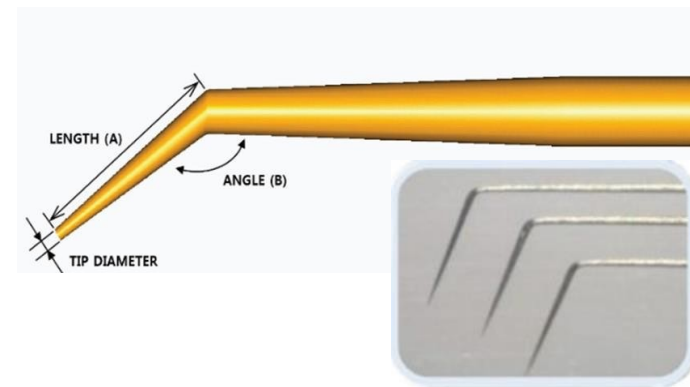
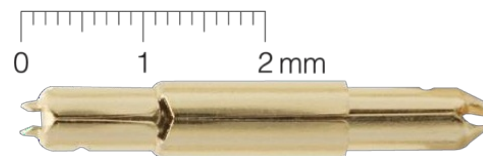
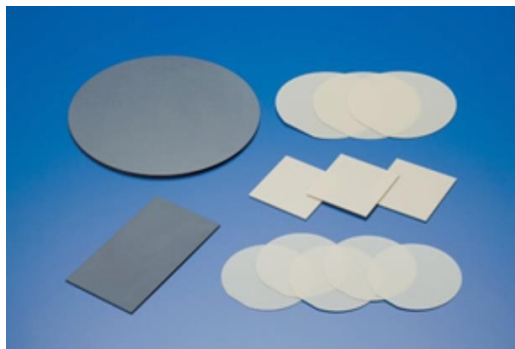
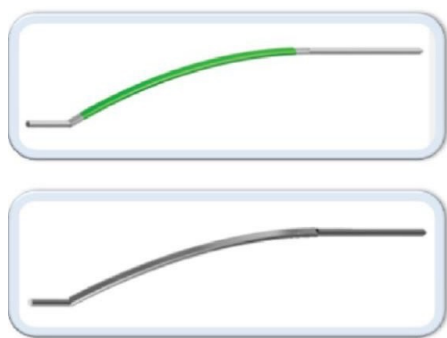


Product information for Semiconductor and PCB inspection Probes and Materials



We can provide the products, equipment, and processing services you want and need.

Wire Pin

Description

Material: Rew, W, Be-Cu, P7, Ag-Pd-Cu, Rh, others.

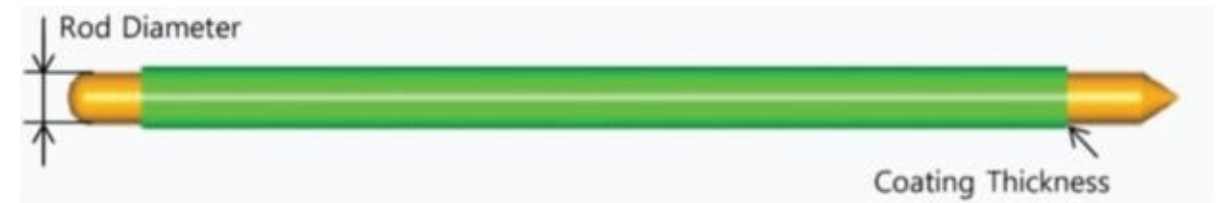
Standard overall length: 3mm ~ 30mm.

