Nano Coated Wire Drawing Dies

Specifications



Coating	Nano-crystalline diamond, applied to the bore by CVD
Body	Tungsten carbide
Bore size	From under 1 mm up to large sizes; 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, flat and other profiles to your drawing; see shaped dies
Wet or dry drawing	Both. Two things to watch: keep the lubricant — powder or oil — free of hard particles that can score the coating, and on high-speed dry lines keep the die box cooled so the die is not thermally shocked
Re-sizing	Not possible. The coating cannot be recut; a worn die is replaced. For dies you intend to re-size, see PCD dies
Tolerance	To your specification; −0.01 / 0 mm is routine. Listed for each die on the pro forma

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