

Monodie MD111



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The wire drawing die blank product from the Mono synthetic single crystal diamond range.



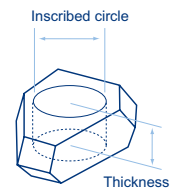
Monodie MD111.

In every conceivable application from electronics to construction, wire drawing dies are the essential tools used to produce the billions of miles of wire drawn throughout the world. For applications of drawing non-ferrous, ferrous, precious and refractory metals which require ultra fine finishes, diamond is the preferred wire drawing material.

Monodie MD111 is Element Six's premier product for this application and it offers the highest level of quality consistency in wire drawing die blanks. Each diamond blank is produced by a stringently controlled single crystal synthesis process and 100% inspected. Properties of the material include exceptional wear resistance resulting from its particular crystal orientation (111).

Size Availability

Product nomenclature	Nominal thickness [mm]	Thickness tolerance [mm]	Minimum inscribed circle diameter [mm]
MD111/05	0.5	0.46 - 0.55	0.6
MD111/06	0.6	0.56 - 0.65	0.7
MD111/07	0.7	0.66 - 0.75	0.8
MD111/08	0.8	0.76 - 0.85	0.9
MD111/09	0.9	0.86 - 0.95	1
MD111/10	1	0.96 - 1.05	1.1
MD111/11	1.1	1.06 - 1.15	1.2
MD111/12	1.2	1.16 - 1.25	1.3
MD111/13	1.3	1.26 - 1.35	1.4
MD111/14	1.4	1.36 - 1.45	1.45
MD111/15	1.5	1.46 - 1.55	1.5
MD111/16	1.6	1.56 - 1.65	1.6
MD111/17	1.7	1.66 - 1.75	1.7
MD111/18	1.8	1.76 - 1.85	1.8
MD111/19	1.9	1.86 - 1.95	1.9
MD111/20	2	1.96 - 2.05	2



Advantages

- Growth with 3 point orientation to reduce hole wear distortion during wire drawing.
- High level of product quality consistency.
- Exceptional wear resistance.
- High thermal stability.
- High thermal conductivity.
- Long tool life.
- High quality finish on drawn wire.

This is coupled to excellent thermal conductivity and thermal stability at temperatures up to 1100°C in a non-oxidising environment. This all adds up to a long tool life and high quality finish on the drawn wire.

Product Selection

Monodie MD111 blanks are categorised by their thickness in millimetres (see Table). The other product dimension that defines the product is the inscribed circle diameter. All standard sizes can be provided in large volumes.