

TECHNICAL FEATURES

EVO 400   400+   450			
	EVO 400	EVO 400+	EVO 450
Reference	50400	50430	50450
HOOD			
Metal frames & PETG	✓	✓	✓
Motorized opening and closing	✓	✓	✓
Safety : locked during motor rotation	✓	✓	✓
Fumes extraction outlet	76 mm	76 mm	76 mm
MOTORIZATION - POWER SUPPLY			
Nominal power S1	7500 W	9000 W	11000 W
Nominal power S3	11000 W	15000 W	18500 W
Power supply	380 V / Three-phases / 50 Hz	380 V / Three-phases / 50 Hz	380 V / Three-phases / 50 Hz
Control of the motor by frequency control	✓	✓	✓
CUT-OFF WHEELS			
Type of cutting disk	Resinoid & diamond	Resinoid & diamond	Resinoid & diamond
Size of cutting disk	up to 400 mm	up to 400 mm	up to 400 mm
Rotation speed	1000 to 3000 RPM	1000 to 3000 RPM	1000 to 3000 RPM
Shaft diameter	32 mm	32 mm	32 mm
CONTROL			
Control interface by colour touchscreen	✓	✓	✓
Code protection	Can be activated	Can be activated	Can be activated
Programmable up to 6 password-protected programmes	✓	✓	✓
Communication interface / Machine control	Modbus	Modbus	Modbus
CUTTING			
Cutting method : Assisted, automatic, programmed, by impulse	✓	✓	✓
Cutting regulation : movement of the arm according to motor load	✓	✓	✓
Axis Y travel	Travel 300mm* (optional)	Travel 300mm* (optional)	Travel 300mm* (optional)
Axis X travel	Travel 200mm* (optional)	Travel 200mm* (optional)	Travel 200mm* (optional)
Axis Z travel	320 mm	320 mm	320 mm
Standart table	Left table 300 x 600 mm Right table 300 x 600 mm	Left table 300 x 600 mm Right table 300 x 600 mm	Left table 300 x 600 mm Right table 300 x 600 mm
With X axis option - Manual transverse movement table	Left table 300 x 600 mm Right table 250 x 600 mm	Left table 300 x 600 mm Right table 250 x 600 mm	Left table 300 x 600 mm Right table 250 x 600 mm
With Y axis option - Manual longitudinal movement table	Left table 300 x 300 mm Right table 300 x 300 mm	Left table 300 x 300 mm Right table 300 x 300 mm	Left table 300 x 300 mm Right table 300 x 300 mm
Positioning laser	Option	Option	Option
Distance between cut-off wheel and table	190 mm	190 mm	165 mm
Treated aluminium table, interchangeable stainless steel palettes	✓	✓	✓
Holders : slotted T table (12mm)	accepting all clamping systems available on the market	accepting all clamping systems available on the market	accepting all clamping systems available on the market
LUBRICATION - COOLING			
Pump & tank : external - 200L	✓	✓	✓
Type of lubrication	Pump	Pump	Pump
Method of directing pumped coolant	Cutting disk housing and 2 mobile sprinklers on the table	Cutting disk housing and 2 mobile sprinklers on the table	Cutting disk housing and 2 mobile sprinklers on the table
Type of filtration : 100 µm washable textile filter	✓	✓	✓
ERGONOMICS			
Internal lighting	LED	LED	LED
Spray nozzle for cleaning integrated	✓	✓	✓

\* Customisable tables and stroke lengths



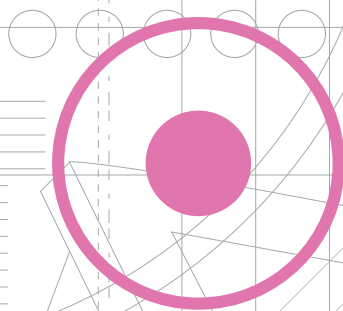
See the video link !

