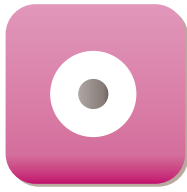


CUTTING



MOUNTING



POLISHING



HARDNESS TESTING



EVO 450

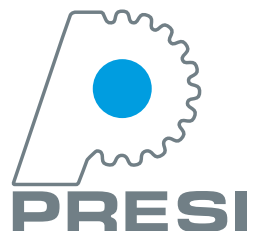
LARGE CAPACITY CUTTING MACHINE



A cutting machine dedicated
to oversized work-pieces.
A machine to exceed your expectations.



A STRONG WORLDWIDE PRESENCE THROUGH SUBSIDIARIES AND MORE THAN 35 DISTRIBUTORS



FUNCTIONALITIES

REF. 50800

Width
1 660mm

Depth
1 815mm

Height closed lid
1 955mm

Height opened lid
2 430mm

Weight
1 100kg

Conformity
EC

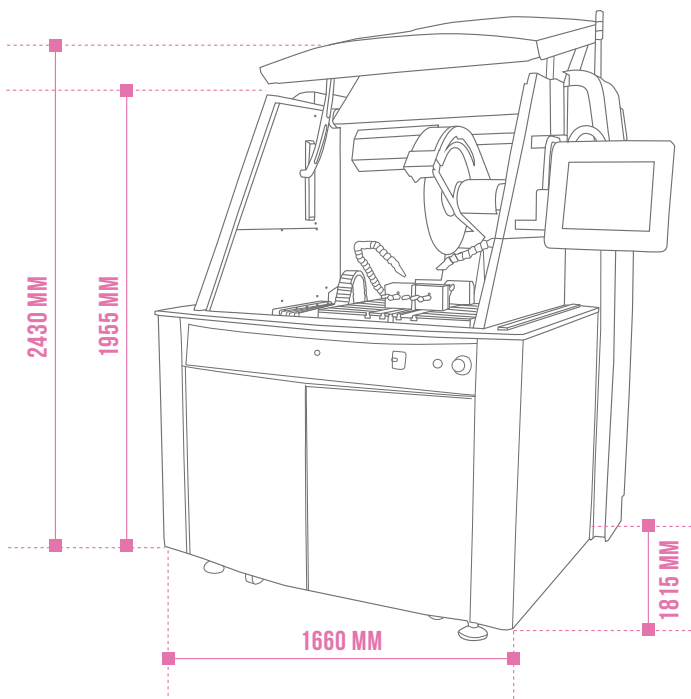


Top of the range, EVO 450 delivers all the benefits, options and innovations of the series such as detection of work piece and automated cleaning cycle. Cooling during the cut is assured with two alignable nozzles and numerous ports in the wheel guard.

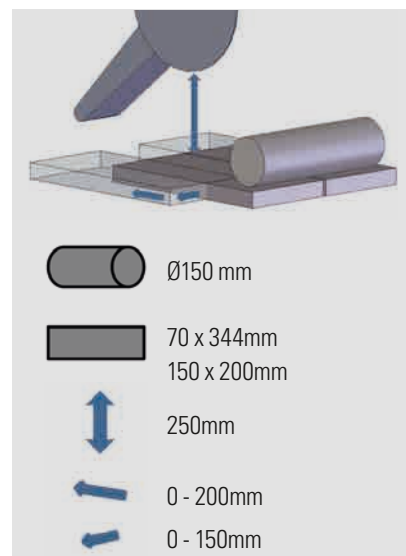
Cutting machine EVO 450

Equipped with the latest technologies EVO 450 can accept work pieces up to 200kg in weight and up to 250mm in height on its 600mm x 600mm cutting table. Perfect for cutting very large pieces, EVO 450 has the benefit of a very powerful cutting motor coupled with feed rate sensors and exceptional control software to ensure optimal operation.

Designed with even the smallest details in mind, the operator will benefit from a number of ease-of-use ergonomic features such as: motorised hood lift, automated wash down cycle for cleaning and easy access of large parts to the cutting table.