Outer diameter: 20 μ m ~ 110 μ m

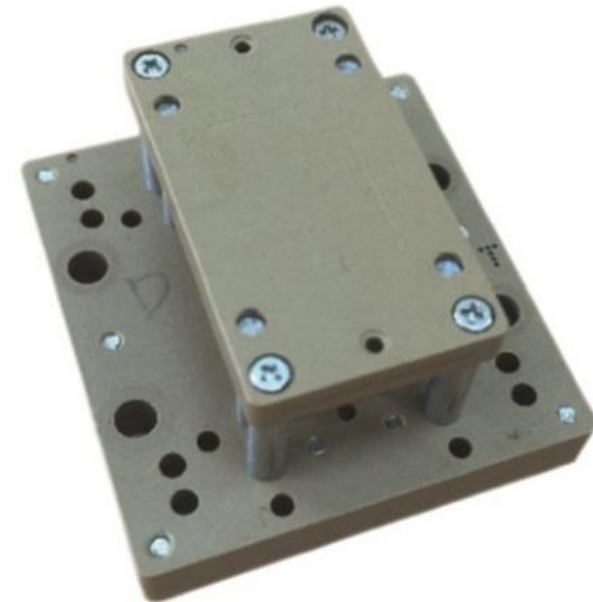
Tip shape: Flat tip, Sharp tip, Radius tip.

Plating: Ni + Au

Coating material: Acryl etc.



Example of use: precision inspection jigs.



Bending Needle

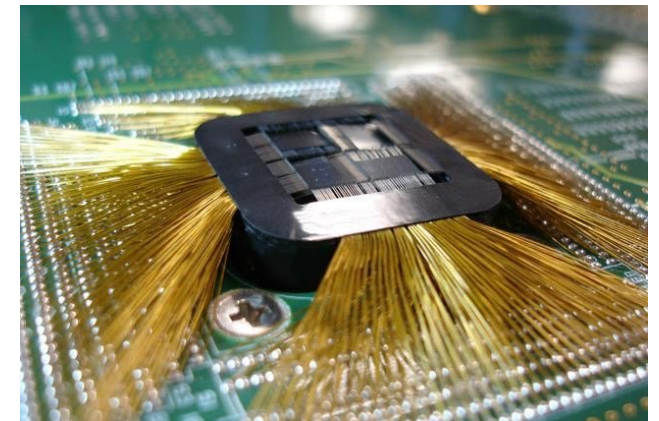
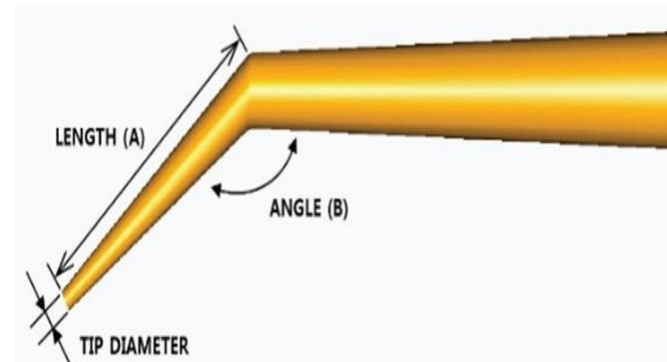
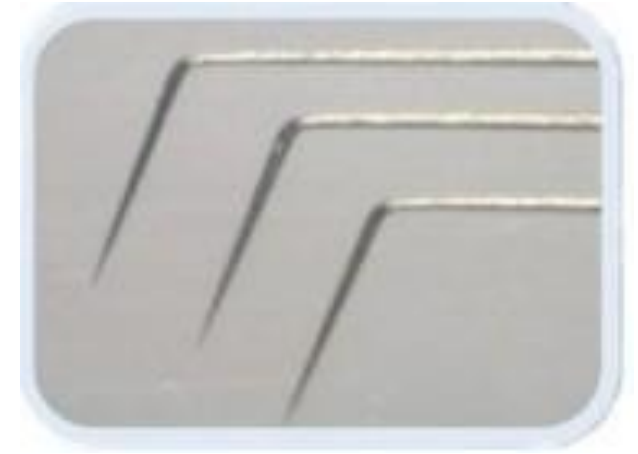
Description

Application: Cantilever Probe Card, etc.

Material: Rew, W, BeCu, P7, Ag-Pd-Cu, Pt, others.

Standard Dia: 50 μ m min.

Tip shape: Flat tip, Sharp tip.



