50x / 0.55 wd7.8mm		
	Options	Optional Olympus metallographic Series 2, 100x metallographic objective		

S Series

Semi Automatic Video Measuring Machine

Features:

- SBK-INSPEC software , powerful function , easy to operate
- Free software upgrades for lifeFortune 500 corporate procurement



Probe contact measuring

for hole or groove measuring

Model	Stylus diameter	Stylus length	calibration block	accuracy
Renishaw MCPprobe	Φ1 (standard) Φ2 (standard) Φ3 (optional)		50mm	block gauge : ±1.5 µm Measure accuracy: ±3.0 µm

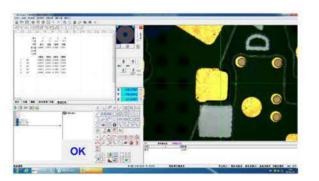


Parameter:

Model	E200	E300	E400	E500		
Travel range	300x200x200	300x200x200	400x300x200	500X400X200		
Dimension	697x787x1660	697x787x16600	794x963x1660	900X1100X1600		
Machine weight	160	230	300	500		
Max Load	30					
Camera	1.3M digital color camer	1.3M digital color camera (resolution 1920*1080)Any adjustable window				
XY axis accuracy	3.0+L/200	3.0+L/200				
Working distance	90					
Operate style	Manual					
Resolution	0.001mm					
Optical magnification	0.7-4.5X					
Vision magnification	44.96–258.63X					
Optical lens	0.7-4.5x continuous zoo	0.7-4.5x continuous zoom manual clamping barrel				
Contour light source	LED cold light source, 256 level brightness programmable adjustable (independent R & D patent product)					
Surface light source	LED cold light source 256 level brightness programmable					
Data control	Independent research a	nd development of program	mable data source integra	ted control		
Guideway /Polished rod	10. Y-axis precision crosse	ed roller guide z-axis Taiwan "S	hangyin" linear guide / import	ed toothless screw drive		

Features:

- SBK-INSPEC software , powerful function , easy to operate
- Free software upgrades for life.
- Fortune 500 corporate procurement.





Parameter:

Model	S300	S400	S500	S600	S800	
Travel range	300x200x200	400x300x200	500x400x200	600x500x200	800x600x200	
Dimension	697x787x1660	794x963x1660	900x1100x1600	1870x1000x1813	2270x1144x1813	
Machine weight	160	230	500	590	710	
Max Load			30			
Camera		1.3M digital color camera (resolution 1920*1080)				
XY axis accuracy		3.0+L/200				
Z axis accuracy		5.0 + L / 200 (objective lens above 3x)				
Working distance	90					
Operate style		X,Y-axis manual, Z-axis automatic				
Resolution	0.001mm					
Optical magnification	0.7-4.5X					
Vision magnification		44.96–258.63X				
Optical lens		0.7-4.5x continuous zoom manual clamping barrel				
Profile light source	LED	LED cold light source, 256 level brightness programmable adjustable				
Surface light source		LED cold light source 256 level brightness programmable				
Data control	Self developed	d program controlle	d semi-automatic m	otion control (Z-axis	servo motor)	
Guideway	Precision grade cross guid	deway / "Hiwin" linea	ar guideway "Hiw	in" linear guideway		

Microscope

Widely used in CNC milling cutters, taps, drills, grinding wheels, etc., convenient to measure the rake angle, back angle, R angle and other special tool angles of the cutting-tool

W-series Feature:

- Horizontal style, special for cutting-tools
- Offer Provide free lifetime software upgrades
- Profile light and the surface light move synchronously, clear imaging and accurate measurement



Model	W300
Dimension (mm)	300x200x100
External dimension (mm)	794x963x1660
Weight (kg)	230
XY axis accuracy (μm)	3.0+L/200
Repeatability (µm)	≦3





MC-series features

- Suitable for LED display, semiconductor packaging, welding observation, loop height and other fields
 With brightfield objective (5x,10x,20x,50x) suitable for
- normal use
- Z axis auto focus, with auto focus measuring height function
- With linear scale resolution 0.0001mm, Manual pulse fine adjustment 0.0003mm
- High resolutin 1.3M-500M pixel digital color CCD, suitable for different product measuring and observe

