

EVO 500

THE HIGH-CAPACITY, HIGH-TECH CUTTING MACHINE



A cutting machine dedicated to large parts.
High-power, part detection, integrated force sensor...
EVO 500 lives up to your ambitions.





FUNCTIONS



REF. 50800

Width

Depth 1815mm

Height (hood closed) 1955mm

Height (hood open) 2430mm

Weight 1100kg

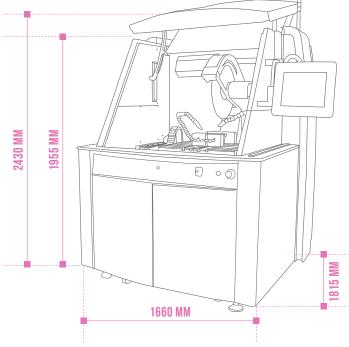
Conformity



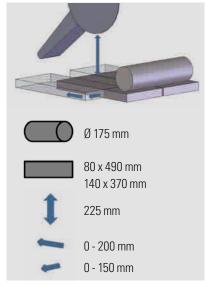
EVO 500 cutting machine

Ideal for **very large samples** (up to 240mm high and over 200kg), EVO 500 comes with **exceptional motor capacity** and an **automatic cleaning** system. The top-of-the-line EVO 500 comes standard with the most recent technology advances.









* This illustration of the cutting envelope of the EVO 400 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.

OPERATIONS

POWERFUL

Equipped with a very **powerful motor**, EVO 500 has a series of regulators that make cutting easier. Disc cutting speed remains constant. The frequency controller boosts the power of the motor, allowing tougher materials to be cut. Its **exceptional cooling capacities** mean high cutting speed without the risk of burns. Lubrication is delivered via two directional nozzles and numerous lubrication points in the grinder housing.

ERGONOMIC

EVO 500 is equipped with a **motorized hood, leaving** sufficient working space for parts to be loaded by lifting. The transparent cover and interior LED lighting provide great visibility. EVO 500 also has a **cutting wheel locking system,** meaning discs can be changed quickly and easily.

INTUITIVE

EVO 500 is intuitive with its multilingual color touchscreen interface.

PRECISE

The motor controlling the 3 axes (X, Y and Z), which is standard on EVO 500, allows precise positioning. The positioning of parts to be cut is quick and optimized, thanks to the positioning laser. **Dual lubrication system.**

FEATURE-PACKED

EVO 500 has innovations as standard, such as its **part-detection system** and an integrated force sensor. Axis **speed adjusts to the cutting stresses.**

EASY MAINTENANCE

Maintenance and cleaning of the EVO 500 are made easy by its **automatic cleaning system** that kicks in when the hood is down. A wash-shower is also included for manual cleaning with the hood up. The touchscreen has one USB sockets for maintenance operations.

OPERATOR SAFETY

Both of the operator's hands are needed with the hood up to move the motorized axes to ensure safety.

600 X 600MM TABLE

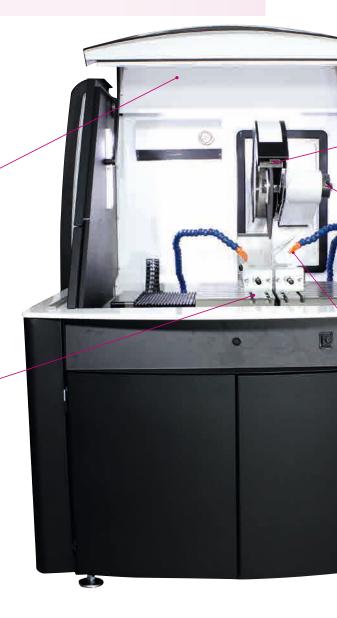
Equipped with a $600 \times 600 \text{mm}$ table, motorized on axes X and Y, it can cope with large parts weighing up to 200 kg. The T-slotted multipurpose deck (12mm) can adapt to all clamping systems available on the market.

CLEANING NOZZLE



600 X 600MM TABLE





CUTTING MODES

ASSISTED

In this mode, the user directly controls the selected cutting axis (Y or Z) using the joystick. It's manual but

AUTOMATIC

The machine automatically cuts according to parameters entered by the operator using the touchscreen. During cutting, these parameters can be changed. Thanks to the motorized transversal deck, the user can programme the machine to cut sections of fixed or variable thickness in series, taking the grinder thickness into account.

PROGRAMMABLE

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

Depending on the geometry of the part, it is possible to combine the Z and then Y axis or Y and then Z so as to increase cutting capacity.
This functionality can be used manually or automatically.



SETTINGS

PULSED

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

AUTOMATIC FEED

In the 3 cutting modes, and if necessary, the automatic feed regulator limits the speed of movement of the motorized axes when cutting stresses are too great. This regulation protects the consumable and optimizes the surface condition of the cut.