Cobra Probe

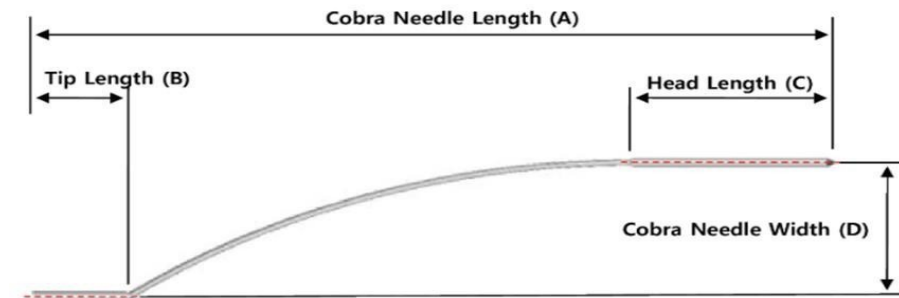
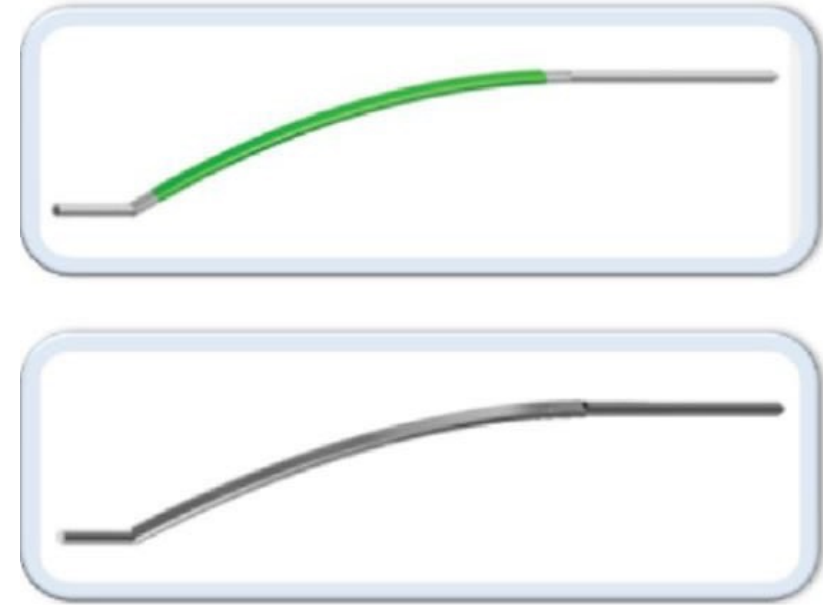
Description

Application: Cobra Probe Card.

Material: P7, Ag-Pd-Cu, Rh, others.

Standard: 2mil ~ 4mil. (full custom-made)

Tip shape: Flat tip, Sharp tip.



