

# DRAMET

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The diamond parting-off grinder DS750 NC 4 is an innovative production machine

The diamond wire saw DS750 NC 4 is a modern diamond parting-off grinder

Passage (HxW) is 120 x 435 mm, travel work area is 450 x 320 mm (X axis, Y axis)

The diamond wire saw DS750 NC 4 lends itself ideally for cutting contours on conical workpieces.

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 4 cuts various substrates



- ✓ Felt  
No threading



- ✓ GFRP  
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

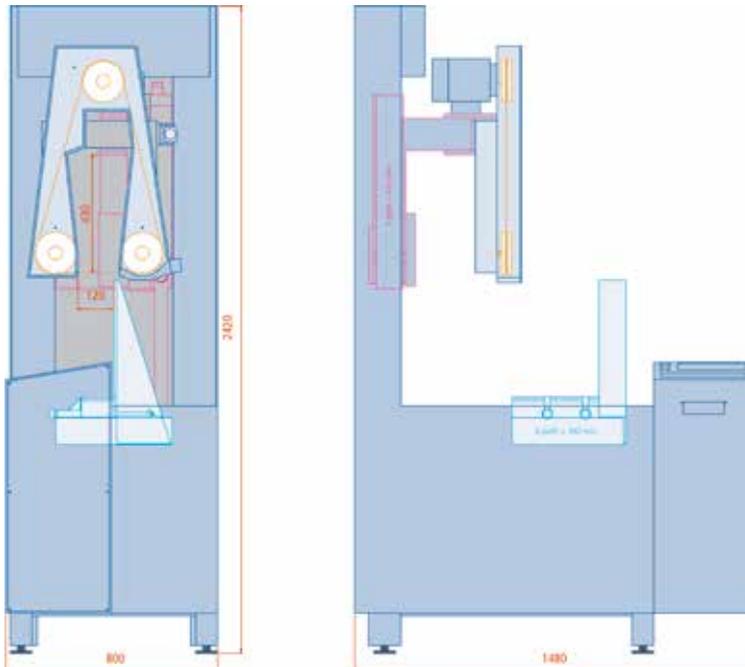
The workpiece can be processed on four axes with any interpolation. The wire is driven by a three-phase current motor controlled by a frequency transformer. The speed of the wire can be set at any point between 100 and 3000 m/min. Unlike the DS750 NC, the DS750 NC 4 machines workpieces in an upright position. The cut part does not fall downward. This allows several parts to be cut in succession without operator intervention. To insert and tension the wire, the drive motor and the drive roller are moved with a pneumatic cylinder. The wire tension is controlled 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.



## 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.

Technical data	Description
Length:	1480 mm
Width:	800 mm
Height:	2420 mm
Passage:	120 mm x 430 mm
Work area (X axis, Y axis):	340 mm, 430 mm
Roller diameter:	150 mm
Sawing wire:	Ø 0,7 mm – 1,2 mm, length 2100 mm
Wire speed:	100 – 3000 m/min
Drive:	Three-phase current motor 750 W
Weight:	450 kg

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