

# Inspection Probe

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- *by Silvercnc Tech*

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# Company Profile

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**Silvercnc tech founded in 2013, international trade officially started in 2019. We focus on CNC industry, providing the most suitable CNC and related products at the best price for our customers. Our products include CNC、rotary table、probe、stylus、tool setter、rotary vise、tool maker vise、hand wheel and other machinery accessories.**

**Our Mission:We hope to help customers solve problems, help our customers find the most appropriate products, and help our customers create value**

**Our Values:Honesty and win win**

**We believe that honesty is very important. Honesty can make us trust each other more. We also pay attention to win-win, Only win-win can make our relationship more lasting**

# Innovating and Production

## R & D development strategy:

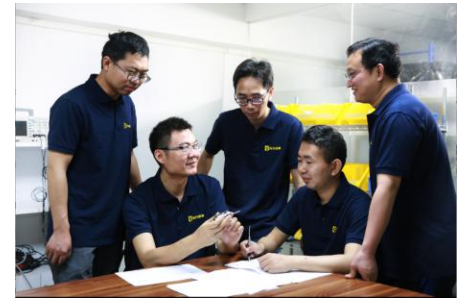
R & D expenses invest more than 10% of total sales, and increase year by year

## R & D:

- The R & D team more than 10 people.
- Includes system designers, structural designers, electrical designers, and software engineers.
- All bachelor degree or above, average working experience more than 8 years

## Production:

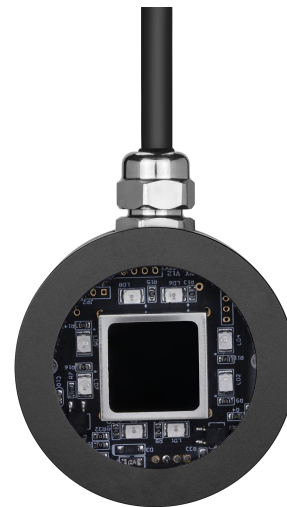
- The company's factory is located in Changan Town, Dongguan City
- Production team more than 15 people. All high school graduated.
- 5 Star level 5s production line
- UF ERP Management System implemented
- Quality control process is carried out from incoming to shipment.
- Implemented quality traceability system, core materials and information can be traced back



# Products---CNC probes



SOMP40 Optical probe



Optical receiver

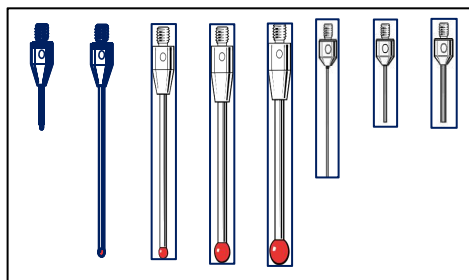


SLP25 Wired probe

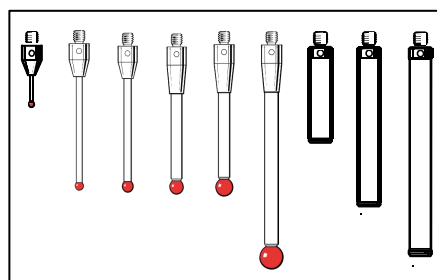
# probe specifitation

<b>Model</b>	SOMP40	
<b>Unidirectional repeatability</b> Use standard 50mm probe at 600mm/min speed	1um (2 $\sigma$ )	
<b>Sense directions</b>	$\pm X, \pm Y, +Z$	
<b>Stylus trigger force</b> Use standard 50mm probe	XY plane 0.4 - 0.8N	Z direction 4.0N
<b>Trigger protection trip</b>	XY plane +/-15°	Z direction 6.35mm
<b>Signal transmission method</b>	Optical transmission	
<b>Operating range</b>	5m	
<b>Trigger life</b>	>10 Million times	
<b>Transmission angle</b>	360 ° along the probe axis	
<b>Transmission on/off style</b>	smart switch	
<b>Weight without shank (including batteries)</b>	280g	
<b>type of battery</b>	2x lithium battery 14250	
<b>battery life</b>	Standby	>600 days
	5% use	>540 days
	continue use	>360 days
<b>Sealing</b>	IP68	
<b>Operating temperature</b>	0-60°C	

