

# DRAMET

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## The diamond parting-off grinder DS750 NC is a modern production machine

The diamond wire saw DS750 NC is ideal for the cutting of 2D contours

Passage (H) is 120 mm, travel work area is 400 x 300 mm (X axis, Y axis)

The diamond wire saw DS750 NC is a diamond parting-off grinder which lends itself ideally for the cutting of 2D contours.

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 DS750 NC saws 2D contours in a variety of materials



- ✓ Felt  
No threading



- ✓ GFR  
No delamination



- ✓ Graphite  
Surface in ground quality



- ✓ Graphite electrodes  
Small interior radii



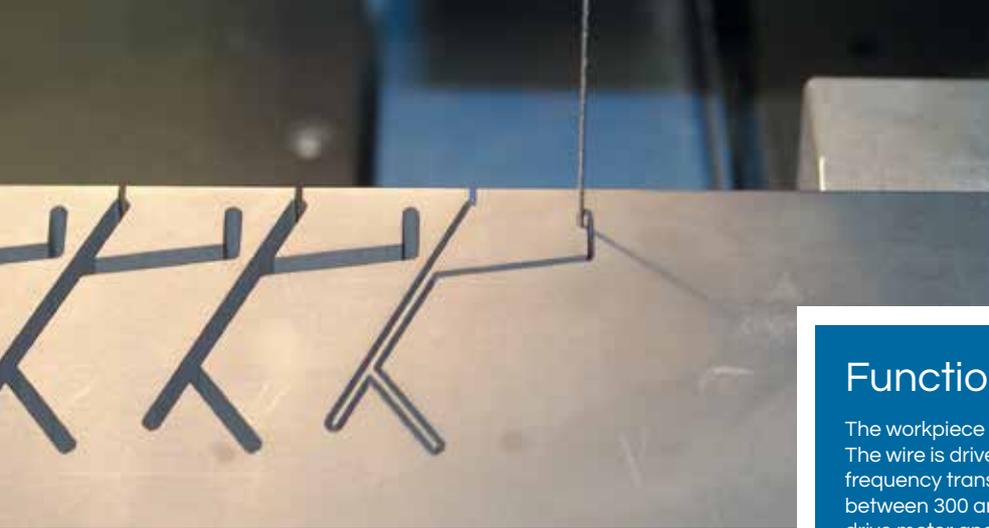
- ✓ Hard metal green compact  
Thin bridges do not break out



- ✓ Green ceramics  
Complicated contours without breaks



- ✓ PP with foam  
Clean cut in compound materials



## Functioning

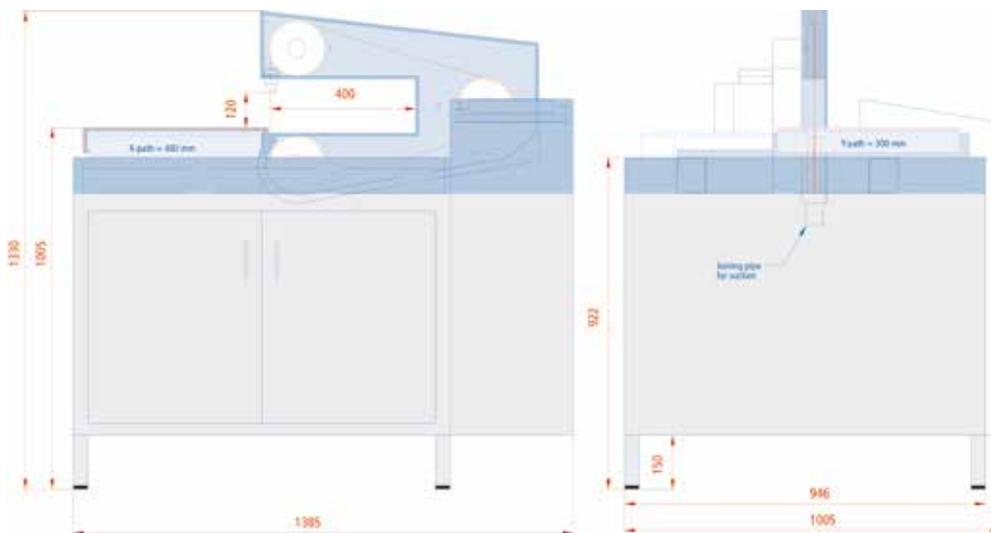
The workpiece can be processed on two axes with any interpolation. The wire is driven by a four-phase current motor controlled by a frequency transformer. The speed of the wire can be set at any point between 300 and 3000 m/min. To insert and tension the wire, the drive motor and the drive roller are 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 dust is extracted directly under the work area. The sawdust is pulled down by the wire and then directly extracted.

## 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.



Technical data	Description
Length:	1385 mm
Width:	1005 mm
Height:	1330 mm
Passage:	120 mm x 400 mm
Work area (X axis, Y axis):	400 mm, 300 mm
Axes of rotation:	150 mm
Sawing wire:	Ø 0,7 mm – 1,2 mm, length 1870 mm
Drahtgeschwindigkeit:	300 – 3000 m/min
Drive:	Three-phase current motor 750 W
Weight:	200 kg

## Available option

### Dust removal

Suction unit with 2.2 kW lateral channel compressor, 2 m<sup>2</sup> 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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