PCD Wire Drawing Dies

Specifications



Working material	Polycrystalline diamond (PCD), sintered at high pressure and temperature
Blank type	Carbide-supported (diamond core in a tungsten carbide ring) or self-supported (solid PCD)
Grain size	Typically 1 µm to 50 µm, with 5 µm and 25 µm the most common choices. Finer grain for surface finish; coarser grain for wear resistance on harder or more abrasive wire
Bore size	From fine sizes up to about 26 mm; confirmed per enquiry
Bore geometry	Entrance, approach angle, bearing length and back relief made to your specification, or to suit the wire and reduction if you leave it to us
Casing	Steel casing, sized to your die holder; send the machine model or casing dimensions
Shaped bores	Available — square, hexagonal, rectangular and other profiles; see shaped dies
Wet or dry drawing	Both
Re-sizing	Yes. A worn PCD die can be re-polished to the next larger size, usually more than once

All sizes and geometries are confirmed on the order. For a full material comparison, see wire drawing die materials compared.