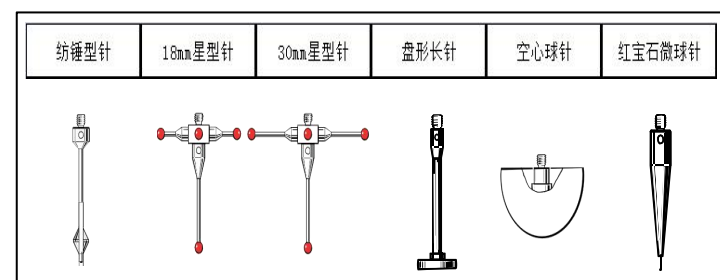
# Products---CNC stylus



Tungsten steel series styli



Ceramic series styli



Shaped series styli

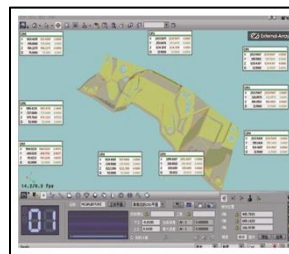
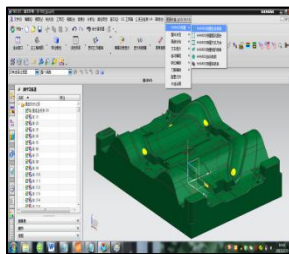
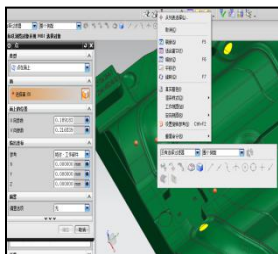
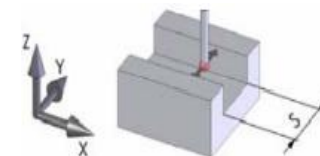
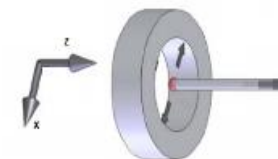
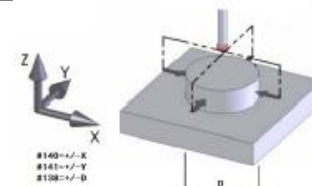
# Products---Software

## Macro program

- 1、 On machine measurement macro package for machining center and highlight machine workpiece measurement
- 2、 On machine measurement macro package for Lathe and grinder workpiece measurement
- 3、 On machine measurement macro package for machining center tool length measurement
- 4、 On machine measurement macro package for machining center tool length and diameter measurement
- 5、 On machine measurement macro package for lathe tool measurement

## 3D measurement software

- 1、 UG plug in software for 3-axis (Or 3-axis + 2 axis) 3D measurement
- 2、 Independent software for 3-axis (Or 3-axis + 2 axis) 3D measurement
- 3、 Independent software for 5-axis 3D measurement (In development)



测量报告

模具编号: mode12 填表人: 日期: 9月5日

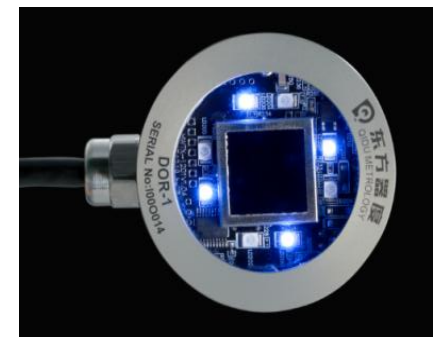
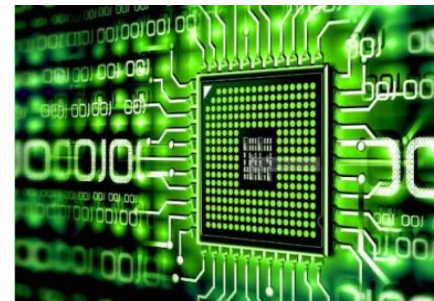
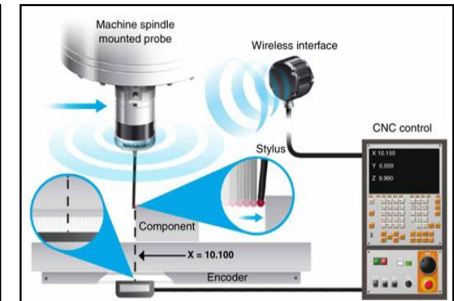
序号	理论X值	理论Y值	理论Z值	实际X值	实际Y值	实际Z值	X误差	Y误差	Z误差	总误差
1	-52.974	-47.898	0	11.172	-47.628	-9.261	-47.702	-43.270	-9.261	-43.270
2	-27.394	4.184	0	1.172	4.628	9.261	-26.352	-0.444	9.261	-26.352
3	14.302	29.0	0	6.738	2.398	-1.647	-10.474	-26.612	-1.647	-26.612
4	52.045	-54.442	-2.325	C.738	0.598	1.647	-61.257	-54.045	-0.878	-41.257
5	-1.955	-62.059	0	4.629	11.172	-9.260	-2.674	-36.887	-9.260	-36.887
6										
7										
8										
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10										
11										