MEMS Probe

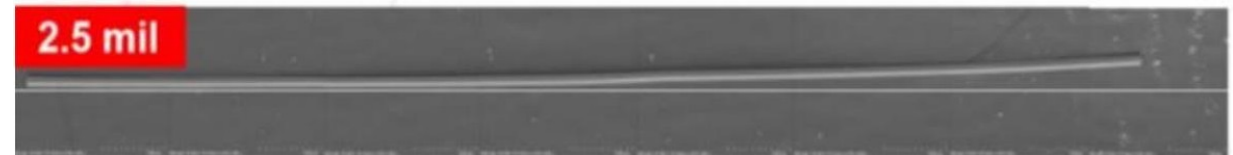
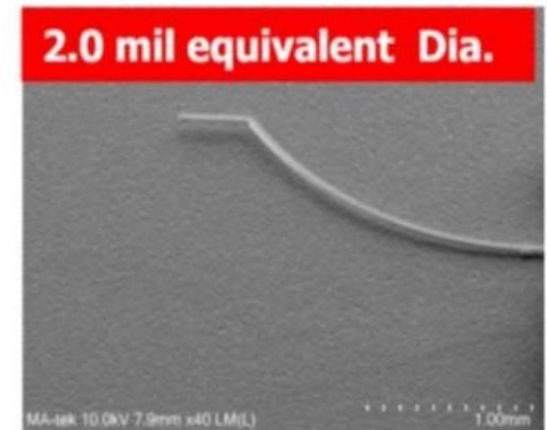
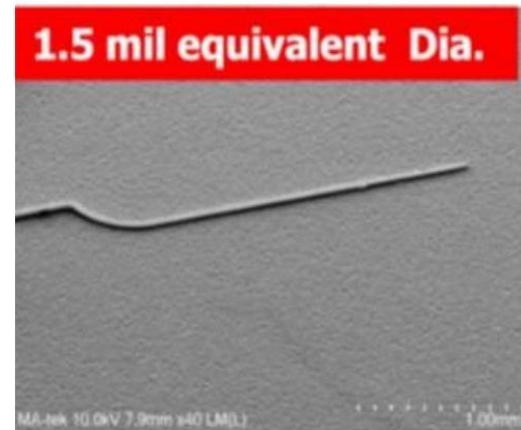
Description

Application: MEMS Probe Card (For Cu pillar bump).

Standard: 2mil ~ 3mil. (full custom-made)

Type: Cobra type, Buckling Beam type.

Current Carrying Capacity: approx. 800mA



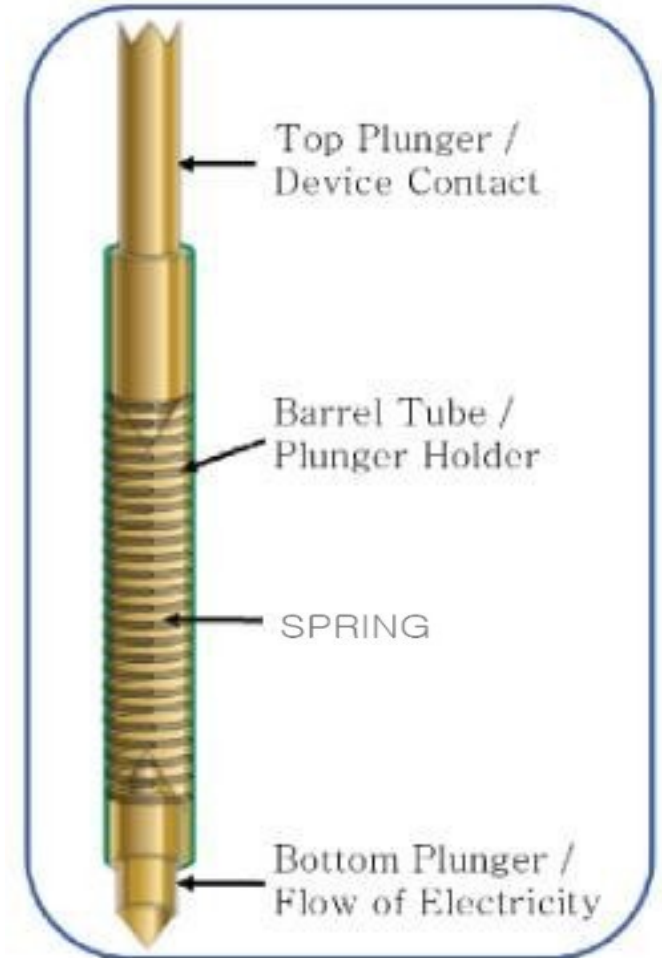
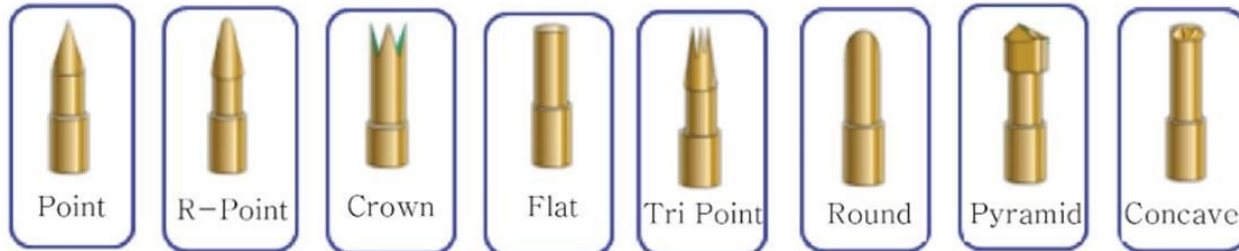
POGO Pin