POSITIONING LASER



CUTTING WHEEL LOCKING SYSTEM

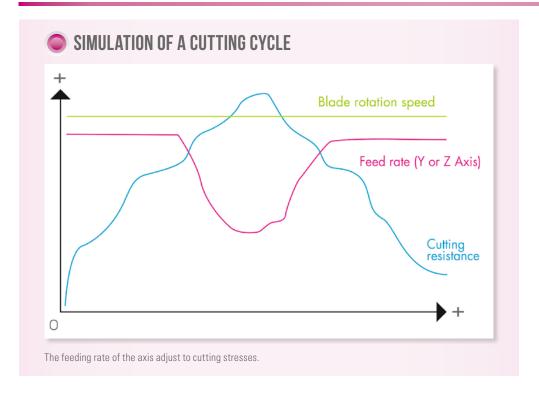


LUBRICATION NOZZLES



Dual Iubrication system

OPERATIONS



CHARACTERISTICS

HOOD			
Туре	Metal frames & PETG - Motorized opening and closing		
Safety	Locked during motor rotation		
Fumes extraction outlet	76mm		
MOTORIZATION-POWER SUPPLY			
Power	11000W / 21000W (inverter)		
Power supply	380V / 3 phases / 50 Hz		
Control of the motor	Frequency inverter		
CUT-OFF WHEELS			
Type of cut-off wheels	Resin bonded and metal bonded		
Wheel diameter	Up to 500mm		
Rotational speed	1,000 to 3,000		
Arbor size	32mm		
CONTROL	OLIMIN CONTRACTOR OF THE CONTR		
Interface	Color touchscreen		
Security Access	Can be activated		
Programmability	Up to 100 password-protected programs		
Communication interface / Machine control	CANOPEN		
CUTTING	GAINOLLIN		
	Assistad automatic programed by impulse		
Cutting method	Assisted, automatic, programed, by impulse Y axis table feed and Z axis wheel feed		
Work piece feed	From 0.01mm/sec to 3mm/sec		
Feed rate Cutting control	Feed speed according to the motor load. Movement of the arm according to the motor load. Feed of the table and movement of the arm according to the contact force cut off wheel / workpiece to cut. Rotation speed of the cut off wheel		
Axis Y travel	200mm*		
Axis X travel	150mm*		
Axis Z travel	400mm		
Serial cutting	2 modes: Y Axis cut and Z Axis cut		
Dimensions tables	Left table: 295 x 600mm-Right table: 295 x 600mm*		
Laser to locate the cut	Yes		
Distance between cut-off wheel and table	225mm		
Table type	Treated Aluminum table with interchangeable stainless steel "T" slot plates		
Holders	Slotted T table (12mm) accepting all clamping systems available on the market		
LUBRICATION - COOLING			
Pump and tank	External - 300L		
Type of lubrication	By Pump		
Position of lubrication / Cooling	2 ports in the wheel quard. 2 alignable nozzles mounted on the wheel assembly		
Filter	Washable 200 µm fabric filter		
Automatic fi Iling	Yes with control of levels		
ERGONOMICS			
Internal lighting	IFD		
Spray nozzle for cleaning	Integrated		
Automatic cleaning cycle	Yes		
CONFORMITY	162		
Conformity	EC		

ACCESSORIES

Vices and Holders

Left and right quick clamping vices Height 70mm

50911

Left and right quick clamping vices Height 90mm

Left and right quick clamping vices Height 45mm

50905

Left quick clamping vice Height 45mm







Left and right screw clamping vices

Right quick clamping vice Height 45mm

Box of Kopal holders

REF. 50905

50909

50617

50613

50616

50902

Chain clamp

Kopal holding

Height 45mm





50901

50903

50370

Height 45mm

Height 45mm

Left screw clamping vice

Right screw clamping vice

Other accessories

Kit of V positioning supports



REF. 50613



REF. 50510 - 50911

REF. 50616



REF. 50902



REF. 50901



REF. 50903



REF. 50370

CONSUMABLES

RESINOID CUT-OFF WHEELS

REF.	DESIGNATION	DIAMETER	HARDNESS	MATERIALS
01038	Ref. A abrasive Al ₂ O ₃ (ferrous materials)	Ø 450 x 3.5 x 32mm	- 100 - 350 Hv	Low carbon, mild and extra mild and treated steels with medium cross-sections
01062		Ø 500 x 3 x 32mm		
01036	Ref. AO abrasive Al ₂ O ₃ (ferrous materials)	Ø 450 x 3.5 x 32mm	300 - 500 Hv	Treated steels, stainless steels, refractory metals, alloyed cast irons
01063		Ø 500 x 3 x 32mm		
01037	Ref. MNF abrasive SiC (non ferrous materials)	Ø 450 x 3.5 x 32mm	- 30 - 350 Hv	Aluminium, copper and alloys, non ferrous metals, titanium and alloys
01066		Ø 500 x 3 x 32mm		
01048	Ref. T abrasive SiC (non ferrous materials)	Ø 450 x 3 x 32mm	- 50 - 400 Hv	Titanium, titanium alloys, non ferrous metals
01065		Ø 500 x 3 x 32mm		



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