ACCESSORIES

STAINLESS STEEL VICES		
<b>QUICK CLAMPING VICES</b>		
<b>LEFT</b> Height 45 mm Ref. 50905		
<b>RIGHT</b> Height 45 mm Ref. 50909		
<b>LEFT AND RIGHT</b> Height 45 mm Ref. 50906		
<b>Height 70 mm</b> Ref. 50510		
<b>Height 90 mm</b> Ref. 50911		
<b>SCREW CLAMPING VICES</b>		
<b>LEFT</b> Height 45 mm Ref. 50901		
<b>RIGHT</b> Height 45 mm Ref. 50903		
<b>LEFT AND RIGHT</b> Height 45 mm Ref. 50902		
KOPAL CLAMPING SYSTEM		
<b>CHAIN CLAMP</b>	<b>KOPAL HOLDING</b>	<b>BOX OF KOPAL HOLDERS</b>
Ref. 50617	Ref. 50616	Ref. 50613
TABLES		
<b>MANUAL TRANSVERSE TABLE (X AXIS)</b>	<b>MANUAL LONGITUDINAL TABLE (Y AXIS)</b>	<b>MOTORIZED LONGITUDINAL TABLE (Y AXIS)</b>
Ref. 50410	Ref. 50411	Ref. 50409
OTHER ACCESSORIES		
<b>KIT OF V POSITIONNING SUPPORTS</b>	<b>POSITIONING LASER</b>	
Ref. 50370	Ref. 50412	

CONSUMABLES

REF.	DESIGNATION	DIAMETER	MATERIALS	HARDNESS
01029	Type A - Abrasive Al <sub>2</sub> O <sub>3</sub> (ferrous materials)	Ø 400 x 3 x 32 mm	Low carbon, mild and extra mild	100 - 350 Hv
01038		Ø 450 x 3,5 x 32 mm		
01027	Type AO - Abrasive Al <sub>2</sub> O <sub>3</sub> (ferrous materials)	Ø 400 x 3 x 32 mm	Treated steels, stainless steels, refractory metals, alloyed cast irons	300 - 500 Hv
01036		Ø 450 x 3,5 x 32 mm		
01034	Type S - Abrasive Al <sub>2</sub> O <sub>3</sub> (ferrous materials)	Ø 400 x 3 x 32 mm	Treated steels, with fragile coatings, difficult materials	450 - 700 Hv
01039		Ø 450 x 3,5 x 32 mm		
01028	Type MNF - Abrasive SiC (non-ferrous materials)	Ø 400 x 3 x 32 mm	Aluminium, copper and alloys, non ferrous metals, titanium and alloys	30 - 350 Hv
01037		Ø 450 x 3,5 x 32 mm		
01047	Type T - Abrasive SiC (non-ferrous materials)	Ø 400 x 3 x 32 mm	Titanium, titanium alloys, non ferrous metals	50 - 400 Hv
01048		Ø 450 x 3,5 x 32 mm		



EVO  
400 | 400+ | 450

CUTTING

EVO  
400 | Ref. 50400  
400+ | Ref. 50430  
450 | Ref. 50450

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CUTTING

MOUNTING

POLISHING

HARDNESS & MICROSCOPY



# EVO 400 | 400+ | 450

## LARGE SIZE CUTTING MACHINE

These cutting machines are powerful, robust and very spacious. They make it possible to cut the most resistant materials and its tables can bear the weight of parts over 200kg. Adapted for workshop use, they are very easy to use and has three cutting modes: assisted, automatic and programmable (to ensure cut repeatability).

- POWERFUL
- PRECISE
- SPACIOUS

### Triple lubrication nozzle

High cooling capacities mean that you get high cutting speeds without the risk of burns.

### Cutting wheel locking system

Easy installation of the cutting disk.



### Easy maintenance

Easy maintenance and cleaning thanks to its interior design and its integrated spray nozzle.

### High capacity tank

Lubrication system : 200L



### LED lighting

Transparent hood and interior LED lighting provide great visibility.



### Motorized hood

Absolute safety: open hood, both of the operator's hands are needed to move the motorized axes.



### Colour touchscreen

Intuitive multilingual user interface.



### Joystick control

Z axis motorized  
Travel : 320 mm



### Positioning laser (optional)

Fast and precise positioning of the part to be cut.



### CUTTING ENVELOPE \*

<b>EVO 400   400+</b>	<b>EVO 450</b>
Ø 125 mm	Ø 150 mm
70 x 270 mm	70 x 344 mm
190 mm	165 mm
* This illustration of the cutting envelope is to show the maximum theoretical capacity only. The actual capacity may be increased, depending on sample material, cutting frequency and selected flanges.	