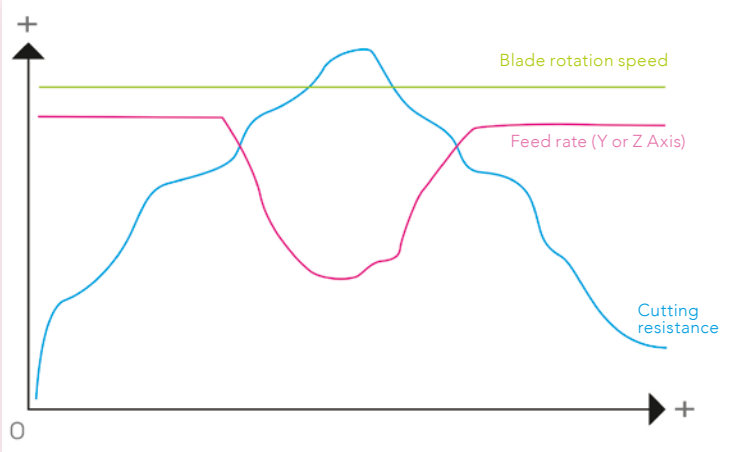
CUTTING ENVELOPE*



* This illustration of the cutting envelope of the EVO450 is to show the maximum theoretical capacity only. The actual capacity in practice will depend on the sample geometry and its physical properties.

FUNCTIONING

SIMULATION OF A CUTTING CYCLE



Cooling capacities are such that it allows exceptional cutting speeds without risk of burning.

VENTILATION OPENING



POSITIONING LASER



CONTROL JOYSTICK



LIGHT SIGNALS



AUTOMATED HOOD



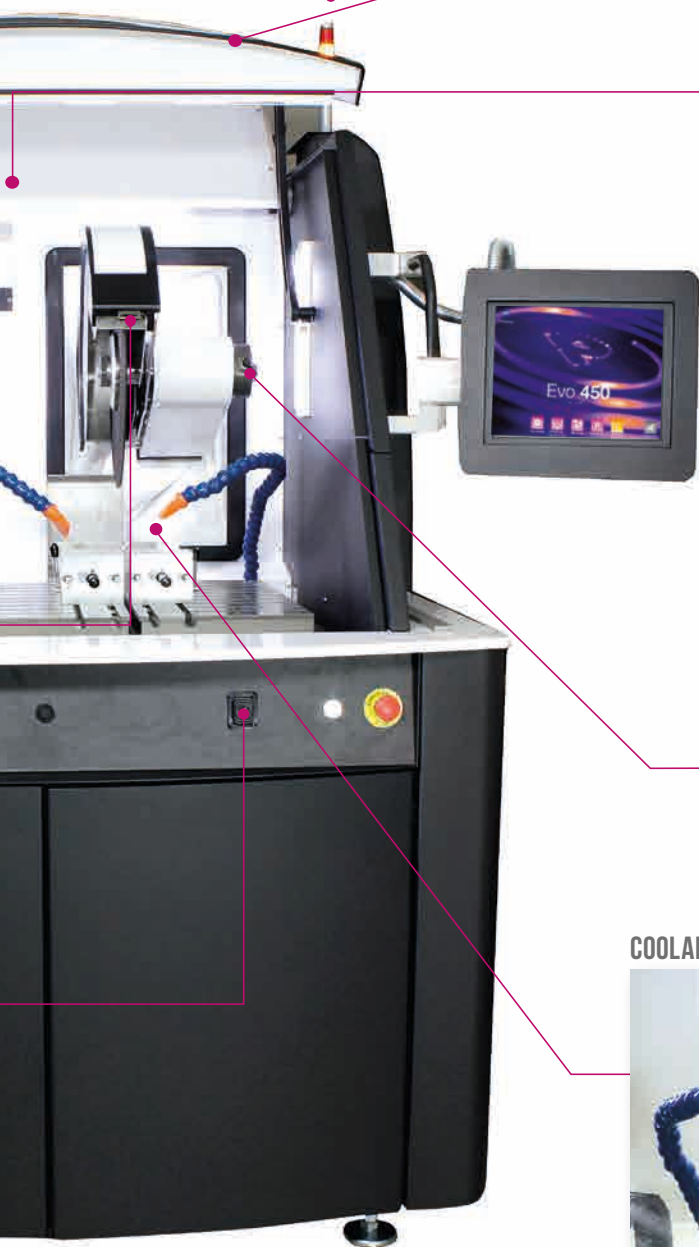
CLEANING NOZZLE



ARBOR LOCK



COOLANT NOZZLES



FUNCTIONING

EFFICIENT



Efficient, the EVO 450 provides different options to facilitate cutting. The rotational speed of the blade is held constant. When needed the frequency inverter provides extra power to the cutting motor to slice through the toughest materials.

The cutting speed is regulated according to cut resistance and is equally possible to engage pulse cutting.

Possibility to combine Z and Y axis to facilitate the cut.

ERGONOMIC



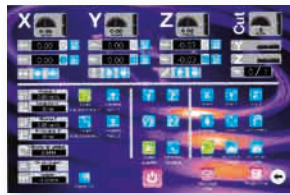
Ergonomically designed, the EVO 450 features a spacious cutting chamber easily accessed with a motor assisted hood lift to reveal a large table.

