

**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.

The universal wet abrasive cut off machine Brillant 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 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.

SAFETY

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

**LASER ALIGNMENT**

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



BASIC MODULE

Brillant 255



- | manual horizontal movement with handle
- | manual, fine dynamic cut-off with lateral wheel spider
- | spacious cutting chamber with large T-slot 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
- | optimum cutting chamber illumination with LED
- | solid aluminium construction, powder coated
- | Easy-nut for quick and easy exchange of cutting wheels

Order No.: M1841001

EQUIPMENT

POWER SUPPLY

Equipment 1

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

Order No.: A1841020

Equipment 2

480 V/60 Hz (3Ph/PE)

Order No.: A1841021

Equipment 3

220 V/60 Hz (3Ph/PE)

Order No.: A1841022

TABLE DRIVE

Equipment 1

Without Z-axis

- | made of stainless steel

Order No.: A1841023

Equipment 2

Z-axis m manual (handle)

- | made of stainless steel

Travel Z-axis 150 mm

Precision. 0.1 mm

Order No.: A1841024

WHEEL GUARD

Equipment 1

Cut-off wheel Ø 356 mm/14"

Max. cutting capacity Ø 130 mm

Order No.: A1841009

Equipment 2

Cut-off wheel Ø 406 mm/16"

Max. cutting capacity Ø 150 mm

Order No.: A1841010

EQUIPMENT
COOLING AND FILTER SYSTEMS
Equipment 1
Recirculation cooling systems


- | integrated
- | inlet sieve with filter bag (see consumables)

Tank	~ 130 ltr.
Pump	~ 100 ltr./min
WxHxD	755 x 663 x 921 mm
400 V/50 Hz (3Ph/PE)	Order No.: A1841011
480 V/60 Hz (3Ph/PE)	Order No.: A1841012
220 V/60 Hz (3Ph/PE)	Order No.: A1841013

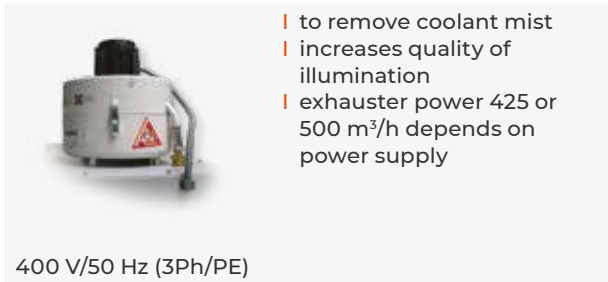
Equipment 2
Belt filter system 285


- | incl. filter roll

Tank	285 ltr.
Filtering capacity	100 ltr./min (referring emulsion)
Pump	100 ltr./min
Filter area	0.85 m ²
Filter fleece width	710 mm
WxHxD	929 x 790 x 1745 mm
Weight	~ 120 kg
400 V/50 Hz (3Ph/PE)	Order No.: A6501000
480 V/60 Hz (3Ph/PE)	Order No.: A6501002
220 V/60 Hz (3Ph/PE)	Order No.: A6501001

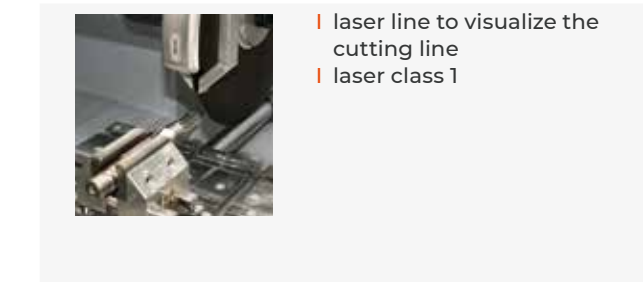
Connection set 285

- | for belt filter system please order connection set

Order No.: Z6501003
OPTION
CENTRIFUGAL SEPARATOR


- | to remove coolant mist
- | increases quality of illumination
- | exhauster power 425 or 500 m³/h depends on power supply

400 V/50 Hz (3Ph/PE)	Order No.: A1841029
480 V/60 Hz (3Ph/PE)	Order No.: A1841030
220 V/60 Hz (3Ph/PE)	Order No.: A1841031

LASER ALIGNMENT AID


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

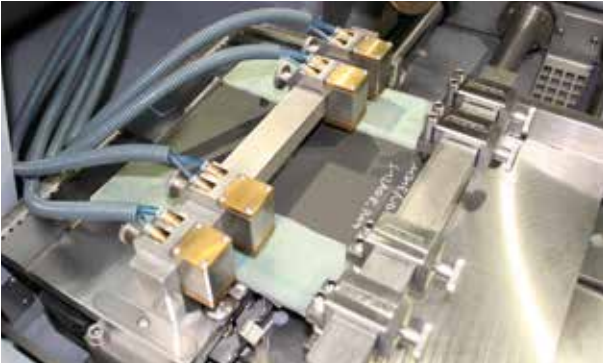
Order No.: A1841032

OPTION
FOR Brillant 255 | Qcut 400 A
PULSED CLAMPING SYSTEM

- | 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 with cut-off wheel \varnothing 350 mm

Manual

- | for manual Z-axis

Order No.: Z1841010

ACCESSORIES
BASIC SET BRILLANT 255
Order No.: Z1841020
SPECIFICATIONS

Max. cutting capacity	\varnothing 150 mm (depends on cut-off wheel)
Cut-off wheel	1 \varnothing 356/14" mm 2 \varnothing 406/16" mm
Arbour size	\varnothing 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
Motor cut-off wheel	7 kW, S1-mode
Connected load	12.5 kVA
Speed	fixed speed 1950 rpm
Power supply	1 400 V/50 Hz (3Ph/N/PE) 2 480 V/60 Hz (3Ph/PE) 3 220 V/60 Hz (3Ph/PE)
WxHxD	~ 1100 x 1600 x 930 mm
Weight	~ 450 kg (depends on equipment)

