

Mono

Monodite MT

Engineered monocrystalline synthetic diamond blanks for cutting tool and wear part applications.

Monodite blanks are made from type 1b synthetic diamond crystals, each synthesised under tightly controlled growth conditions and subjected to high standards of quality control with regard to dimensions and physical characteristics. Monodite products are thermally stable to above 1000°C in a non-oxidising environment.

Monodite rectangles, triangles and rounds are manufactured from larger crystals with all faces cut and processed to defined dimensional tolerances.

APPLICATIONS

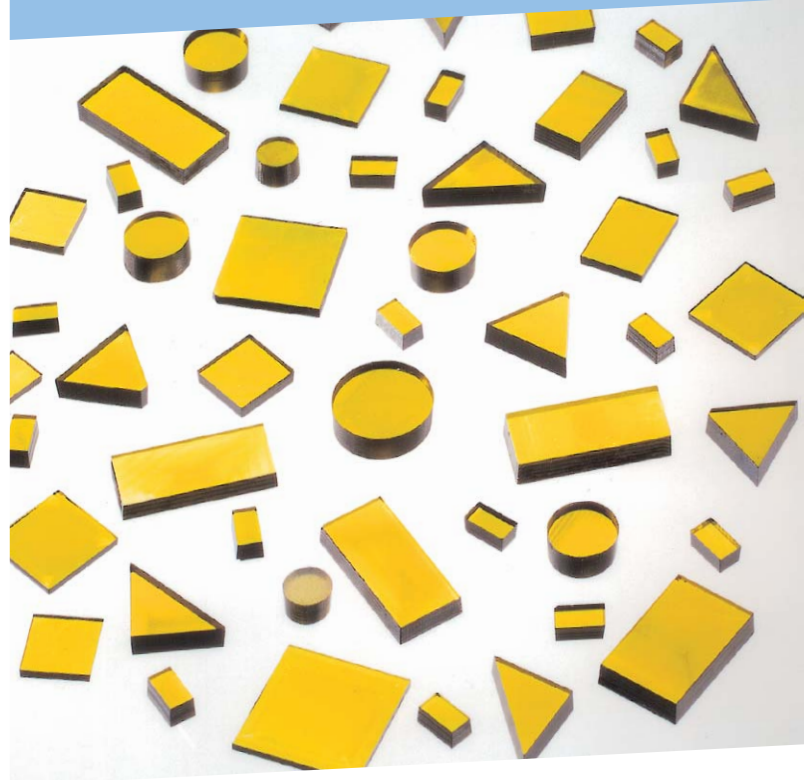
Monodite tool blanks are suitable for use in cutting tools used for super-finishing operations, burnishing tools and wear parts.

AVAILABILITY

Monodite rectangles, triangles and rounds are standard products and are available up to 8 mm maximum edge length and thickness up to 2 mm. Monodite plates are oriented on the {100} cubic plane.

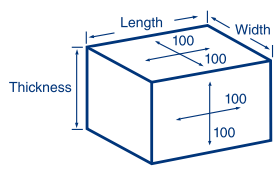
Advantages

- Availability of specified shapes and dimensions to suit customer requirements.
- Premium quality product.
- Produced in standard thicknesses up to 2.0 mm thick.

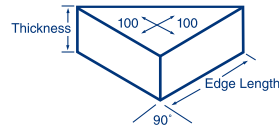
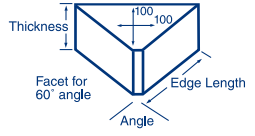


Monodite MT is a highly engineered and tightly specified product.

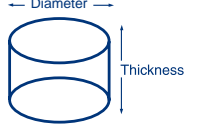
Monodite MTL

Product nomenclature	Type	Shape	Dimensions [mm] length x width x thickness	
MTL 503012	MT	L	5.0 x 3.0 x 1.2	
MTL 501212			5.0 x 1.2 x 1.2	
MTL 403015			4.0 x 3.0 x 1.5	
MTL 403012			4.0 x 3.0 x 1.2	
MTL 401515			4.0 x 1.5 x 1.5	
MTL 401212			4.0 x 1.2 x 1.2	
MTL 303015			3.0 x 3.0 x 1.5	
MTL 303012			3.0 x 3.0 x 1.2	
MTL 252512			2.5 x 2.5 x 1.2	

Monodite MTT

Product nomenclature	Type	Shape	Dimensions [mm] edge x length x thickness	Angle (°)	
MTT 4012 - 60	MT	T	4.0 x 1.2	60	 
MTT 3010 - 60			3.0 x 1.0	60	
MTT 3012 - 90			3.0 x 1.2	90	
MTT 3012 - 60			3.0 x 1.2	60	

Monodite MTR

Product nomenclature	Type	Shape	Dimensions [mm] diameter x thickness	Angle (°)	
MTR 2608 - 360	MT	R	2.6 x 0.8	360	
MTR 2512 - 360			2.5 x 1.2	360	



MTL 403012



MTT 4012 - 60



MTR 2512 - 360

L = Rectangle

T = Triangle

R = Round

Non standard products, i.e. those not conforming to any listed specification may be supplied on request. Availability is conditional upon the precise dimensions and specification of the non standard items.