PRECISE



Thanks to the positioning laser, the cuts are even more under control.

INTUITIVE



The EVO 450 is also intuitive thanks to its colour touch screen and multilingual functions. The screen is equipped with two USB ports for service.

600 X 600MM STAGE



Equipped with a 600 x 600mm stage, this machine is capable of accepting work-pieces of up to 250mm in height and up to 200kg.

The T-slot (12 mm) bed accepts all existing clamping devices on the market.

FULL EQUIPPED



With a large recirculating coolant system of 300L capacity with control of levels. To enable easy installation, the machine is designed to be movable with a pallet truck.

CHARACTERISTICS

HOOD	
Type	PETG enclosure with metal hinges and motorised opening and closing
Safety	Interlock switch keeps hood locked during cutting
MOTOR-POWER	
Power	11000 W / 21000 W (via variator)
Electrical supply	380 V / 3 phases / 50 Hz
Motor control	Frequency inverter
CUT-OFF WHEELS	
Type of cut-off wheels	Resin bonded and metal bonded
Wheel diameter	Up to 450mm
Rotational speed	From 1.000 to 3.000 RPM
Arbor size	32mm
CONTROL AND SETTING OF PARAMETERS	
Interface	LCD
Security Access	Can activate password protection
Programmability	100 programs protected by password
CUTTING	
Cutting modes	Assisted, Automatic, Programmability, Pulsed
Work piece feed	Y axis table feed and Z axis wheel feed
Feed rate	From 0.01mm/sec to 3mm/sec
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.
Cutting length Y Axis	200mm
Cutting length X Axis	150mm
Cutting length Z Axis	400mm
Serial cutting	Serial cutting 2 modes: Y Axis cut and Z Axis cut
Cutting table dimensions	Left table: 295 x 600mm-Right table: 295 x 600mm
Laser to locate the cut	Yes
Table type	Treated aluminium table with interchangeable stainless steel "T" slot plates
Holders	Any sample fixturing system compatible with a 12mm "T" slot bed
LUBRICATION- COOLING SYSTEM	
Pump and tank	External-300 L
Type of lubrication	By Pump
Position of lubrication-Cooling	2 ports in the wheel guard 2 alignable nozzles mounted on the wheel assembly
Automatic filling	Yes with control of levels
USER-FRIENDLINESS	
Lighting in the cutting compartment	LED
Spray nozzle for inside cleaning	Integrated
CONFORMITY	
Conformity	EC

ACCESSORIES

Vices and Holders

50510
Left and right quick clamping vices
Height 70mm

50911
Left and right quick clamping vices
Height 90mm

50906
Left and right quick clamping vices
Height 45mm

50905
Left quick clamping vice
Height 45mm

50909
Right quick clamping vice
Height 45mm

50617
Chain clamp

50613
Box of Kopal holders

50616
Kopal holding

50902
Left and right screw clamping vices
Height 45mm

50901
Left screw clamping vice
Height 45mm

50903
Right screw clamping vice
Height 45mm



REF. 50510 - 50911



REF. 50906



REF. 50905



REF. 50909



REF. 50617



REF. 50613



REF. 50616



REF. 50902



REF. 50901



REF. 50903

CONSUMABLES

STANDARD RESINOÏD CUT-OFF WHEELS

REF.	DESIGNATION	DIAMETER	HARDNESS	MATERIALS
01029	Type A abrasive Al ₂ O ₃ (ferrous materials)	Ø 400 x 3 x 32mm	100 - 350 Hv	Low carbon, mild and extra mild and treated steels with medium cross-sections
01038		Ø 450 x 3,5 x 32mm		
01027	Type AO abrasive Al ₂ O ₃ (ferrous materials)	Ø 400 x 3 x 32mm	300 - 500 Hv	Treated steels, stainless steels, refractory metals, alloyed cast irons
01036		Ø 450 x 3.5 x 32mm		
01028	Type MNF abrasive SiC (non ferrous materials)	Ø 400 x 3 x 32mm	30 - 350 Hv	Aluminium, copper and alloys, non ferrous metals, titanium and alloys
01037		Ø 450 x 3 x 32mm		
01034	Type S abrasive Al ₂ O ₃ (ferrous materials)	Ø 400 x 3 x 32mm	450 - 700 Hv	Treated steels, with fragile coatings, difficult materials
01039		Ø 450 x 3.5 x 32mm		

PRESI IS ALSO...

CUTTING



Mecatome ST 310

MOUNTING



Poly'Vac

POLISHING



Mecatech 334

HARDNESS TESTING



Microtech MX1

CONSUMABLES



Resins



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