Parameter:

Model	MC300	MC400	MC500	
Travel range (mm)	300x200x150	400x300x150	500X400X200	
Dimension	900x700x1660	1000x800x1660	1100X1200X1600	
Weight (kg)	230	350	500	
XY axis accuracy (μm)	2.0+L/200			
Minimum display value	0.0001			
X / Y operation mode	Manual			
Z-axis operation mode	Auto focus + manual pulse (minimum travel range 0.0003)			
lighting	Illumination bottom 21v 150w Cold fiber transmission illumination, surface LED coaxial light.			

vision microscope / metallographic microscope

M100 auto focus vision microscope ,with these function light control ,continue zoom , auto focus, picture & video save.



Great improve working efficiency

no need eyepiece, display more suitable for observe ,auto focus & continue zoom . reduce time.



Find more details

Special HDR function edge enhance function ,picture more clearly ,vision magnifi-cation ration can reach 277X, 2M pixel digital CCD ,60 frames/s take picture



More convenient

with memory card, can save picture & video, can offer kinds of light according to product.



SK-606 Continue zoom Stereo microscope

A wide range of eyepieces and auxiliary objective lenses, and a wealth of accessories can meet the expansion of various functions, suitable for industrial assembly and inspection, teaching and basic research.



Observe tube	Binocular, trinocular and digital		
Eyepiece	Large field plan eyepiece WF10X/Φ22		
Working distance	115mm		
Zoon lens	0.8X-5X 6.3:1		
Stage insert circular plate	diameter 100mm glass plate		
CCD system	can optional CCD and measuring softwa		

SK-608T series continue zoom stereo microscope

advanced model, continue zoom ratio 1:8.3, focus range 0.6x-5x, suitable big range observe, large field, max can reach Φ76mm.

Observe tube	Trinocular, Tilt angle 30°	
Eyepiece	Large field plan eyepiece WF10X/Φ23	
Working distance	115mm	
Zoon lens	0.6X-5X	1: 8.3
Stage insert circular plate	Diameter 100mm glass plate	diameter 100mm white black boar
Camera measurement system	Can optional CCD and measu	ring software
Focusing stroke	105mm	

SK-820 Serial metallographic microscope

Check the structural integrity of the PCB poard, including copper thickness, inner and outer layer ring width

Application areas: Semiconductor inspection, FPD, circuit board packaging, circuit substrates, castings and other industry research system metallographic microscopes, covering bright field, dark field, polarized light and other methods.

Upright observation head	Hinged trinocular observation head, 30° tilt, interpupillary distance 48–75mm		
Max height of sample	50mm		
Stage	No hole rectangular double deck movable platform 186x138mm / 74mmx50mm		
	$10X/0.25/\infty/-(BF/DF)$ (Bright and dark field sharing)	WD 10.0mm	
	$20X/0.4/\infty/0(BF/DF)$ (Bright and dark field sharing)	WD 4.30mm	
Infinite flat field	2.5X/0.08/∞/-(BF) (Mingchang)	WD 11.7mm	
Achromatic objective	5X/0.12/∞/-(BF/DF) (Bright and dark field sharing)	WD 12mm	
	$40X/0.6/\infty/0(BF/DF)$ (Bright and dark field sharing)	WD 2.90mm	
	50X/0.75/∞/0(BF/DF) (Bright and dark field sharing)	WD 0.32mm	
ä	100X/0.8/∞/0(BF/DF) (Bright and dark field sharing)	WD 2mm	
Eyepiece	(Large field eyepiece EW10X/22m)	Tube Φ30	
Focus system	Coaxial coarse and fine focusing, fine adjustment scale value 1um, coarse and tight adjustment, with limit device, moving range 30mm.		
Camera measure system	can connect CCD and measuring software system(measuring accuracy 2–5um		



SK-5000 Metallographic microscope

high performance optics system , easy operate, new technology , perfect function , stable performance, realize DIC observe.