Description

Custom-made

It mainly provides components. Tubes, Plungers, etc...

Plunger Shape Type



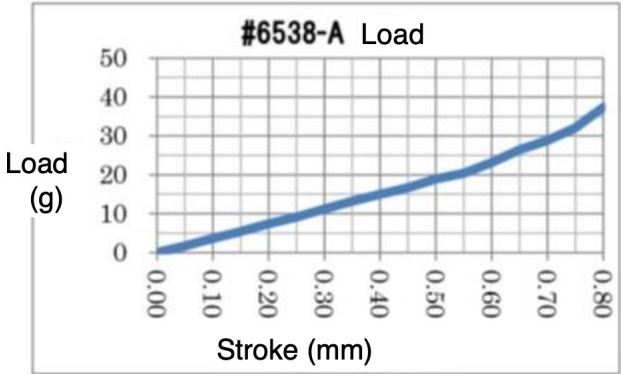
One body Pin



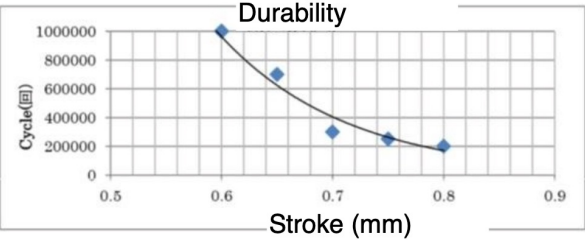
Description

Full stroke	0.8mm
Reference stroke	0.6mm
Load	23g / 0.6mm
Resistance value	28mΩ / 0.6mm
Maximum current	3A
Durability	1 million times
Material	Beryllium Copper
Surface treatment	Gold plating
Operating temp.	-55 ~150 °C
High Frequency properties @ -1db	23GHz
Reflectance properties @ -15db	12.6GHz