### TABLES

#### LARGE WORKING SPACE

- Equipped with a 600 x 600 mm table, it can cope with very large parts weighing up to 200kg.
- Possibility to put the part by lifting means.
- The T-slotted multipurpose deck (12mm) can adapt to all clamping system.



### OPTIONAL



**Manual TRANSVERSE TABLE (X axis)**  
Travel : 200 mm  
Allows easy side adjustment of the part and cutting of parallel sections.



**Manual LONGITUDINAL TABLE (Y axis)**  
Travel : 300 mm  
Increases cutting capacity.



**Motorized LONGITUDINAL TABLE (Y axis)**  
Travel : 300 mm  
Increases cutting capacity.

## EVO RANGE

400 | 400+ | 450

### POWERFUL MOTOR

Powerful motor boosted by a frequency controller. It allows tougher materials to be cut. Grinder rotation speed remains constant.

#### EVO 400

Ref. 50400



#### MOTOR POWER

Power S1 : 7500 W  
Power S3 : 11000 W



Disk size up to 400 mm

#### EVO 400+

Ref. 50430



#### MOTOR POWER

Power S1 : 9000 W  
Power S3 : 15000 W



Disk size up to 400 mm

#### EVO 450

Ref. 50450



#### MOTOR POWER

Power S1 : 11000 W  
Power S3 : 18500 W



Disk size up to 450 mm

### 3 CUTTING MODES

#### POWER-ASSISTED

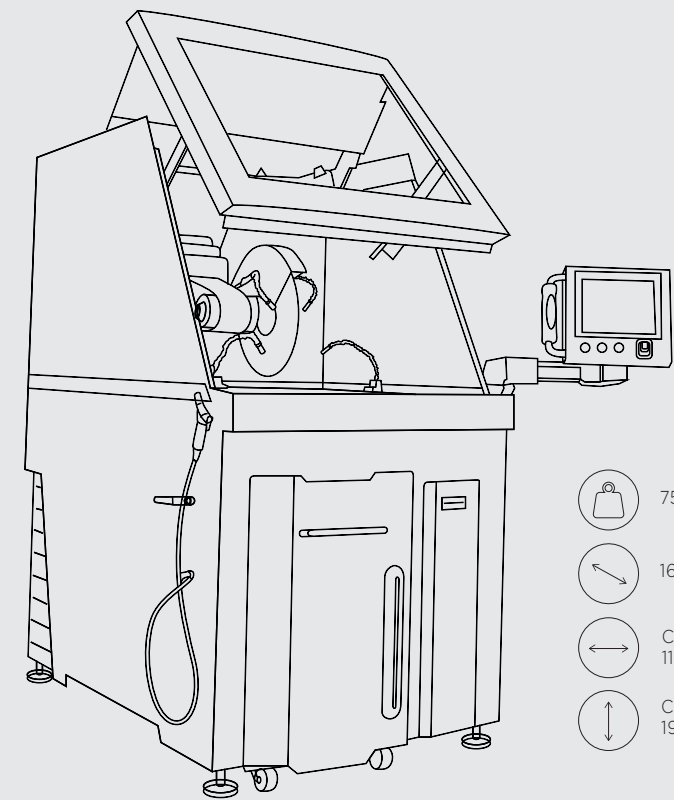
With the joystick, the user directly pilots the descent speed of the wheel up to a pre-programmed maximum value. It is a manual cutting, but effort-free.

#### AUTOMATIC

The machine cuts automatically according to parameters defined by the operator on the touchscreen. During the cutting operation, these parameters can be adjusted.

#### PROGRAMMABLE

The user cuts according to pre-programmed parameters, secured by password.



750 kg

1600 mm

Closed screen  
1140 mm

Closed hood  
1910 mm

Open screen  
1620 mm

Open hood  
2380 mm



#### AUTOMATIC PROGRESS REGULATION

In the 3 cutting modes, and if necessary, this automatic regulator limits the speed of movement of the motorized axis when cutting stresses are too great.

#### 2 advantages :

- To preserve the consumable
- To optimize the surface condition of the cut

#### PULSED SETTINGS

In automatic and programmable modes, during difficult cutting operations, it is possible to use the pulsed setting on axis Y or Z to improve part and disc cooling.