



Tungsten Carbide Wire Drawing Dies

Specifications



Tungsten Carbide drawing dies are produced to industry-standard specifications for reliable performance in wire drawing. Below are typical specifications, including size ranges, tolerances, casing dimensions, and other key parameters, compiled from common practices across high-quality manufacturers.

Die Size Range (Nominal Hole Diameter)

Hole Diameter Range (mm)	Typical Application	Common Incremental Steps
0.10 – 1.00	Fine wire drawing	0.01 mm
1.00 – 5.00	Intermediate drawing	0.01–0.05 mm
5.00 – 12.00	Coarse / intermediate drawing	0.05–0.10 mm
12.00 – 40.00+	Rod breakdown / large rod drawing	0.10–0.50 mm or larger

- Minimum hole diameter: ~0.10 mm (fine wire)
- Maximum hole diameter: Up to 50.00 mm or more (rod-size, custom larger available)
- Other sizes and custom ranges available on request.

Hole Size Tolerances (Standard)

Hole size and roundness are made to your drawing tolerance and confirmed per order; standard and tight tolerances are both available.

- Bearing length tolerance: Typically $\pm 10\text{--}20\%$ of nominal length.

These specifications reflect widely accepted industry standards for tungsten carbide drawing dies used in ferrous wire production. Values can vary based on specific grade selection, manufacturer practices, or custom requirements. For detailed size charts, exact tolerances, or recommendations tailored to your wire material, reduction schedule, lubrication, or machine type, send us your wire grade, sizes and drawing speed — we will recommend the die type.