Inverted viewing head	Hinged trinocular observation head, 30° tilt, interpupillary distance 48–75mm		
Max sample height	50mm		
Stage	Rectangular double deck movable platform 226x178mm, moving range 40mmx40mm		
	5X/0.12/∞/0(BF/DF) LWD 10mm	WD 10.0mm
Infinity plan	10X/0.25/∞/0(BF/DF) LWD 10mm		WD 4.30mm
Infinity plan,	20X/0.4/∞/0(BF/DF)LWD 5mm		WD 11.7mm
Achromatic objective	50X/0.75/∞/0(BF/DF) LWD 1.3mm		WD 12mm
	100X/0.9/∞/0(BF/DF)LWD 0.7mm		WD 2.90mm
Large field eyepiece	WF10X/22 WF10X/20, (Cruciform eyepied		(Cruciform eyepiece)
Focus system	Coaxial coarse and fine focusing, fine adjustment scale value 2um, coarse and tight adjustment, with limit device, moving range up 1mm,down 7mm		
Camera measure system	can connect CCD an		re system

BX Series

3D Line Laser Flatness Measuring Machine

Model	BX500	BX500		
Travel range	500X400mm	500X400mm		
Measure function	Height difference, fla	Height difference, flatness		
	Cell phone	Height difference , flatness		
Application	LED	Height difference , flatness		
	New energy battery	Height difference , flatness		
	Connector	Height difference , flatness		
laser system	3D line laser			
Measuring range	30-200mm(can option	onal)		
Repeatability	0.003mm	0.003mm		
Test speed	2s-3s/PC	2s-3s/PC		



Cellphone industry

5G communication module shell, 90X camera mount, CG screen, mobile phone screen cover, TP frame, LCD compartment, mobile phone back cover camera, etc. flatness and level difference.



LED industry

LED filament height difference, PCBA appearance inspection, component circuit board measurement height difference and flatness, etc.



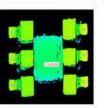
Battery industry

Battery welding quality inspection, battery plane recess extraction, battery corner recess extraction, pole recess extraction, shrapnel height difference detection, etc.



connector industry

Pin coplanarity, pin flatness, pin height difference, etc.



SBK-INSPEC Software

Self-developed professional measurement software

The SBK-INSPEC measurement software provides professional software support and authoritative measurement reports for the measurement field of precision manufacturing industry. SBK has been recognized by a lot of well-known enterprises around the world.





Software features (No additional cost)

Fast navigation—Realize fast positing the measuring location while accurate measurement 30*20mm wide-field navigation lens enables fast and accurate positioning, which improves the efficiency of programming and measurement process by two times

Full scene HD map photograph—Realize the scanning of all scene pictures of working parts and the saving of HD pictures. Quickly photograph, measure and label products. It will take pictures first and then measure the parts, and find the measuring position quickly.

Automatic contour scanning—The rapid contour scan can be imported into CAD for drawing comparison, and the dimensions can be marked directly after scanning. Manually set the initial and final points of contour extraction, and the software will automatically control the platform to extract edge points along the fixed direction until the work is completed.

One-click measurement—Products can be placed arbitrarily and measured directly without establishing coordinate system. After establishing the template of the products, the products can be measured by putting them into the field of view of the machine. No need to set up coordinates or place the product horizontally, just run the program to measure.

Significantly reduce measurement time and cost in production

■ SBK-INSPEC ■ The software uses the click mode to establish the measurement program, and the user controls the movement of the measuring platform with the mouse or joystick to complete the measurement and program editing. Users can choose to customize printing, saving and data transfer.

SBK-INSPEC | Powerful and intuitive automatic video measurement software

The full range of products use the same software, program sharing, simple operation, aggregation so convenient functions, this is the industry's high level of measurement software.

SBK-INSPEC | Lifetime free upgrade

A one-time purchase lifetime free upgrade.

SBK-INSPEC for Windows

SBK-INSPEC | Enter CAD documents and convert them into executable programs

SBK-INSPEC
 The software supports the import of file formats such as DXF,DRL,Gerber, which is convenient for users to set up quickly.

