



The **BRILLANT 250** is a powerful, versatile and reliable wet abrasive cut-off machine for samples up to max. Ø 110 mm. The large cutting chamber enables a wide range of clamping possibilities.

For especially long materials, the generously dimensioned and solid aluminium construction is equipped with a side entrance. The unit offers automatic traverse cut and manual cut-off. The Brillant 250 is available in various models for meeting various demands. The E-Model with automatic process sequence and operation via electronic control is not only easy but also clearly arranged.



INNOVATIVE DETAILS

The sliding front door and the side door with safety interlock allow easy and optimal access to the cutting chamber. Further, the LED cutting chamber illumination is energy-saving. The arbour is protected against wearing by an interchangeable ring.

PULSED CUTTING

In cases where there are heavy sections and materials which are difficult to cut, the variable pulsed cutting system gives decisive advantages.

ELECTRONIC PERFORMANCE CONTROL

The feed rate is reduced upon reaching the preset maximum power. This protects the machine and its cutting components from overloading.



ELECTRONIC CONTROL

Cutting parameters for the automatic traverse cuts can be saved in the electronic control, and then loaded later. The position of the manual traverse cut is also shown on the display. All parameters such as feed rate, travel and cutting force can be altered during automatic cycles.



PROGRAM SEQUENCE/CYCLE

Press the start key and the driver motor and feed are activated. Upon reaching the end of the predetermined cutting path, the table returns to its start position and the machine switches off. The feed automatically goes into reverse in the case of overloading.

PRECISION CROSS FEED

The optional, automatic cross-feed with series cut function is suitable for exact parallel cuts. Operational handling takes place via electronic control. The electronic cross-feed can also be applied as feeder axis when working with pot wheel.



(X) with automatic horizontal movement

(Z) automatic cross feed



WITH MANUAL CROSS-FEED

BASIC MODULE



BRILLANT 250

Order No.: M1820002

- » Manual vertical movement, horizontal movement automatic and manual, or manual only
- » Automatic pulsed cutting (with auto x-drive option)
- » Electronic distance control (with auto x-drive option)
- » Cutting force dependant feed control (with auto x-drive option)
- » Z-axis options manual or automatic
- » Electronic control with clear LC-display and memory for saving programs (option)
- » Sliding door and side door with interlock
- » T-slot table, stainless steel
- » Opening on left- and righthand side for continuous long materials
- » Solid aluminium design, powder coated
- » LED cutting chamber-illumination, Easy-nut, arbour with protector

EQUIPMENT

POWER SUPPLY (select equipment)

Equipment 1

Fixed speed 2750 rpm

400 V/50 Hz (3/N/PE)

Order No.: A1820000

Equipment 2

480 V/60 Hz (3/PE)

Order No.: A1820001

Equipment 3

220 V/60 Hz (3/PE)

Order No.: A1820002

Variable speed 750-3000 U/min

400 V/50 Hz (3/N/PE)

Order No.: A1820003

480 V/60 Hz (3/PE)

Order No.: A1820004

220 V/60 Hz (3/PE)

Order No.: A1820005

CUT-OFF WHEEL/CUTTING CAPACITY (select equipment)

Equipment 1

Cut-off wheel Ø 250/10"

Order No.: A1820013

» Max. cutting capacity Ø 85 mm

Equipment 2

Cut-off wheel Ø 300/12"

Order No.: A1820014

» Max. cutting capacity Ø 110 mm



E-Lab ready



Easy-nut for easy change of cutting wheel

EQUIPMENT



BRILLIANT 250

TABLE DRIVE (select equipment)

Equipment 1

X-axis manual (handle)

Order No.: A1820006

» Made of stainless steel

» X-axis travel 250 mm

Equipment 2

X-axis automatic

Order No.: A1820007

» Made of stainless steel

» X-axis travel 250 mm

CROSS-FEED Z-AXIS (select equipment)



Equipment 1

without Z-axis

Order No.: A1820010

Equipment 2

Z-axis manual (handle)

Order No.: A1820011

» Made of stainless steel

» Z-axis travel 100 mm

» Precision 0.1 mm

Equipment 3

Z-axis automatic

Order No.: A1820012

» Made of stainless steel

» Z-axis travel 100 mm

» Precision 0.01 mm

ACCESSORIES

RECIRCULATION COOLING SYSTEM

» 2-chamber-pvc-compartment 45 Ltr.

