

CUTTING



MOUNTING



POLISHING



MICROSCOPY AND HARDNESS



# EVO 400

HIGH-CAPACITY CUTTING MACHINE



A robust, ergonomic, programmable,  
easy-to-use cutting machine.



A STRONG WORLDWIDE PRESENCE THROUGH SUBSIDIARIES AND MORE THAN 35 DISTRIBUTORS



# FUNCTIONS

## REF. 50400

**Width (closed screen)**  
1140mm

**Width (open screen)**  
1620mm

**Depth**  
1600mm

**Height (closed hood)**  
1910mm

**Height (open hood)**  
2380mm

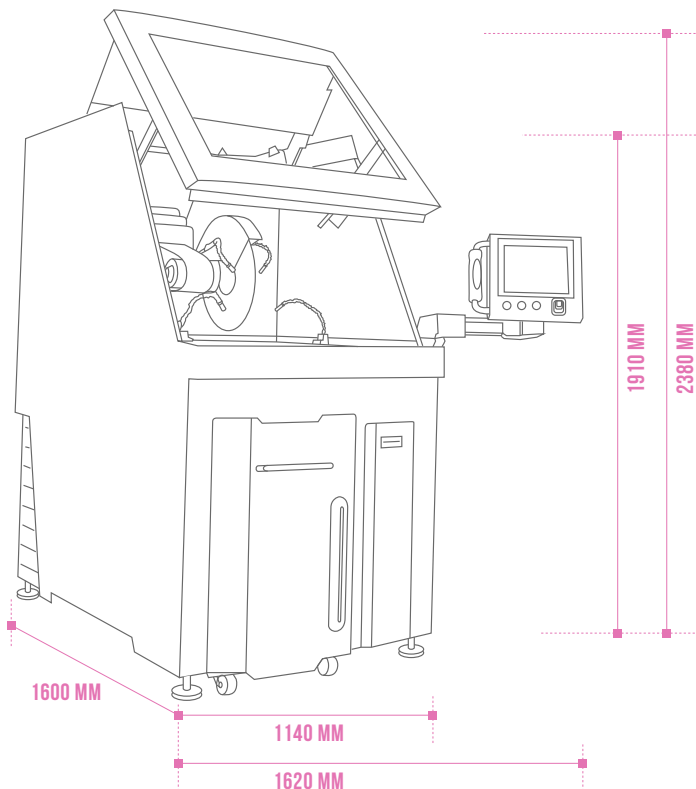
**Weight**  
750kg

**Conformity**  
EC

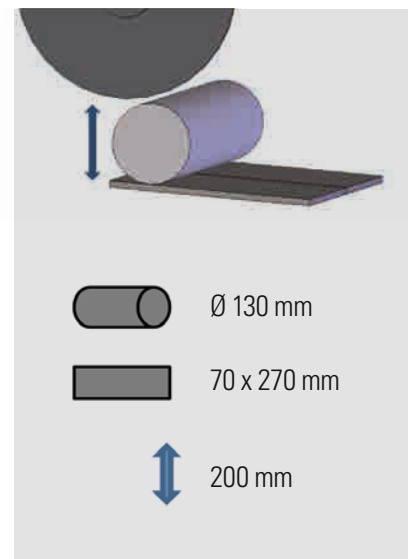
### EVO 400 cutting machine

EVO 400 brings a cutting solution for **large samples** (up to 200mm high and over 200kg).

This new machine, adapted to workshops, combines sturdiness and ease of use. It is programmable and allows repetitive cutting. It has been designed with ergonomics in mind with a motorized hood and touchscreen for easy operation.



### CUTTING ENVELOPE\*



\* 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 **powerful motor**, EVO 400 offers different settings making cutting easier. Grinder rotation speed remains constant. The frequency controller boosts the power of the motor and allows tougher materials to be cut.

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

## ERGONOMIC

EVO 400 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 400 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

Thanks to its **positioning laser** (option), the positioning of parts to be cut can be done quickly and optimally.

## EASY TO MAINTAIN

Maintenance and cleaning of EVO 400 are made easy because of its interior design and its **integrated cleaning kit**.

## ENSURES OPERATOR SAFETY

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

## T600 X 600MM TABLE

Equipped with a 600 x 600 mm table, it can cope with very large parts weighing up to 200kg. The T-slotted multipurpose deck (12mm) can adapt to all clamping systems available on the market.

As an option, a manual transversal deck (axis X) allows easy side adjustment of the part and cutting of parallel sections. A manual longitudinal table (axis Y) is also available as an option and increases cutting capacity.