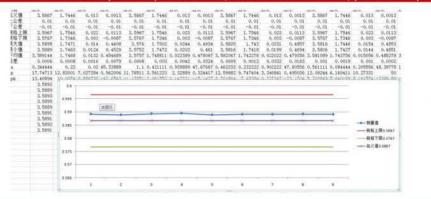
SBK-INSPEC | Automatic contour scan, reverse scan, automatic shape recognition and direct measurement

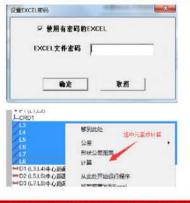
Set the starting point and the machine will automatically scan the entire outline. The scanned point cloud can directly construct points, arcs, straight lines and so on in the software.

SBK-INSPEC | Automatic lighting function, light source rotation and recording function

■ SBK-INSPEC ■ It will adjust the brightness of the light source according to the definition of the image, and select the optimal measurement light source brightness through intelligent identification, which is convenient for users to adjust quickly. After the software is turned off, the restart will automatically adjust to the brightness of the light source before the last software is turned off.

SBK-INSPEC Report output function, calculation function, password protection





SBK-INSPEC J Geometric tolerance detection, including the reference contour and no reference contour calculation

SBK-INSPEC I Geometric tolerances such as position, concentricity, roundness, straightness, contour, flatness and perpendicularity are included. Profilometry can be measured with and without reference profilometry. There are two evaluation standards, ISO and GD. There are three methods for measuring datum profilometry: comparison of measuring point cloud with standard drawing, comparison of measuring point cloud with standard point cloud, and comparison of measuring point position degree with standard point.





|6|

Comprehensive measurement solutions 360°

Laser + Video measuring machine



Mobile phone panel

With touch screen mobile phone and the popularity of electronic products such as tablets, 5 g network development, China's average improvement of living standards, labor costs increased, manufacturers are looking for a variety of effective means of technology upgrading and methods, with the latest technology and the best quality to win in the fierce market competition as a mobile phone touch screen mobile phone panel, one of the most important part of the plane dimension and flat degree of geometrical quantity is higher and higher demands are proposed such as reproduction in manufacturing process, in order to ensure the qualified rate of relative size, must ensure that measuring equipment running speed, stable and accurate measurement data.

User's detection requirements

Flatness, R-angle, geometric dimensioning, Touch controlled conduction particles

Measuring the difficulty

- 1. The traditional optical focusing mode is used to measure flatness, which leads to slow speed, poor accuracy and poor repeatability.
- 2. The circuits in the touch screen are so tiny that they are difficult to measure with a normal lens
- 3. Products often need to be all tested, measurement efficiency is not enough.

Solutions

- 1. The automatic video measuring machine is equipped with high-precision point laser to measure flatness, with the precision up to 0.0003mm, and the measuring speed is 5 times that of the image measuring instrument
- is 5 times that of the image measuring instrument
 2. Provide laser scanning point cloud for flatness calculation, high point, low point and average point to achieve good repeatability accuracy and intelligent extraction
- 3. It can be equipped with a metallographic lens, high magnification of conductive particles, image distortion is not distorted, height difference measurement can be up to 0.0002mm
- 4. Can be multi product program batch measurement, and can directly output NG or OK



Large size, high precision is no longer a problem



LCD panel, PCB, back light panel, LCD display frame

With LCDS and OLED TVS dominating the living room, the OLED panel industry offers more opportunities for many panel makers, with brighter, thinner, firmer and sharper images.