» Inlet sieve and filter bag

» Incl. connection set

» Controlled by cut-off machine

Mobile, with insertion mechanism for System Lab cabinets

400 V/50 Hz (3/PE)

Order No.: A5800484

480 V/60 Hz (3/PE)

Order No.: A5800485

220 V/60 Hz (3/PE)

Order No.: A5800486

**Mobile**

400 V/50 Hz (3/PE)

Order No.: A5800487

480 V/60 Hz (3/PE)

Order No.: A5800488

220 V/60 Hz (3/PE)

Order No.: A5800489



BELT FILTER SYSTEM 130

Belt filter system 130

400 V/50 Hz (3/PE)

Order No.: A6501009

480 V/60 Hz (3/PE)

Order No.: A6501011

220 V/60 Hz (3/PE)

Order No.: A6501010



» Incl. filter roll

» Tank 130 Ltr.

» Filter capacity 30 Ltr./min (referring emulsion)

» Pump 15 Ltr./min

» WxHxD 530x630x1260 mm

» Weight approx. 90 kg

Connection set Brilliant 230/250

Order No.: Z6501004

» For belt filter system please order connection set



ACCESSORIES

SYSTEM LAB CABINET



Order No.: M5800044

- » System lab assembly
- » WxHxD 880x800x800 mm

CENTRIFUGAL SEPARATOR

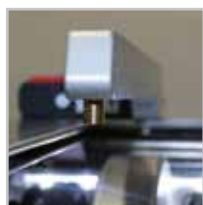


- 400 V/50 Hz (3/PE)
- Order No.: Z1820009
- 480 V/60 Hz (3/PE)
- Order No.: Z1820012
- 220 V/60 Hz (3/PE)
- Order No.: Z1820011

- » To remove coolant mist
- » Increases quality of illumination
- » exhauster power 180 or 215 m³/h depending on power supply

OPTION

LASER ALIGNMENT AID



Order No.: A1820023

- » Laser line to visualize the cutting line
- » Laser class 2 EN/IEC 60825-1

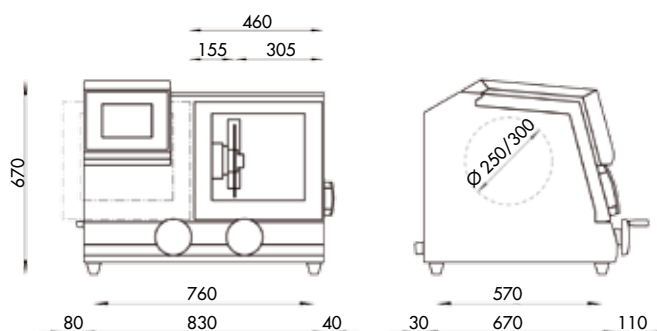
ROTATION TOOL



on request

- » Tool with vertical rotary feed, parallel to wheel
- » Angle input via software control

SPECIFICATIONS



Max. cutting capacity	1	Ø 85 mm (Ø 250 mm cut-off wheel)
	2	Ø 110 mm (Ø 300 mm cut-off wheel)
Cut-off wheels	1	Ø 250 mm/10"
	2	Ø 300 mm/12"
Arbour size	Ø 32 mm	
Vertical movement	125 mm	
Horizontal movement	250 mm	
Table WxD	1	380 x 250 mm (without Z-axis)
	2	300 x 250 mm (with Z-axis)
	3	
T-slot	12 mm	
Connected load	6 kVA	
Power supply	1	fixed speed 2750 rpm
	1	400 V/50 Hz (3/N/PE)
	2	480 V/60 Hz (3/PE)
	3	220 V/60 Hz (3/PE)
Connected load	10 kVA	
Power supply	2	variable speed 750-3000 rpm
	1	400 V/50 Hz (3/N/PE)
	2	480 V/60 Hz (3/PE)
	3	220 V/60 Hz (3/PE)
WxHxD	approx. 830 x 670 x 670 mm	
Weight	approx. 130 kg	

