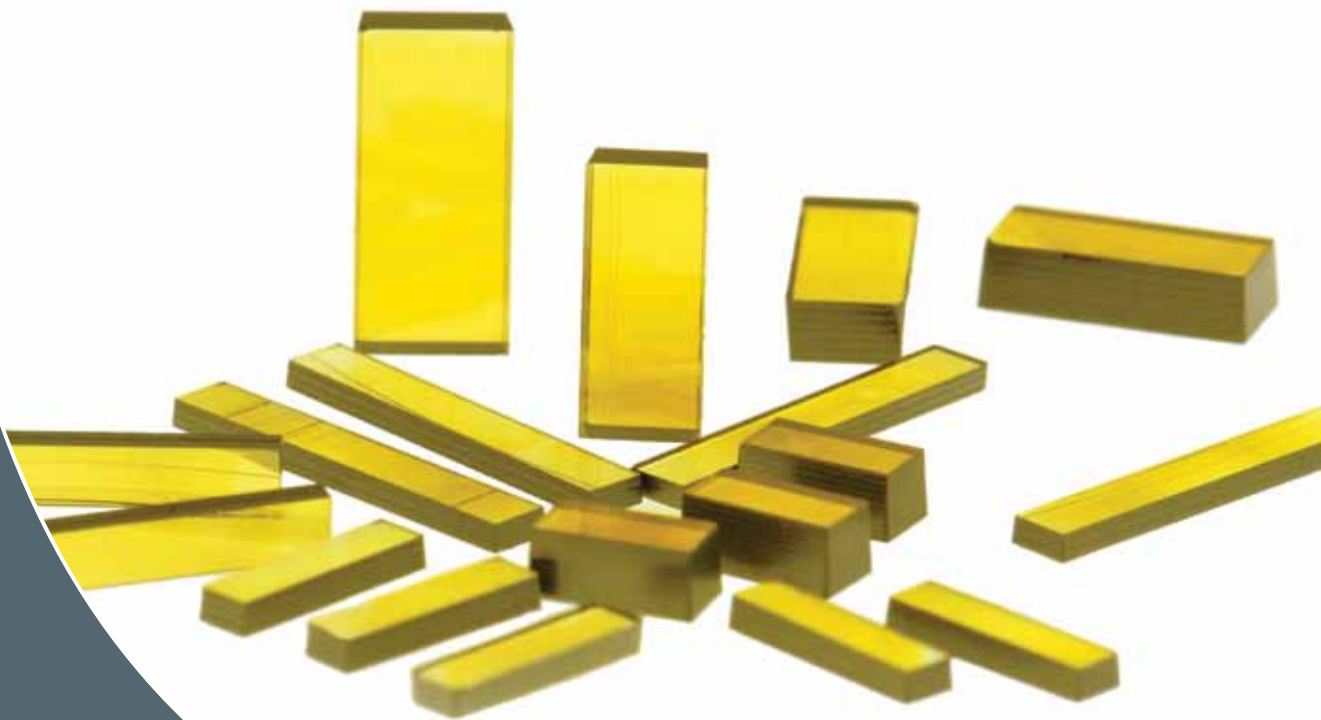


Monodress MDL



Monodress MDL

The dresser log product from the Mono synthetic single crystal diamond range.

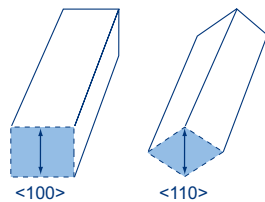


Monodress MDL is supplied in a range of length and square cross sections which are laser cut to exact dimensions to facilitate tool manufacturers.

Dressing Tools developed by Element Six are suitable for all dresser types for example: single point, multi-point and blade dressing. The product has been developed to offer high resistance to abrasive wear in dressing and parting tool applications. Monodress MDL also benefits from excellent thermal stability. Monodress MDL is supplied as rectangular or square shaped logs in various lengths. Dresser size is determined by the particular application and suitable dimensions can be recommended on request. Each product has {100} (four point) orientation on all faces that are easily defined and located with their grinding directions.

The products have been designed to offer consistent and uniform wear over the entire length of the dresser.

Simply by rotating the logs through 45° about their central axis, the two point direction can be revealed, offering the option to make a tool with even greater wear resistance. As the MDL has a constant dresser width, no resetting is needed.



Tool Fabrication

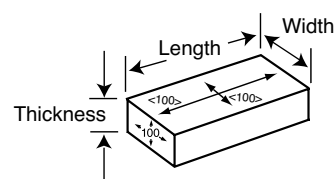
Two methods of tool fabrication are suitable for use with Monodress MDL – non-ferrous metal sintering or brazing onto a dresser body using an active braze alloy in a non-oxidising environment. Using diamond grinding, the dressers can be shaped in-situ to make cone, chisel and rounded shapes. Piercing can be carried out by laser or ultrasonic machining techniques.

Advantages

- Consistent wear from dresser to dresser.
- Uniform wear over the entire length of the dresser.
- Easy-to-use toolmaking material.
- Excellent thermal stability.
- Constant dresser width - no resetting needed.

Size Availability

Product Nomenclature	Dimensions [mm] (length x width x thickness)
MDL 251212	2.5 x 1.2 x 1.2
MDL 251515	2.5 x 1.5 x 1.5
MDL 300404	3.0 x 0.4 x 0.4
MDL 300606	3.0 x 0.6 x 0.6
MDL 300808	3.0 x 0.8 x 0.8
MDL 301010	3.0 x 1.0 x 1.0
MDL 301212	3.0 x 1.2 x 1.2
MDL 301515	3.0 x 1.5 x 1.5
MDL 400404	4.0 x 0.4 x 0.4
MDL 400606	4.0 x 0.6 x 0.6
MDL 400808	4.0 x 0.8 x 0.8
MDL 401010	4.0 x 1.0 x 1.0
MDL 401212	4.0 x 1.2 x 1.2
MDL 401515	4.0 x 1.5 x 1.5
MDL 500404	5.0 x 0.4 x 0.4
MDL 500606	5.0 x 0.6 x 0.6
MDL 500808	5.0 x 0.8 x 0.8
MDL 501010	5.0 x 1.0 x 1.0
MDL 501212	5.0 x 1.2 x 1.2
MDL 501515	5.0 x 1.5 x 1.5



Non-standard dimensions are available by request for this product.