



## BRILLANT 230

The BRILLANT 230 is a wet abrasive cut-off machine with fine dynamic, manual wheel movement into samples up to  $\varnothing$  110 mm.

The spacious cutting chamber allows various clamping variations. The solid aluminium design comes with openings on the right and left hand side for cutting continuous long parts.

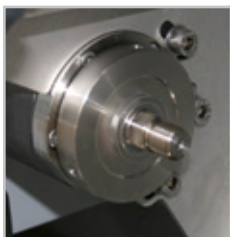


### FINE DYNAMIC CUT-OFF

With the manual cutting movement, the cutting force is regulated through a set of gears. The cut is thereby jerk-free and more precise.

### MANUAL HORIZONTAL MOVEMENT

The manual horizontal movement allows cutting long parts longitudinally and easy positioning of the sample below the cut-off wheel.



### INNOVATIVE DETAILS

The sliding front door and the side door with safety interlock allow easy and optimal access to the cutter chamber. Further, the LED cutting chamber illumination is energy-saving. The arbour is protected against wearing by an interchangeable ring.

### Z-AXIS

The manual Z-axis can be adjusted with 0.1 mm precision for parallel cuts.

## BASIC MODULE



## BRILLANT 230



Order No.: M1820000

- » precise manual vertical movement with angle adjustable lever
- » table adjustable in x-direction
- » sliding door and side door with door interlock
- » T-slot table, stainless steel
- » opening on left- and righthand side for continuous long materials
- » chamber illumination with LED, arbour with protector
- » Easy-nut – for easy change of cut-off wheel
- » solid aluminium design, powder coated

## EQUIPMENT

## POWER SUPPLY



Equipment 1

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

Order No.: A1820015

Equipment 2

480 V/60 Hz (3Ph/PE)

Order No.: A1820016

Equipment 3

220 V/60 Hz (3Ph/PE)

Order No.: A1820017

## WHEEL GUARD



Equipment 1

**Cut-off wheel Ø 254/10"**

Order No.: A1820013

Max. cutting capacity Ø 85 mm

Equipment 2

**Cut-off wheel Ø 305/12"**

Order No.: A1820014

Max. cutting capacity Ø 110 mm



Manual Z-axis

## TABLE DRIVE



Equipment 1

**without** (without X-axis, without Z-axis)

Order No.: A1820028

Equipment 3

**Z-axis manual** (without X-axis)

Order No.: A1820030

Equipment 2

**X-axis manual** (without Z-axis)

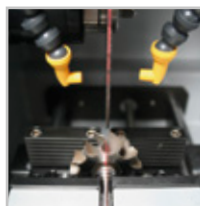
Order No.: A1820029

Equipment 4

**X-axis manual/Z-axis manual**

Order No.: A1820031

## OPTION



## LASER ALIGNMENT AID



Order No.: A1820027

- » laser line to visualize the cutting line
- » laser class 1



## ACCESSORIES

## RECIRCULATION COOLING SYSTEM



- » 2-chamber-pvc-compartment 45 ltr.
- » inlet sieve and filter bag

- » incl. connection set
- » controlled by cut-off machine

**Mobile with insertion mechanism for System Lab cabinets**

400 V/50 Hz (3Ph/PE)

Order No.: A5800484

480 V/60 Hz (3Ph/PE)

Order No.: A5800485

220 V/60 Hz (3Ph/PE)

Order No.: A5800486

WxHxD

366x540(640)  
x610 mm**Mobile**

400 V/50 Hz (3Ph/PE)

Order No.: A5800487

480 V/60 Hz (3Ph/PE)

Order No.: A5800488

220 V/60 Hz (3Ph/PE)

Order No.: A5800489

WxHxD

366x550x600mm

## BELT FILTER SYSTEM 130

**Belt filter system 130**

400 V/50 Hz (3Ph/PE)

Order No.: A6501009

480 V/60 Hz (3Ph/PE)

Order No.: A6501011

220 V/60 Hz (3Ph/PE)

Order No.: A6501010

**Connection set 230/250**

Order No.: Z6501004

- » for belt filter system please order connection set

- » incl. filter roll

|                 |                                     |
|-----------------|-------------------------------------|
| Tank            | 130 ltr.                            |
| Filter capacity | 30 Ltr./min<br>(referring emulsion) |
| Pump            | 15 ltr./min                         |
| WxHxD           | 607x632x1308 mm                     |
| Weight ~        | 90 kg                               |



## CENTRIFUGAL SEPARATOR



- » to remove coolant mist
- » increases quality of illumination
- » exhauster power 180 or 215 m<sup>3</sup>/h depends on power supply

