

The universal wet-abrasive cut-off machine BRILLANT 265 with automatic travel and cut-off allows precise, soft touch cutting with 2 axes in arbitrary directions (Y/X axis) and can be equipped with an automatic or manual Z-axis for parallel serial-cuts (option).

The built in electronic control with LCD clearly shows the progress

of the current cutting cycle.

The large cutting chamber of solid, powder coated aluminum

ELECTRONIC CONTROL

With the electronic control, all cutting parameters can be saved and loaded again. During the automatic cutting process, all parameters such as feed speed, cutting force etc. can be modified.

PROGRAM CYCLE

By pressing the start button, the main motor and the feed are activated. After completing the pre-defined travel, the table moves back to its initial position and the machine is shut down. The feed speed decreases automatically when an overload occurs during the cutting process.

JOYSTICK CONTROL

To reduce times for setting up, all axes can be controlled with a joystick.

BRILLANT 265

construction is easily accessible through sliding front and side doors. Complex geometric shaped samples can be fixed securely on the T-slot table using our reliable clamping systems. The vibration reducing design of the cutting arm allows a low noise cutting process. Our approved LED cutting chamber illumination is energy saving, damage resistant and guarantees optimum illumination of the cutting chamber.

PULSED CUTTING

Especially when cutting through thick and difficult materials, the adjustable automatic pulsed-cut offers material advantages such as cutting clearance and optimal cooling of the intersection area.



PRECISION CROSS FEED

The Z-axis is integrated in the table. This allows keeping the cutting height at the same level. The automatic cross feed with serial cutting function produces precise parallel cuts.

CUTTING FORCE DEPENDENT FEED CONTROL

The feed speed automatically decreases when the cutting force reaches a pre-defined limit. This protects the machine, sample and clamping tools from over-loading.



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SAFETY

Integrated safety protection only allows the automatic doors to be opened when the cutting wheel has stopped rotating.



LASER ALIGNMENT

With line laser you can display the scheduled cut on the sample. This helps to define the exact cutting position.





BRILLANT 265

Order No.: M1841000

- » automatic horizontal and vertical movement
- » spacious cutting chamber with large table
- » openings on the left and right for continuous long parts
- » electronic control with clear LCD
- » automatic pulsed cutting
- » electronic travel measuring
- » cutting force-dependant feed control
- » program storage
- » direct positioning via joystick (all automatic axes)
- » current safety standard with door interlock (safety protection)
- » cutting wheel arbour with wear-ring
- » automatic central greasing (air required 6 bar)
- » Easy-nut for quick and easy exchange of cutting wheels
- » optimum cutting chamber illumination with LED
- » solid aluminium construction, powder coated
- » Easy-nut for easy change of cutting wheel
- » e-Lab-ready

POWER SUPPLY

Equipment 1 Fixed speed 1950 rpm Order No.: A1841000

Variable speed 1000-2700 rpm Order No.: A1841003

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

TABLE DRIVE

Equipment 1 **Without Z-axis** Order No.: A1841008 Equipment 2 Fixed speed 1950 rpm Order No.: A1841001

Variable speed 1000-2700 rpm Order No.: A1841004

480 V/60 Hz (3Ph/PE)

Equipment 3 Fixed speed 1950 rpm Order No.: A1841002

Variable speed 1000-2700 rpm Order No.: A1841005

220 V/60 Hz (3Ph/PE)

Equipment 2 **Z-axis manual (handle)** Order No.: A1841006 » made of stainless steel

Travel Z-axis	150 mm
Precision	0.1 mm

Equipment 3 **Z-axis automatic** Order No.: A1841007 » made of stainless steel

Travel Z-axis	150 mm
Precision	0.01 mm

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EQUIPMENT



Equipment 1 Cut-off wheel Ø 350 mm/14" Order No.: A1841009

WHEEL GUARD

Max. cutting capacity Ø 125 mm

Equipment 2 Cut-off wheel Ø 400 mm/16" Order No.: A1841010

Max. cutting capacity Ø 150 mm

COOLING AND FILTER SYSTEMS

Equipment 1 **Recirculation cooling unit**

400 V/50 Hz (3Ph/PE)

Order No.: A1841011

480 V/60 Hz (3Ph/PE)

Order No.: A1841012

220 V/60 Hz (3Ph/PE)

Order No.: A1841013

Tank	appr. 130 ltr.
Pump	appr. 100 ltr./min
WxHxD	755x663x921 mm

» integrated

» inlet sieve with filter bag (see consumables)





Equipment 2 Belt filter system 285



400 V/50 Hz (3Ph/PE)

Order No.: A6501000

480 V/60 Hz (3Ph/PE) Order No.: A6501002

220 V/60 Hz (3Ph/PE) Order No.: A6501001

Tank	285 Llr.	
Filtering capacity	100 tr./min (refering emulsion)	
Pump	100 ltr./min	
Filter area	0.85 m ²	
Filter fleece width	710 mm	
WxHxD	929x790x1745 mm	
Weight approx.	120 kg	
» inkc. filter roll		

Connection set 255/265 Order No.: Z6501003 » for belt filter system please order connection set



LASER ALIGNMENT AID

Order No.: A1841014 » laser line to visualize the cutting line » laser class 2 EN/IEC 60825-11



on request

ROTATION TOOL

- » tool with vertical rotary feed, parallel to wheel
- » angle input via software control

CENTRIFUGAL SEPARATOR $(\mathbf{+})$

- » to remove coolant mist
- » increases quality of illumination
- » exhauster power 425 or 500 m³/h depends on power supply

400 V/50 Hz (3Ph/PE)

Order No.: A1841015

480 V/60 Hz (3Ph/PE)

Order No.: A1841016

220 V/60 Hz (3Ph/PE) Order No.: A1841017



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OPTION



PULSED CLAMPING SYSTEM FOR BRILLANT 255/265



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- » parallel, continuous serial cuts of 5–130 mm width
- » clamping and adjusting of sheet material up to 10 mm thickness in Z-direction
- » max. material width (cutting length) 300 mm with cut-off wheel Ø 350 mm

Manual

Order No.: Z1841010 » for manual Z-axis Automatic Order No.: Z1841011 » for automatic Z-axis

SPECIFICATIONS

Max. cutting capacity Cut-off wheel Arbour size Vertical movement	 Ø 150 mm (depends on cut-off wheel) 1 Ø 350 mm 2 Ø 400 mm Ø 32 mm 170 mm (depends on cut-off wheel) 	Motor cut-off wheel Connected load Power supply	7 kW, S1-mode 12.5 kVA 1 fixed speed1950 rpm 1 400 V/50 Hz (3Ph/N/PE) 2 480 V/60 Hz (3Ph/PE) 3 220 V/60 Hz (3/PE)
Horizontal movement Feed rate Table WxD T-slot	345 mm 0.05-3 mm/sec 1 550x375 mm (without Z-axis) 2 3 420x375 mm (with Z-axis) 12 mm	Motor cut-off wheel Connected load Power supply MWxHxD approx.	8 kW, s1-mode 18 kVA 2 variable speed 1000-2700 rpm 1 400 V/50 Hz (3Ph/N/PE) 2 480 V/60 Hz (3Ph/PE) 3 220 V/60 Hz (3Ph/PE) 1100x1600x930 mm
-	1100	Weight approx.	450 kg (depends on equipment)
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	780		955
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