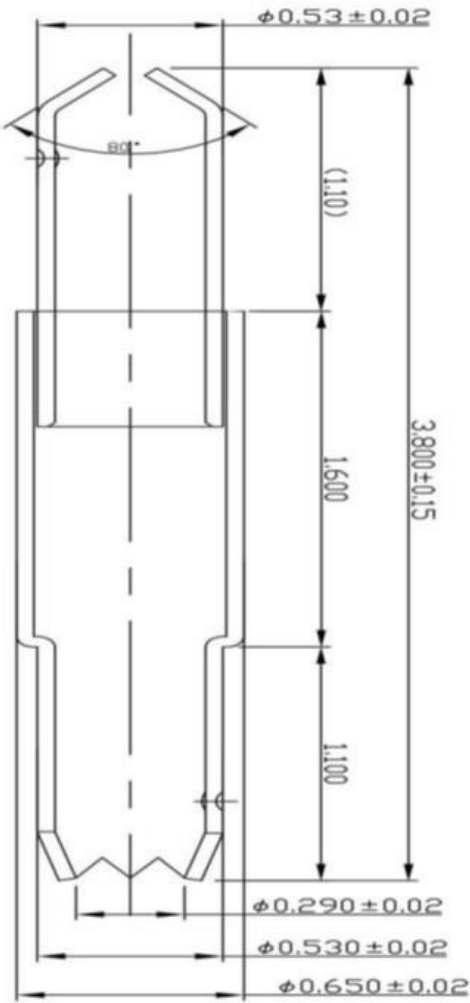
Load and stroke



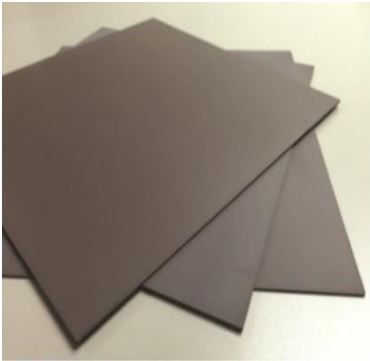
Stroke(mm)	Test stroke(mm)	Pre stroke(mm)	Durability
0.80	0.60	0.20	300,000
0.70	0.60	0.10	800,000
0.60	0.50	0.10	1,000,000



Pin Outer Diameter



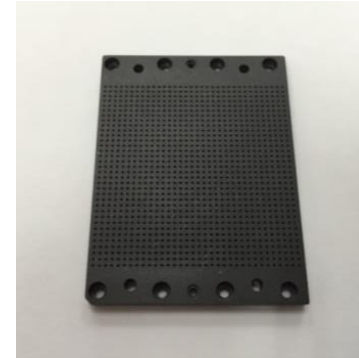
Materials



TA3000



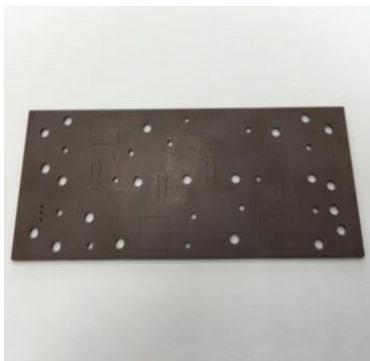
PPS



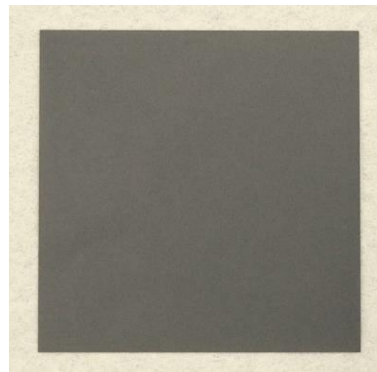
Unirate



Macerite series



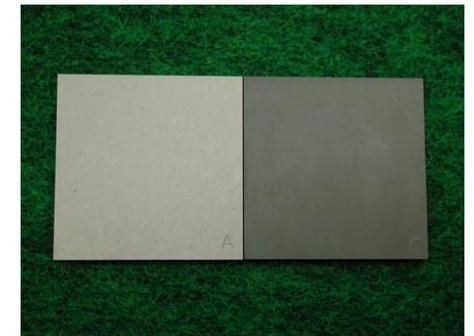
Tellurite



Silicon Nitride



Smika Super

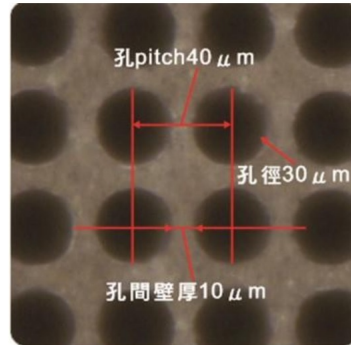


Photoveel series

Processing related

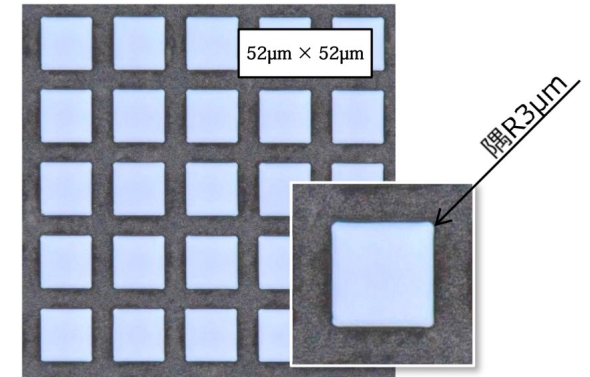
[Drilled products].