# Core technologies ----- Precision and electrical

1、6-point trigger structure, ultra-rigid design, ultra-high-precision AAM micron assembly. At the same time, it aSOMPTs real-time wake-up, accurate transmission electrical design, signal running error  $<0.2\mu\text{m}$ , comprehensive measurement accuracy of the probe  $<1\mu\text{m}$

2、 Ultra-low power consumption, intelligent wake-up technology. Battery replacement cycle is **> one year**. Far ahead in the probe industry

3、 **Dual infrared channels**, remote control operation. Completely solves the problem of mutual interference often occurring in the application process of infrared probes





# Core technologies -----Stability

## 1、Very low dropout frequency

Drop out frequency less than 1/100,000, leading in the industry

## 2、Design with trigger life over 10 million times

The 10 million trigger life is set as the key index in the design, and the structure, material selection and process design are fully implemented in accordance with the trigger life standard of over 10 million times.

## 3、IP68 protection level. Authoritative third party verification

Probe design and verification are performed in accordance with 10 meters of water pressure which exceeding the IP68 standard

## 4、Low defective rate after delivery to customer

Total <0.5% defective rate during warranty period



Test Report/检测报告	
Name of sample 样品名称	1.20C Coordinate Measuring Machine 坐标测量机
Client 客户	Shanghai Silvercnc Technology Co., Ltd. 上海银肯数控技术有限公司
Address of client 客户地址	Building No. 3, Songjiang New Industrial Zone 上海市松江区新浜镇工业园区3号厂房
Inspection 检测项目	Coordinate Measuring Machine CMM 坐标测量机
Inspection 检测日期	2019-02-28
Testing Laboratory 检测机构	Shanghai Institute of Metrology (SIM) Calibration Testing Laboratory Ltd. 上海市计量测试技术研究院校准检测实验室有限公司
Address 地址	8 Anren Road, Songjiang District, Shanghai (Shanghai High-tech Industrial Park, Wangang Road, Huashan, Songjiang District, Shanghai) 上海市松江区安仁路8号(上海华岗路、华盛路、华山路、华平路、华安路、华通路、华达路、华翔路、华翔路、华翔路、华翔路)
Test results 检测结果	CONFORMING
Test equipment 检测设备	MC 8000 1000AT 1000AT 2013
Range of sample 样品范围	-
Sample characteristics and condition 样品特征及状况	The sample was in good condition upon receipt.
Test method 检测方法	International data link report reference
Ambient temperature 环境温度	20.0°C
Test by/测试人	Yan Jiang
Check by/审核人	Shu Yang
Approved by/批准人	Anna Liu
Remarks 备注	

# customers

**FOXCONN**  
富士康科技集团



**JABIL**

捷普綠點  
JABIL GREEN POINT

**Chunxing** 苏州春兴精工股份有限公司  
Suzhou Chunxing Precision Mechanical Co., Ltd.



**mindray** 迈瑞



上海大众汽车  
SHANGHAI VOLKSWAGEN

- Silvercnc Tech and Foxconn are in a deep partnership. We have sold thousands of probes to Foxconn
- Silvercnc Tech is Huawei designated probe purchase brand