

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 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.











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.

To reduce times for setting up, all axes can



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.

PROGRAM CYCLE

JOYSTICK CONTROL

be controlled with a joystick.

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.

CUTTING FORCE DEPENDANT 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.

LASER ALIGNMENT

parallel cuts.

PRECISION CROSS FEED

The Z-axis is integrated in the table. This

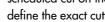
same level. The automatic cross feed with

allows keeping the cutting height at the

serial cutting function produces precise

SAFETY

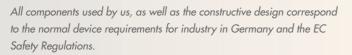
Integrated safety protection only allows the automatic doors to be opened when the cutting wheel has stopped rotating.



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







The units are finished in service-friendly modular construction.

1.30

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BASIC MODULE I







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
- » Optimal cutting chamber illumination with LED
- » Solid aluminium construction, powder coated

EQUIPMENT

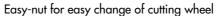
POWER SUPPLY (select equipment)

Equipment 1 Equipment 2 Equipment 3

Fixed speed 1950 rpm 480 V/60 Hz (3/PE) 220 V/60 Hz (3/PE) 400 V/50 Hz (3/N/PE) Order No.: A1841000 Order No.: A1841001 Order No.: A1841002

Variable speed 1000-2700 rpm

480 V/60 Hz (3/PE) 400 V/50 Hz (3/N/PE) 220 V/60 Hz (3/PE) Order No.: A1841003 Order No.: A1841005 Order No.: A1841004





Wear ring



1.31

EQUIPMENT

TABLE DRIVE (select equipment)

Equipment 1

without Z-axis

Order No.: A1841008

Equipment 2

Z-axis manual (handle)

Order No.: A1841006

» Made of stainless steel

» Z-axis travel 150 mm

» Precision 0.1 mm

Equipment 3

Z-axis automatic

Order No.: A1841007

» Made of stainless steel» Z-axis travel150 mm

» Precision 0.01 mm

WHEEL GUARD (select equipment)

Equipment 1

Cut-off wheel Ø 350 mm/14"

Order No.: A1841009

» Max. cutting capacity Ø 130 mm

Equipment 2

Cut-off wheel Ø 400 mm/16"

Order No.: A1841010

» Max. cutting capacity Ø 150 mm

COOLING AND FILTER SYSTEMS (select equipment)

Equipment 1

Recirculation cooling unit

400 V/50 Hz (3/PE)

Order No.: A1841011

480 V/60 Hz (3/PE)

Order No.: A1841012

220 V/60 Hz (3/PE) Order No.: A1841013

» Integrated

» Tank approx. 130 Ltr.

» Pump approx. 100 Ltr./min

» Inlet sieve with filter bag

(see consumables)



Equipment 2

Belt filter system 285

400 V/50 Hz (3/PE)

Order No.: A6501000

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

220 V/60 Hz (3/PE)

Order No.: A6501001

» Incl. filter roll

» Tank 285 Ltr.

» Filtering capacity 100 Ltr./min

(refering emulsion)

» Pump 100 Ltr./min

» Filter area 0,85 m²

» Filter fleece width 710 mm

» WxHxD 850x790x1656 mm

» Weight approx. 120 kg

Connection set Brillant 255/265

Order No.: Z6501003

» For belt filter system please order

connection set



OPTION I



LASER ALIGNMENT AID

Order No.: A1841014

- » Laser line to visualize the cutting line
- » Laser class 2 EN/IEC 60825-11



CENTRIFUGAL SERARATOR

400 V/50 Hz (3/PE) Order No.: A1841015 480 V/60 Hz (3/PE)

Order No.: A1841016 220 V/60 Hz (3/PE) Order No.: A1841017

- » To remove coolant mist
- » Increases quality of illumination
- » exhauster power 425 or 500 m³/h depending on power supply



ROTATION TOOL

on request

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



PULSED CLAMPING SYSTEM FOR BRILLANT 255/265

- » 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

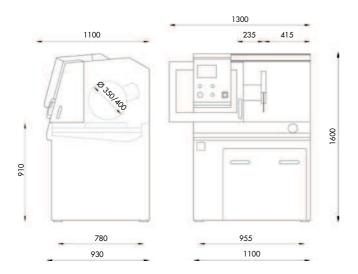
manual pulsed clamping system

Order No.: Z1841010 » for manual Z-axis

automatic pulsed clamping system

Order No.: Z1841011 » for automatic Z-axis

SPECIFICATIONS ■



Max. cutting capacity	Ø 13	50 mm (depends on cut-off wheel)
Cut-off wheel	1 5	Ø 350 mm
	2 9	Ø 400 mm
Arbour size	Ø 32	2 mm
Vertical movement	170	mm (depends on cut-off wheel)
Horizontal movement	345	mm
Table WxD	1 3	550 x 375 mm (without Z-axis)
	3	420x 375 mm (withZ-axis)
T-slot	12 m	nm
Connected load	12.5	kVA
Power supply	1 f	ixed speed 1950 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	18 k	VA
Power supply	2 \	variable speed 1000-2700 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. 1100 x 1600 x 930 mm	
Weight	approx. 450 kg (depends on equipment)	