Measuring the difficulty

- 1.Large size, high precision, small stroke video measuring machine can not meet the demand
- 2. The LCD panel size is large but the conductive particle size is small, so it is not easy to measure and observe
- 3. Many sizes need to be magnified hundreds of times to be observed without any slight shaking
- 4. Products with partial softness

Solutions

- 1. The maximum trip of the product is 2500*1800mm, it can meet all kinds of requirements
- 2. Shockproof device can be installed to solve the problem of shaking under high magnification
- 3.It can be equipped with a metallographic lens to measure the conductive particles
- 4. Glass pressing device can be installed to prevent the product from warping

Insulation material&Thin sheet of battery

With the continuous development of national science and technology, the battery industry has developed rapidly, and insulation materials have penetrated into all fields of electrical appliances. For example, due to the design and manufacturing accuracy of aluminum foil, cloth and other products, there may be too thin thickness, excessive peripheral burr, too narrow width, so the requirements for their measurement accuracy are increasingly high.

Testing requirements

Observe and measure burrs

Measuring the difficulty

- 1.Different product specifications
- 2.180° both sides are measured and required to measure speed

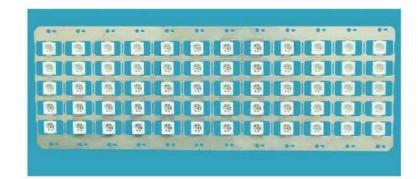
Solutions

- 1. Equipped with professional wafer clamp with motor drive
- 2. The software adds W axis to realize 180° any Angle measurement

18 19■

Case Study





Connector

Connectors are widely used in aerospace, national defense, automobile industry, computer industry, etc., as the exchange parts to transmit current or signal connection, the technical requirements of connectors are getting higher and higher

LED bracket

LED lighting started in the 1970s, and a relatively complete industrial chain has been formed in the production of extension chips and the manufacturing and packaging of LED chips. At present, SMD stent is the most widely used stent in the manufacturing industry, and the quality requirements of products are getting higher and higher.

Testing requirements

Array measurement, contour size and measurement speed fast.

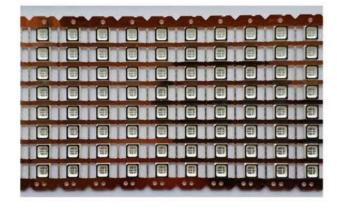
Measuring the difficulty

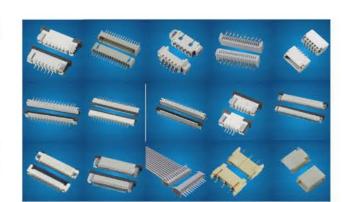
- 1. The connecting hole or needle is usually in array, so it is inconvenient to extract and measure one by one
- 2. The surface image of solid color product is not clear, and it is difficult to grasp with the instrument
- 3. The product may be measured inside a deep hole and cannot be observed with ordinary light sources

Solutions

1.SOBEKK products can be equipped with coaxial light source and customized high depth of field optical lens.
2.SOBEKK Software with matrix, ring array, mirror, such as array, programming simple, easy to operate.

Multi-function light source system can be installed to achieve arbitrary Angle lighting.

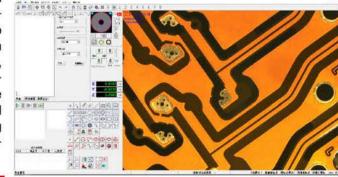








As the modern manufacturing industry puts forward higher and higher requirements for manufacturing efficiency and parts quality, it is necessary to realize the measurement and verification of parts in a very short time. After years of research and testing, SOBEKK has launched a dual-field coaxial concentric mobile measuring instrument, which can meet the requirements of high efficiency detection of users and also solve the problem of instant video measuring machines that cannot measure large size, high precision and surface size.



Testing requirements

Multi - part measurement at the same time, high speed and precision.

Measuring the difficulty

- 1.Ordinary video measuring machines measure short dimensions
- 2.Under high magnification, instant video measuring machine is impossible to measure the fine

Solutions

- 1.SOBEKK's newly developed large diameter dual lens can capture the overall image of a part and measure the position of the whole part at one time. Meanwhile, it is equipped with continuous variable hd lens, which can measure the part with high precision.
- Equipped with array translation function, it can perform array programming measurement and template matching measurement of product double field.
- 3.Realize flash measurement of small size parts such as small parts, gears, springs, screws and magnetic materials, and can also flash measurement of external dimensions of circuit board connectors and other products, and high-precision measurement of micro dimensions.

