

# Inspection Probe

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*- by Silver CNC*



# Company Profile

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**Silver CNC 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:

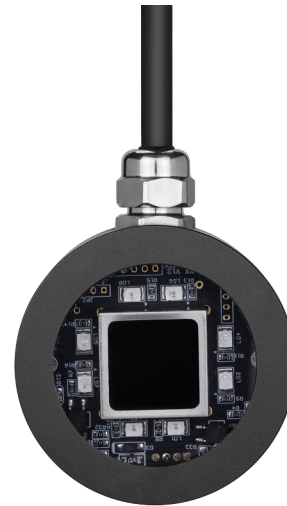
- The company's factory is located in Changan Town, Dongguan City
- Production team more than 15 people. All high school graduated.
- 5 Star level 5s production line
- UF ERP Management System implemented
- Quality control process is carried out from incoming to shipment.
- Implemented quality traceability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



# Products---CNC probes



SOMP40 Optical probe



Optical receiver

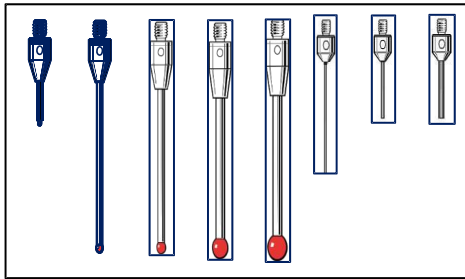


SLP25 Wired probe

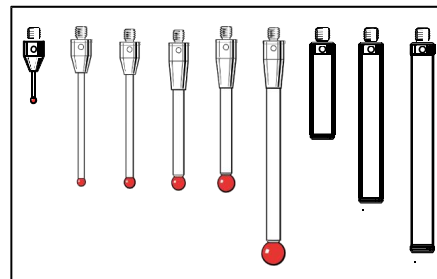
# Probe specifitation

<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	

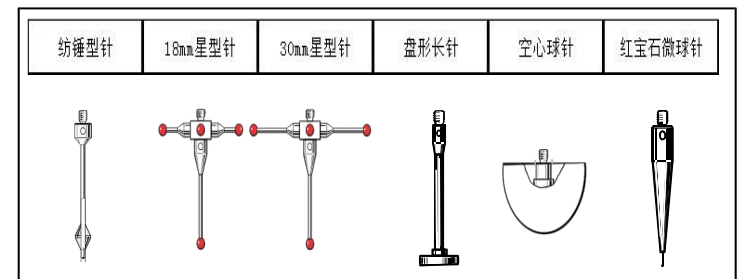
# Products---CNC stylus



Tungsten steel series styli



Ceramic series styli



Shaped series styli

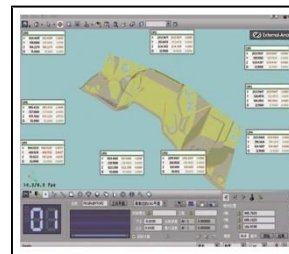
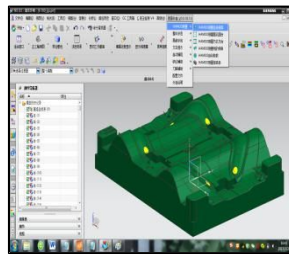
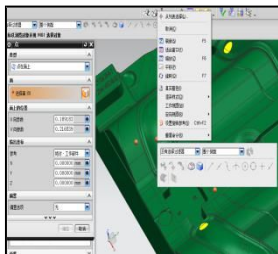
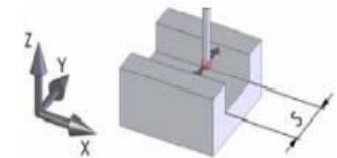
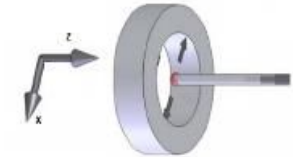
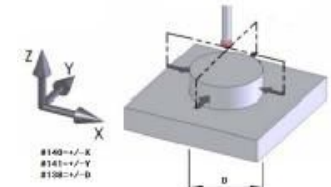
# Products---Software

## 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)



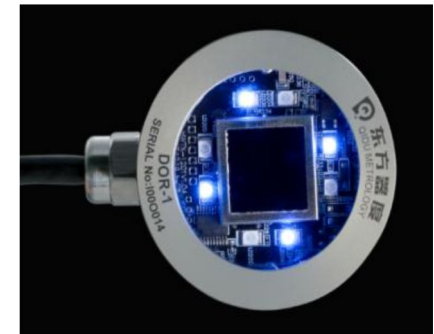
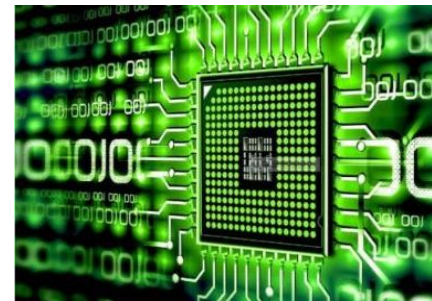
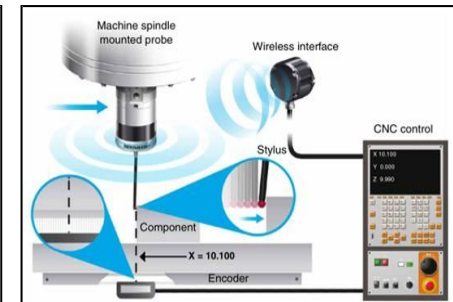
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# Core technologies ----- Precision and electrical

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

[illegible]

# Customers



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