

DRAMET

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Talk to us!

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The diamond band saw BS200 S is an economically efficient laboratory machine with a fixed sawing unit

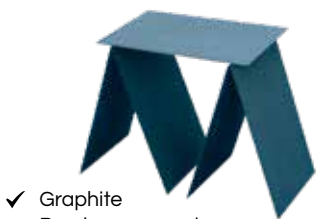
Passage (length, width) 200x200 mm, cutting length (X-axis) 200 mm.
Floor space 800 x 714 mm, 1858 mm high.

The diamond band saw BS200 S has a sliding table that can be manually moved while sawing. During operation the sliding table can also be moved by its own weight.

In terms of sawing different thicknesses, the machine can be easily adjusted. Slice thickness can be verified by using the manual lock.

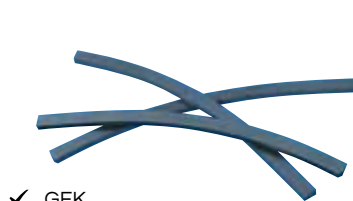
The diamond band saw can be operated with a dry cut or alternatively with cooling. Under specific conditions a cooling creates more effective cuttings combined with higher rotational speeds and higher feed rates.

The diamond band saw BS200 S cuts various substrates



✓ Graphite
Precise, even cuts

Cooling: dry
Speed: 35 mm/min



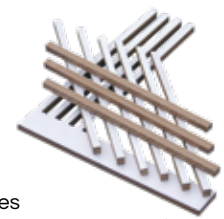
✓ GFK
No delamination

Cooling: water
Speed: 60 mm/min



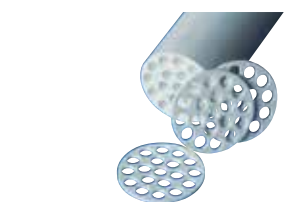
✓ Catalyser
Torn bridges don't break out

Cooling: dry
Speed: 900 mm/min



✓ Tiles
The glaze does not flake off

Cooling: water
Speed: 100 mm/min



✓ Aluminium oxide
Clean cut, no breaking out

Cooling: dry
Speed: 300 mm/min



✓ Glass
No breaking off

Cooling: water
Speed: 70 mm/min



✓ Stainless steel cooler
No soldered plates tear off

Cooling: water
Speed: 2 mm/min



✓ Plastinate
Cutting surfaces on parallel planes

Cooling: water
Speed: 30 mm/min



Functioning

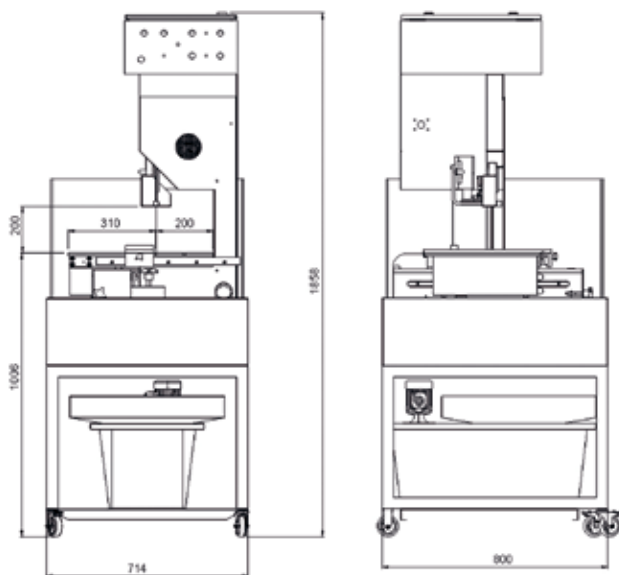
The BS200 S is composed of a band unit with two deflection rollers $D = 230$ mm with a passage (H x W) of 200 x 200 mm. The diamond saw band runs over two rollers in an endless loop. It is driven and pneumatically tensioned by the height-adjustable upper roller. The band is driven by a 750 W 3-phase current motor controlled by a frequency transformer. The band tension is set by the adjustable air pressure on the pressure reducer. The speed of the band can be set between 200 and 2200 m/min.

The workpiece table's linear guidance can be tilted using an adjustment screw. The table moves with a constant feed force driven by its own weight without the need for manual operation.

It can be operated with a dry cut or alternatively with cooling. For dry cutting, a suction unit is attached to the exhaust connector provided. For the stainless version, pure water can be used for cooling.

Key features

- ✓ Cut width of 0.4 to 0.8 mm (depending on saw band used) means minimal waste.
- ✓ Low processing energy means minimal heating and low tension force is sufficient to clamp the workpiece. This virtually eliminates the risk of chipping when machining fragile or temperature-sensitive parts.
- ✓ The high band speed means high cutting performance.
- ✓ The quality of the cut surface is as if ground.



Available option

Coolant system

Collecting tray with drain to coolant tank.
The coolant pump is automatically controlled.
A filter tissue of around 0.7 x 0.7 mm can be inserted and replaced when necessary.

Specification is subject to change without notice.

Technical data	Description
Length:	800 mm
Width:	714 mm
Height:	1858 mm
Passage:	200 mm x 200 mm
Travel (X, Y):	200 mm, 200 mm
Deflection roller diameter \varnothing :	230 mm
Guide roller diameter \varnothing :	47 mm
Standard band:	0,7 mm x 8 mm, length 1870 mm
Band speed:	200 – 2200 m/min
Drive:	Three-phase current motor 750 W
Weight:	110 kg

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