Supply of processed resin and ceramics products.
(Next page)



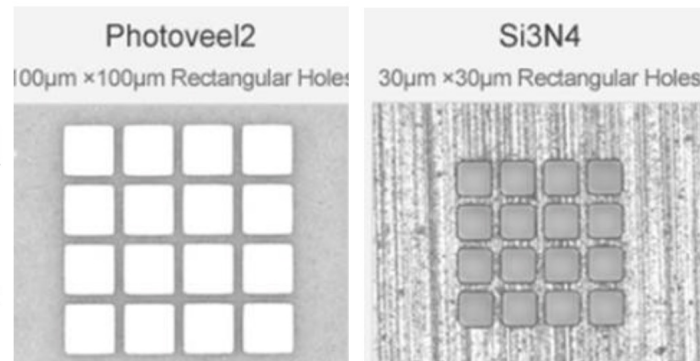
[Laser processed Products]

Realisation of a smaller radius of corner R.



[Laser processed Products]

Supply of machined products such as round holes, square holes, etc.



Processing services using the latest laser drilling machines.

TA3000 (Can be processed and sold.)

Description

Workability: Virtually burr-free.

Size: 150mm x 150mm, 250mm x 250mm.

Plate standard: 0.8mm ~ 3.0mm

Accuracy of grinding thickness (flatness): $\pm 0.01\text{mm}$, $+0/-0.01\text{mm}$, $+0/-0.02\text{mm}$.



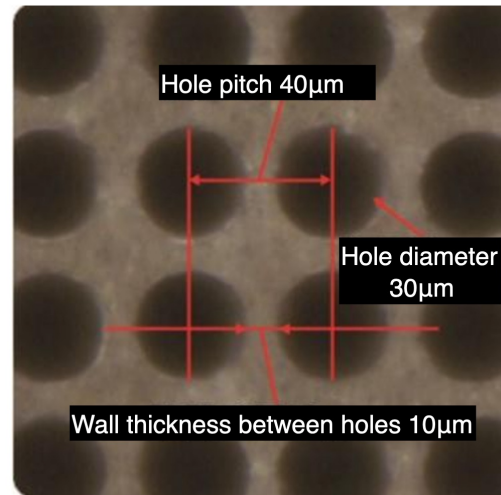
Processing results:

Thickness 0.8mm.

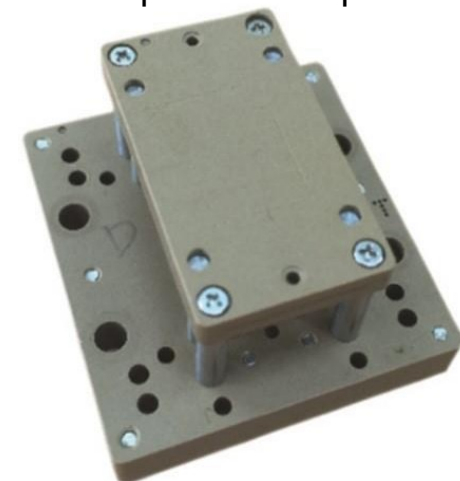
Min. Hole diameter $30\mu\text{m}$.

Min. hole pitch $45\mu\text{m}$.

Min. wall thickness $10\mu\text{m}$.



Example of use: precision inspection jigs.



