

DRAMET

Draht - und Metallbau GmbH

Talk to us!

Tel +49 (0)2689-6045

www.dramet.com



The diamond band saw BS230 XY is a well appointed laboratory machine

The diamond band saw BS230 XY impresses with its compact design

The machine is well appointed for laboratories and it has a fixed saw unit. Passage: (HxW) 200 x 200 mm, cutting length (x-Axis) 200 mm. Floor space 690 x 780 mm. Height 1850 mm.

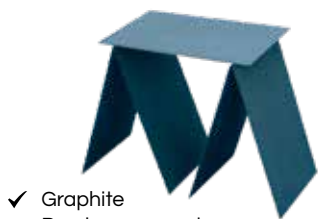
To saw and cut different thicknesses the diamond band saw BS230 XY is designed to permit, the adjust moving to be quickly set on a cross table that is operated by an servomotor. The feed force is displayed on the screen, that can also be used to adjust the feed rate.

The feed rate describes the speed of the machine, not only to carry out the sawing but also clamping the material with an easy material consumption.

For added comfort the machine has a standard cab and measuring unit, that controls feed rate.

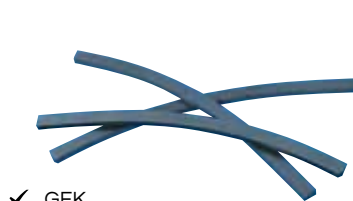
Both dry cutting and cutting with cooling are possible.

The diamond band saw BS230 XY cuts various substrates



- ✓ Graphite
Precise, even cuts

Cooling: dry
Speed: 35 mm/min



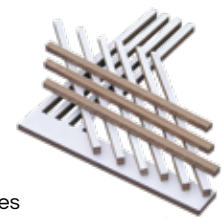
- ✓ GFR
No delamination

Cooling: water
Speed: 60 mm/min



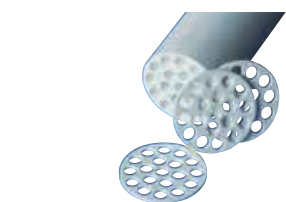
- ✓ Catalyser
Torn bridges don't break out

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 diamond saw band runs over two rollers in an endless loop. It is driven and pneumatically tensioned by the top roller. The band tension is set by the adjustable air pressure on the pressure reducer. Near the work area, the band is guided by two zero-backlash guide roller units. The wire is driven by a three-phase current motor controlled by a frequency transformer. The speed of the band can be set at any point between 200 and 2000 m/min.

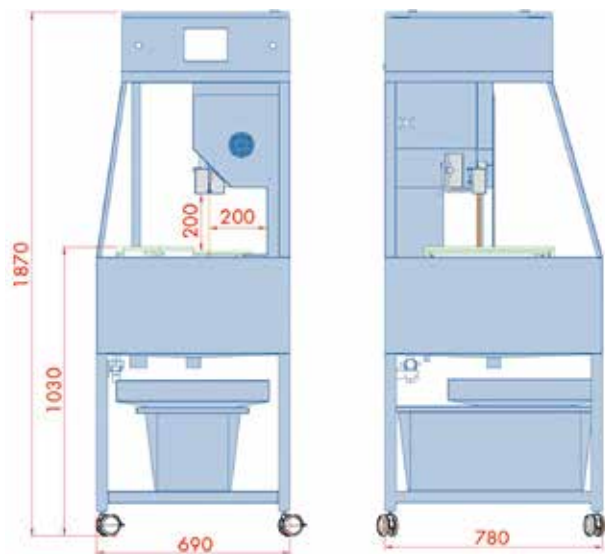
The travel of the X and Y tables is program-controlled with ball screws and servomotors. Travel and feed rates are programmable. The tables can be positioned with the help of buttons. Control: Mitsubishi touch-screen PLC control with menu-driven programming. It can be operated with a dry cut or alternatively 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.

The BS230 XY is equipped as standard with a measuring unit to measure the feed force. During cutting, the feed force is displayed on the screen. This allows the feed and band speed to be optimally adjusted.

The equipment includes a spray protection cabin.

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.
- ✓ The program-controlled, adjustable Y table with linear guiding allows slices to be accurately cut from the workpiece with repeatable thickness.



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:	780 mm
Width:	690 mm
Height:	1890 mm
Passage:	200 mm x 200 mm
Travel (X, Y):	200 mm, 200 mm
Deflection roller diameter Ø:	230 mm
Guide roller diameter Ø:	47 mm
Standard band:	0,7 mm x 8 mm, length 1870 mm
Band speed:	200 – 2000 m/min
Drive:	Three-phase current motor 750 W
Weight:	150 kg

DRAMET DRAHT- UND METALLBAU GMBH
Werkstraße 15 | 56271 Kleinmaisheid | GERMANY
Telefon: +49 (0)2689-6045 | Fax.: +49 (0)2689-6035
E-mail: info@dramet.de | Website: www.dramet.com

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