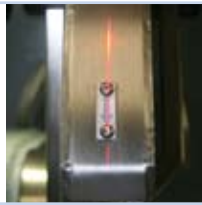




The Universal-Wet abrasive cut-off machine **Brillant 270** with automatic travel and cut-off enables exact, soft-touch cutting with 2 axes in arbitrary directions (Y/X-axis). The large number of menu options and control functions contribute to flexible and precise cutting. The built-in electronic control with its simple and clearly-defined touch-screen display enables easy compilation of automatic program sequences, their storage and call-up. The large cutting chamber of the robust powder-coated Aluminium construction is easily accessible through 2 sliding doors. Central greasing fitted as standard.



**AUTOMATIC PULSED CUTTING**

With the use of pulsed cutting, the cut-off wheel can cut itself free from impurities in the material during the cutting process and be cooled better.

**REGULATED TRAVEL AND CUT-OFF**

The speed of the controllable feeds can also be infinitely regulated during the cutting cycle.

**ELECTRONIC TRAVEL MEASUREMENT**

The exact path of the individual cutting axis and the reference point are selectable and the cutting parameters are displayed during the cutting cycle.

**CUTTING FORCE CONTROL**

The cutting force control prevents overheating of the material to be cut.

**LASER-ALIGNMENT**

An optional line laser helps to get an exact cut positioning by showing the direction of cut.

**SEGMENT-CUT AND SAW-CUT**

The Brillant 270 is equipped with 2 further cutting possibilities for especially soft-touch cutting. The saw-cut is extra gentle by its point cast contact. The segment-cut is well-suited for hard materials, as the cut is cooled better through changing parting planes.

**TOUCH-SCREEN CONTROL**

The multiple-axis universal control enables exact and gentle cutting with 2 axes in arbitrary directions. Operation via touch-screen is especially easy and fast. The control offers a wide range of basic menus for simple programming and free room for individual problem solutions. In addition, there are cutting data



suggestions to help and an error/fault analysis.

**CLAMPING AND FEED**

The generous construction of the cutting chamber and a large table with T-grooves provide plenty of room for many clamping possibilities also for overdimensional materials. The Brillant 270 can be further equipped with an electronic cross-feed (Z-axis) for cutting in series.

**CENTRAL GREASING**

Each greasing point is supplied with a pre-dosed amount of grease through an automatic pump.

**INDUSTRIAL STANDARD**

All components used by us, as well as the constructive design correspond to the normal device requirements for industry in Germany and the EC Safety Regulations.



Option



**BRILLANT 270**

Order No.: M1830000

- » Automatic horizontal and vertical movement
- » Automatic pulsed-, segment-, saw- and step-cutting
- » Cutting speed and force control
- » Computer control with industrial touch screen
- » Table made of stainless steel
- » Solid aluminium design, powder coated
- » Two sliding doors for lateral opening
- » Central greasing (6 bar compressed air required)
- » Incl. connection set, interior lights, flushing hose and Easy nut
- » Without clamping vices

**POWER SUPPLY** (select equipment)

Equipment 1

**Fixed speed 1860 rpm**

400 V / 50 Hz (3 Phase)

Order No.: A1830003

Equipment 2

480 V / 60 Hz (3 Phase)

Order No.: A1830004

Equipment 3

220 V / 60 Hz (3 Phase)

Order No.: A1830005

**Variable speed 1000-2700 rpm**

400 V / 50 Hz (3 Phase)

Order No.: A1830027

480 V / 60 Hz (3 Phase)

Order No.: A1830028

220 V / 60 Hz (3 Phase)

Order No.: A1830029

**TABLE DRIVE** (select equipment)

Equipment 1

**Table drive for x-axis**

Order No.: A1830019

- » Made of stainless steel

Equipment 2

**Table drive for x/z-axis**

Order No.: A1830002

- » Made of stainless steel
- » Z-axis travel 120 mm
- » Precision 0,01 mm



E-Lab ready



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

Equipment 1

**Recirculation cooling system**

400 V/50 Hz (3 Phase)

Order No.: A1830016

220 V/60 Hz (3 Phase)

Order No.: A1830030

480 V/60 Hz (3 Phase)

Order No.: A1830021



- » Integrated
- » Tank ca. 170 Ltr.
- » Pump ca. 100 Ltr./min
- » Inlet sieve with filter bag  
(see chapter 'consumables')

Equipment 2

**Belt filter system 165**

400 V/50 Hz (3 Phase)

Order No.: A1830010

220 V/60 Hz (3 Phase)

Order No.: A1830022

480 V/60 Hz (3 Phase)

Order No.: A1830023

- » Incl. one filter roll
- » Tank 165 Ltr.
- » Filtering capacity 100 Ltr./min (Water)
- » Pump 100 Ltr./min
- » WxHxD 550x700x1630mm
- » Weight 120 kg



For higher filtering requirements please consider the belt filter system 325 (see Brilliant 280/290).



OPTIONS



**LASER ALIGNMENT AID**

Order No.: A1830020  
 » Laser line to visualize the cutting line  
 » Laser class 2M EN 60825-1



**CENTRIFUGAL SEPARATOR**

400 V/50 Hz (3 Phase)  
 Order No.: A1830007  
 220 V/60 Hz (3 Phase)  
 Order No.: A1830031  
 480 V/60 Hz (3 Phase)  
 Order No.: A1830024

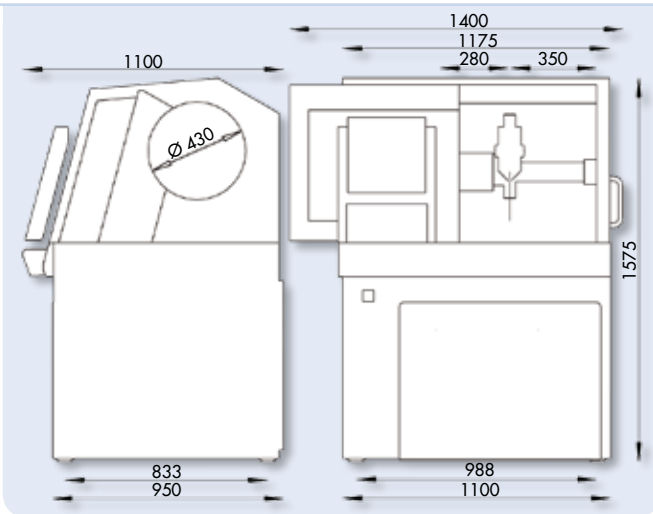
» To remove coolant mist  
 » Increases quality of illumination



**ADDITIONAL LAMP**

Order No.: A1830006

SPECIFICATIONS



Max cutting capacity	Ø 155 mm
Cut-off wheel	Ø 432 mm/17"
Arbour size	Ø 32 mm
Vertical movement	200 mm
Horizontal movement	360 mm
Table WxD	500 x 425 mm, t-slot 12 mm
Motor	12 kW
Power supply	1 Fixed speed 1860 rpm
	1 400 V/50 Hz (3 Phase)
	2 480 V/60 Hz (3 Phase)
	3 220 V/60 Hz (3 Phase)
	2 variable speed 1000-2700 rpm
	1 400 V/50 Hz (3 Phase)
	2 480 V/60 Hz (3 Phase)
	3 220 V/60 Hz (3 Phase)
WxHxD	1175 x 1575 x 1100 mm
Weight	750 kg