



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.



Option



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/N/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/N/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 m²
- » Filter fleece width 710 mm
- » Maße BxHxT 850x790x1656 mm
- » Weight approx. 120 kg

Connection set Brillant 255/265

Order No.: Z6501003

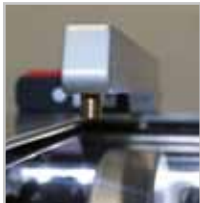
- » for belt filter system please order connection set

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/N/PE)

Order No.: A1841029

480 V/60 Hz (3/PE)

Order No.: A1841030

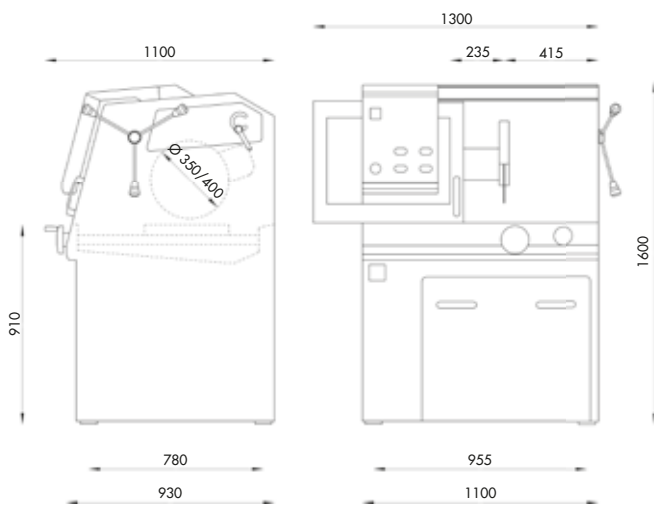
220 V/60 Hz (3/PE)

Order No.: A1841031



- » To remove coolant mist
- » Increases quality of illumination





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)	

