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The diamond parting-off grinder DS150 NC is a modern production machine

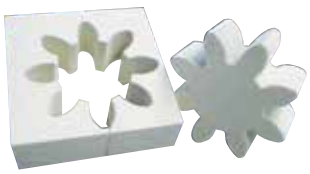
The diamond wire saw DS150 NC is ideal for the cutting of 2D contours

Passage (HxW) is 120 x 460 mm, travel work area is 430 x 430 mm (X axis, Y axis)

The diamond wire saw DS150 NC is a diamond parting-off grinder which lends itself ideally for the cutting of 2D contours. The wire unit works horizontal, therefore after cutting the workpiece remains at the starting material, it does not fall off. The linear guidings with recirculation ball bearings are covered by folding bellows. This guarantees a longevity when sawing abrasive materials.

The ball screws used for the feed allow the pre-programmed contour to be followed with high precision. The process of programming the workpiece contour with external CAD programs is supported by such features as automatic tool radius correction, automatic closure of the contour and the graphic display and process simulation.

The diamond wire saw DS150 NC saws 2D contours in a variety of materials

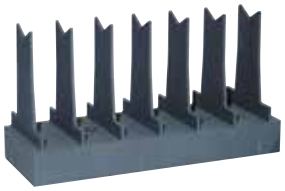


✓ Felt
No threading

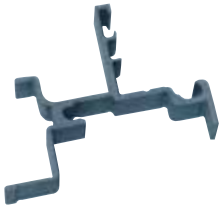
✓ GFK
No delamination

✓ Graphite
Surface in ground quality

✓ Graphite electrodes
Small interior radii



✓ Hard metal green compact
Thin bridges do not break out



✓ Green ceramics
Complicated contours without breaks

✓ PP with foam
Clean cut in compound materials

Key features

- ✓ The sawing wire is diamond-covered on all sides, allowing it to cut in any direction.
- ✓ Low processing energy means minimal heating and low tension force is sufficient to clamp the workpiece.
- ✓ Narrow cut minimises waste and dust.
- ✓ Wire never jams but cuts itself free.
- ✓ The multiple bending of the wire means that the chip space is cleaned more effectively during each cycle than is the case with rigid tools.
- ✓ Tightly guided saw wire for cutting precision.
- ✓ No chipping, so suitable for fragile materials.

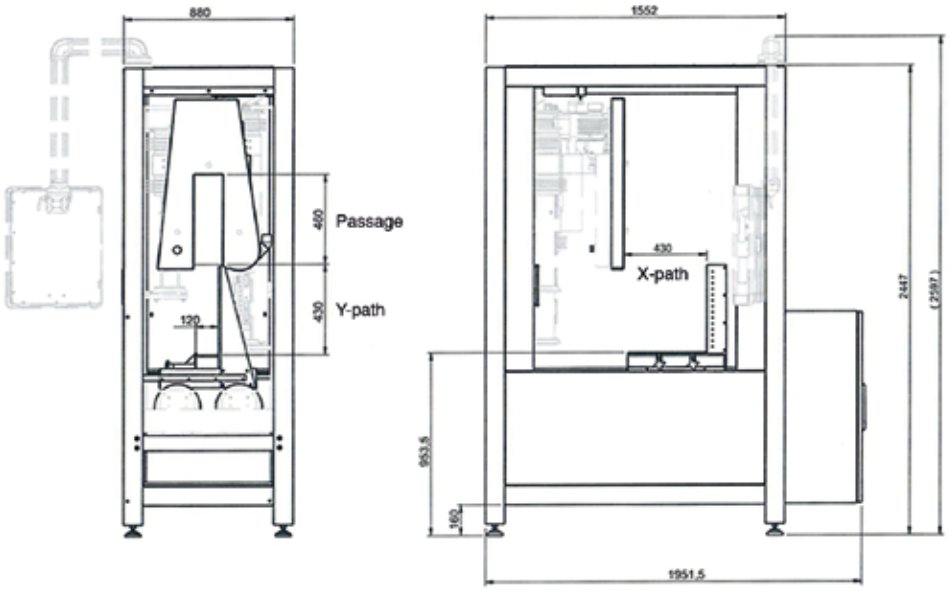
Functioning

The workpiece can be processed on two axes with any interpolation. The wire is driven by a four-phase current motor controlled by a frequency transformer. The speed of the wire can be set at any point between 300 and 3000 m/min. To insert and tension the wire, the drive motor and the drive roller are moved with a pneumatic cylinder. The wire tension is set by the adjustable air pressure on the pressure reducer.

The process of programming the workpiece contour with external CAD programs is supported by such features as automatic tool radius correction, automatic closure of the contour and the graphic display and process simulation. Precision in following the contour is ensured by ball screws, which achieve an optimum result in combination with the automatic delay in movement when radii are being processed.

The machine is equipped with glass scales for precise table positioning.

The dust is extracted directly under the work area. The sawdust is pulled down by the wire and then directly extracted.



Technical data	Description
Lenght:	1698 mm
Width:	880 - 890 mm
Height:	2600 mm with a use panel
Passage:	120 mm x 460 mm
Work area (X axis, Y axis):	430 mm, 430 mm
Axes of rotation:	150 mm
Sawing wire:	Ø 0,7 mm – 1,2 mm, length 1870 mm
Wire speed:	300 – 3000 m/min
Drive:	Three-phase current motor 750 W
Weight:	360 kg

Available option

Dust removal

Suction unit with 2.2 kW lateral channel compressor, 2 m² M filter with manual cleaning, and a final filter that removes any residual dust from the air.

Specification is subject to change without notice.

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