

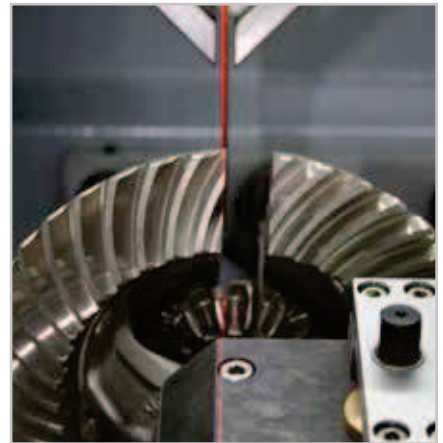


The universal wet abrasive cut off machine **BRILLIANT 255** with manual travel and fine dynamic cutting allows precise, soft touch cutting with 2 axes in arbitrary directions (Y/X axis) and can be equipped with a manual Z-axis for parallel serial cuts (option). Side openings allow cutting continuous long parts in the spacious cutting chamber of this solid and powder-coated aluminium construction.

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.



**MANUAL VERTICAL MOVEMENT**

Cutting force can be regulated precisely and with little effort by using the wheel spider. The wheel height can be locked at each point of the wheel spider rotation.

**MANUAL HORIZONTAL MOVEMENT**

The manual horizontal movement allows cutting long parts longitudinally.

**MANUAL CROSS FEED**

The Z-axis is integrated in the table, and a measured parallel slice can be set using the hand wheel with scale. The height of the cutting wheel does not need to be altered when setting the Z-axis dimension.

**LASER ALIGNMENT**



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

**SAFETY**

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





## BASIC MODULE



## BRILLANT 255

Order No.: M1841001

- » Manual horizontal movement with handle
- » Manual, fine dynamic cut-off with lateral wheel spider
- » Spacious cutting chamber with large table
- » Openings on the left and right for continuous long parts
- » Sliding door
- » Current safety standard with door interlock (safety protection)
- » Cutting wheel arbour with wear ring
- » 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

**Fixed speed 1950 rpm**  
400 V/50 Hz (3/N/PE)  
Order No.: A1841020

Equipment 2

480 V/60 Hz (3/PE)  
Order No.: A1841021

Equipment 3

220 V/60 Hz (3/PE)  
Order No.: A1841022

## TABLE DRIVE (select equipment)

Equipment 1

**without Z-axis**  
Order No.: A1841023  
» Made of stainless steel

Equipment 2

**manual Z-axis (handle)**  
Order No.: A1841024  
» Made of stainless steel  
» Z-axis travel 150 mm  
» Precision 0.1 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



Easy-nut for easy change of cutting wheel



Wear ring



**EQUIPMENT**

**COOLING AND FILTER SYSTEMS (select equipment)**

Equipment 1

**Recirculation cooling system**

400 V/50 Hz (3/PE)

Order No.: A1841011

480 V/60 Hz (3/PE)

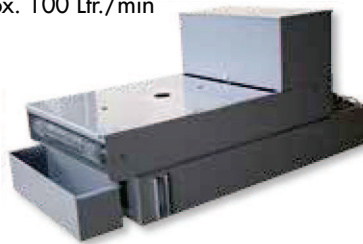
Order No.: A1841012

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 (referring emulsion)
- » Pump 100 Ltr./min
- » Filter area 0.85 m<sup>2</sup>
- » Filter fleece width 710 mm
- » Maße BxHxT 850x790x1656 mm
- » Weight approx. 120 kg

**Connection set Brillant 255/265**

Order No.: Z6501003

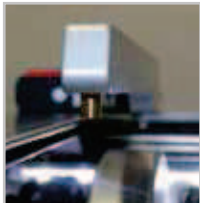
- » for belt filter system please order connection set

**OPTION**

**LASER ALIGNMENT AID**

Order No.: A1841032

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



**CENTRIFUGAL SEPARATOR**

400 V/50 Hz (3/PE)

Order No.: A1841029

480 V/60 Hz (3/PE)

Order No.: A1841030

220 V/60 Hz (3/PE)

Order No.: A1841031



- » To remove coolant mist
- » Increases quality of illumination
- » exhauster power 425 or 500 m<sup>3</sup>/h depending on power supply

**PULSED CLAMPING SYSTEM FOR BRILLANT 255/265**



- » Parallel, continuous serial cuts of 5–130 mm width
- » Clamping and adjusting of sheet material up to 20 mm thickness in Z-direction
- » Max. material width (cutting length) 300 mm

**manual pulsed clamping system**

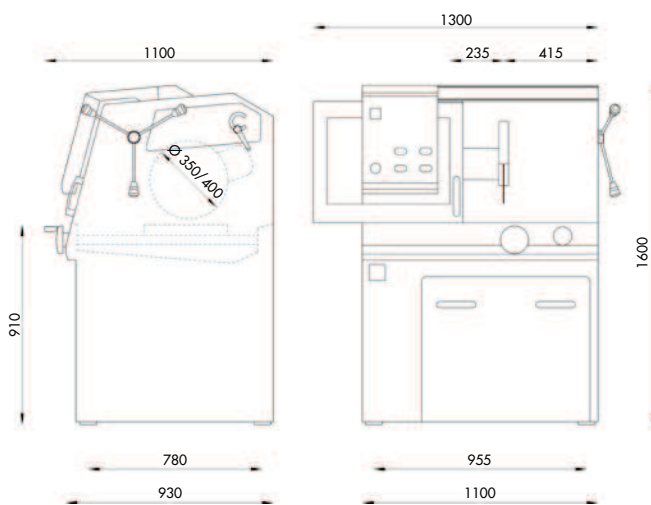
Order No.: Z1841010

- » for manual Z-axis





## SPECIFICATIONS



Max. cutting capacity	Ø 150 mm (depends on cut-off wheel)	
Cut-off wheel	1	Ø 350 mm
	2	Ø 400 mm
Arbour size	Ø 32 mm	
Vertical movement	170 mm (depends on cut-off wheel)	
Horizontal movement	365 mm	
Table WxD	1	550 x 375 mm (without z-axis)
	2	420 x 375 mm (with z-axis)
T-slot	12 mm	
Connected load	12.5 kVA	
Speed	fixed speed 1950 rpm	
	1	400 V/50 Hz (3/N/PE)
Power supply	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)	