400 V/50 Hz (3Ph/PE)

Order No.: Z1820009

480 V/60 Hz (3Ph/PE)

Order No.: Z1820012

220 V/60 Hz (3Ph/PE)

Order No.: Z1820011



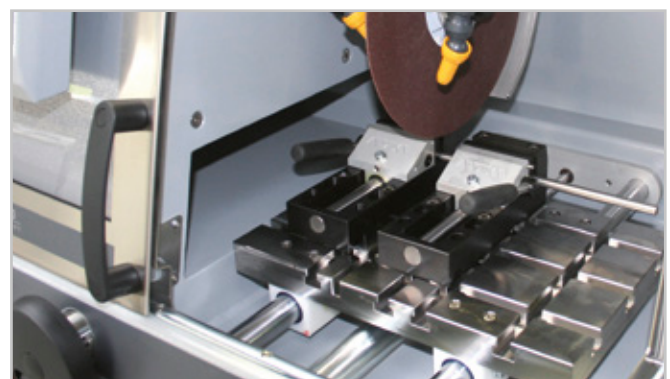
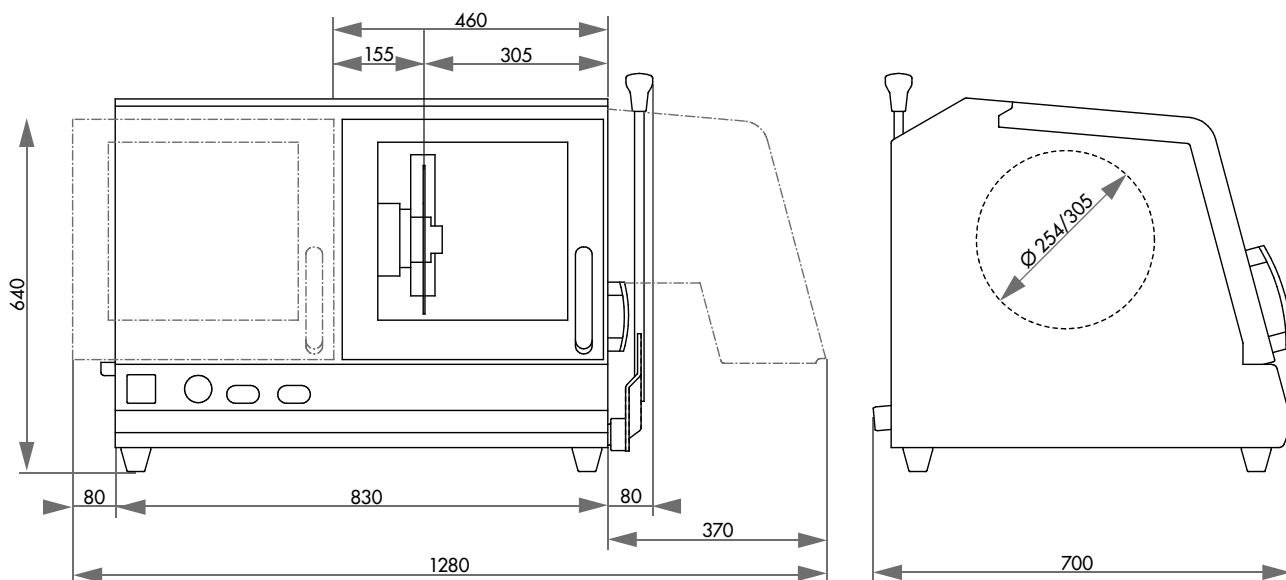
## SPECIFICATIONS

|                       |         |                                   |
|-----------------------|---------|-----------------------------------|
| Max. cutting capacity | 1       | Ø 85 mm (Ø 254 mm cut-off wheel)  |
|                       | 2       | Ø 110 mm (Ø 305 mm cut-off wheel) |
| Cut-off wheel         | 1       | Ø 254 mm/10"                      |
|                       | 2       | Ø 305 mm/12"                      |
| Arbour size           | Ø 32 mm |                                   |
| Vertical movement     | 125 mm  |                                   |

|                     |               |                        |
|---------------------|---------------|------------------------|
| Speed               | 2750 rpm      |                        |
| Motor cut-off wheel | 4 kW, S1-mode |                        |
| Connected load      | 6 kVA         |                        |
| Power supply        | 1             | 400 V/50 Hz (3Ph/N/PE) |
|                     | 2             | 480 V/60 Hz (3Ph/PE)   |
|                     | 3             | 220 V/60 Hz (3Ph/PE)   |

|           |       |                             |
|-----------|-------|-----------------------------|
| Table WxD | 1     | 380x250 mm (without Z-axis) |
|           | 2     | 300x250 mm (with Z-axis)    |
| T-slot    | 12 mm |                             |

|          |                    |  |
|----------|--------------------|--|
| WxD      | 830 x 640 x 670 mm |  |
| Weight ~ | 130 kg             |  |



Clamping example