Fine Micro Drill



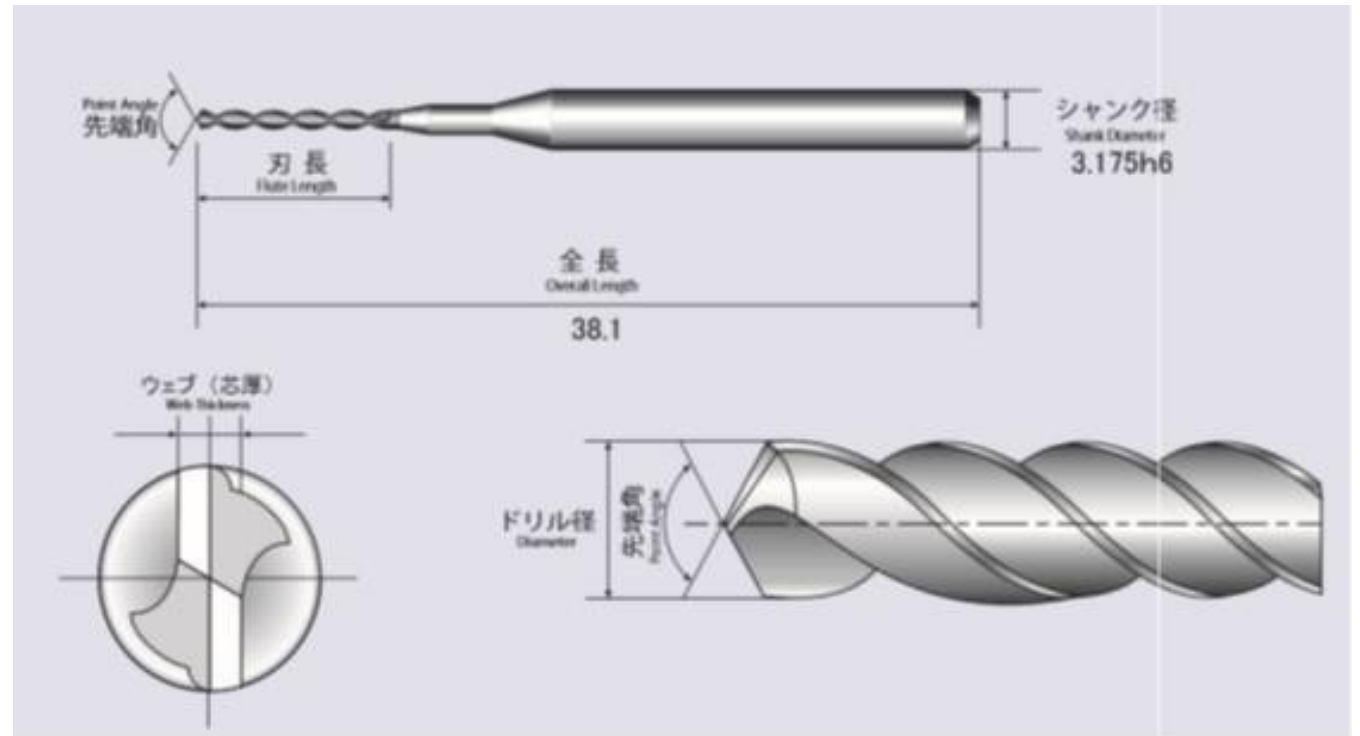
Description

Diameter: $\Phi 20\mu\text{m} \sim \Phi 500\mu\text{m}$ (The standard for custom-made products is $1\mu\text{m}$)

Tolerance: Range $2\mu\text{m}$ or more, can be customized.

Length: D Ratio $\sim 20\times$.

Tip angle: Can be customized.



Other Products, equipment and services

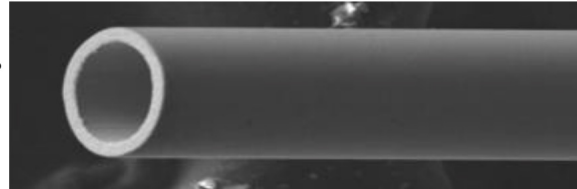
[Micro Spring].

Φ65 μm~ can be supplied

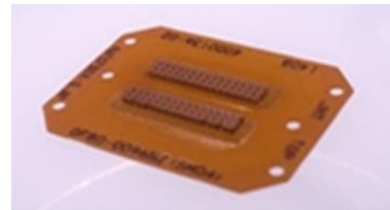


[Laser processed products].

Φ20 μm ~ can be supplied



[Conductive rubber sheet].



[Various processing and inspection equipment].



We can process and provide various materials, and we also sell processing machines and equipment.