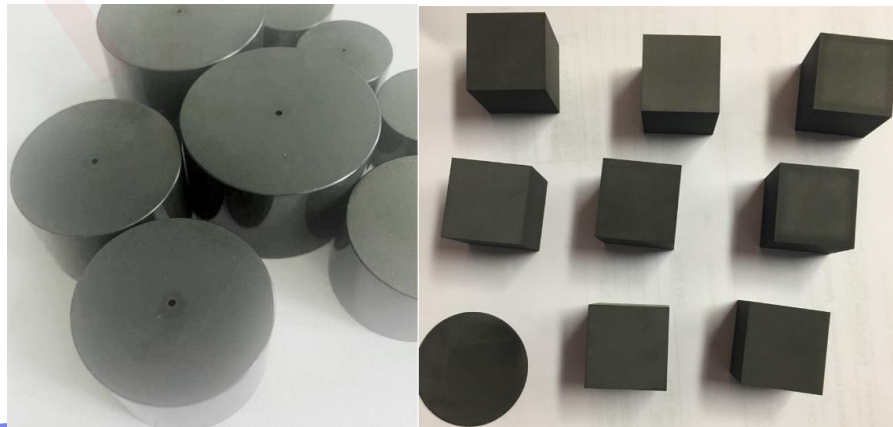




## Silicon Bond High Thermal Stability PCD Blanks

PCD WIRE DIE BLANKS

PCD WEAR PARTS



## Products Category



**STB Series:** Silicon High Thermal Stability PCD Blanks. (Unconductive)

Excellent wear resistance and heat resistance.

**SCB Series:** Silicon **Conductive** High Thermal Stability PCD Blanks

The upgrade of STB series, which could adopt EDM cutting.

# STB PCD Blanks

## Products Features

- High temperature resistance and good thermal stability (heat resistant temperature can reach 1100 ° C);
- High wear resistance, wear ratio is greater than  $10 \times 10^4$ ;
- The friction coefficient is extremely low, the thermal conductivity is good, and the thermal expansion coefficient is extremely small;
- Corrosion resistance (various acids, alkalis, salts), strong oxidation resistance and light weight.

## Products Application

- Drawing die: processing and drawing ferrous metal, non-ferrous metals, making bars, pipes and wires;
- High temperature and corrosion resistant wear parts: oil nozzles, water cutting and sandblasting nozzles, drill bit diameters, oil seals, bearings, robot joints, etc.

## STB PCD Blanks

### Products Advantages

- ❖ For copper and aluminum processing, the die life is >100 times that of cemented carbide;
- ❖ For iron wire and stainless steel wire, the service life is >50 times that of cemented carbide.

The extension of the die life is of great significance for ensuring the consistency of the customer's finished wire size and high efficiency and low cost.

Support for the hot casing, the temperature of the casing is 800~850 degrees, and the temperature of the casing can be appropriately increased under the premise that the steel sleeve does not change phase.

## SCB PCD Blanks (Conductive)

Silicon-based thermally stable diamond polycrystals use silicon as a binder to form silicon carbide on the carbon atoms on the surface of silicon and diamond, connecting the diamond particles and particles.

All products are manufactured with strict raw material control, scientific and reasonable proportioning design and stable parameter control to ensure product quality.



### **Products Application:**

Nozzles, wire bundling and stranding dies, grinding centers, turning and dressing tools, and a wide variety of other wear parts across many industries.

## SCB PCD Blanks (Conductive)

### Products Features:

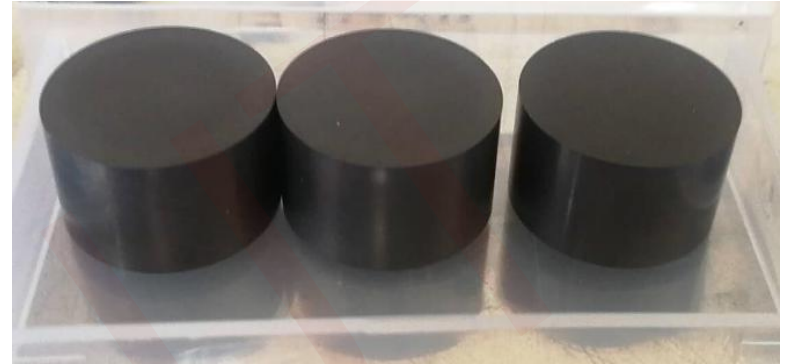
Good electrical conductivity, can be quickly cut with slow wire;

High temperature resistance, heat resistant temperature can reach 1100 ° C.

Excellent wear resistance, wear ratio is greater than  $10 \times 10^4$ .



## SCB PCD Blanks (Conductive)



### Products Advantages (Compared with Co Based PCD Blanks)

Heat resistance is higher;

When processed by EDM, the processing speed is slightly faster;

Cost performance is much better;

The tool life is almost same for processing soft metal such as copper or aluminum;

The uniformity of the center and edge is much better.

**PCD Blank Size**

<b>Diameter (mm)</b>	<b>Thickness (mm)</b>
20	12
22	14
24	16
28	16
30	18
32	18
34	20
36	22
38	22
40	22

Note: Other size could be customized



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