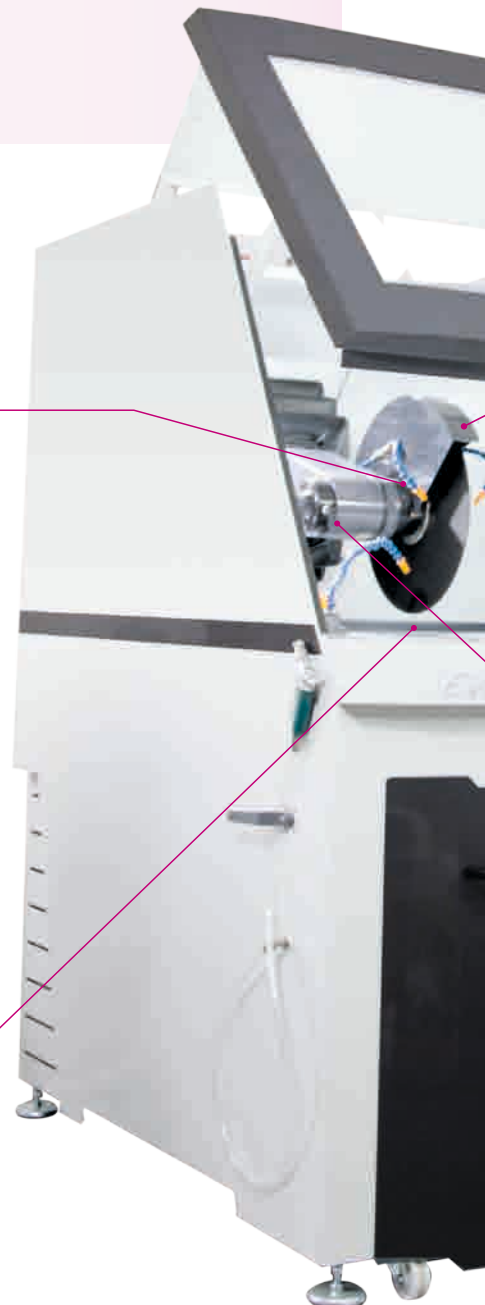
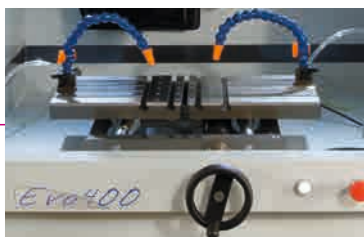
## LUBRICATION NOZZLES



## MANUAL TRANSVERSAL TABLE AXIS X (OPTIONAL)



## MANUAL LONGITUDINAL TABLE AXIS Y (OPTIONAL)



## CUTTING MODES

### POWER-ASSISTED

In this mode, the user directly pilots the descent of the grinder using the gearstick. This means the descent speed can be varied up to a pre-programmed maximum. This means the descent speed can be varied up to a pre-programmed maximum which allows for effort-free manual cutting.

### 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.

## SETTINGS

### PULSED

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

### AUTOMATIC PROGRESS

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 (OPTIONAL)



### JOYSTICK CONTROL



### CUTTING WHEEL LOCKING SYSTEM



# CHARACTERISTICS

| HOOD                                      |   |
|---|---|
| Type                                      | Metal frames & PETG Motorized opening and closing                             |
| Safety                                    | Locked during motor rotation  |
| Fumes extraction outlet                   | 76mm  |
| MOTORIZATION-POWER SUPPLY                 |   |
| Power                                     | 7500 W  |
| Power supply                              | 380 V / Three-phases / 50 Hz  |
| Control of the motor                      | Frequency control   |
| CUT-OFF WHEELS                            |   |
| Type of cutting disk                      | Resinoid & diamond  |
| Size of cutting disk                      | Up to 400mm   |
| Rotation speed                            | 1,000 to 3,000 RPM  |
| Shaft diameter                            | 32mm  |
| CONTROL                                   |   |
| Control interface                         | Color touchscreen   |
| Code protection                           | Can be activated  |
| Programmable                              | Up to 100 password-protected programs   |
| Communication interface / Machine control | Modbus  |
| CUTTING                                   |   |
| Cutting method                            | Assisted, automatic, programed, by impulse                                    |
| Cutting regulation                        | Movement of the arm according to motor load                                   |
| Axis Y travel                             | Option: manual table 600 x 300 travel 300mm*                                  |
| Axis X travel                             | Option: manual table 400 x 600 travel 200mm*                                  |
| Axis Z travel                             | 320mm   |
| Table dimensions                          | 600 x 600mm   |
| Positioning laser                         | Option  |
| Distance between cut-off wheel and table  | 200mm   |
| Type of table                             | Treated Aluminum table, interchangeable stainless steel palettes              |
| Holders                                   | Slotted T table (12mm) accepting all clamping systems available on the market |
| LUBRICATION - COOLING                     |   |
| Pump & tank                               | External - 200 L  |
| Type of lubrication                       | Pump  |
| Method of directing pumped coolant        | Cutting disk housing and 2 mobile sprinklers on the table                     |
| Type of filtration                        | 100 µm washable textile filter  |
| ERGONOMICS                                |   |
| Internal lighting                         | LED   |
| Spray nozzle for cleaning                 | Integrated  |
| CONFORMITY                                |   |
| Conformity                                | EC  |

\* Customizable tables and stroke lengths.



# 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

## Other accessories

**50370**  
Kit of V positioning supports



REF. 50510 - 50911



REF. 50906



REF. 50905



REF. 50909



REF. 50617



REF. 50613



REF. 50616



REF. 50902



REF. 50901



REF. 50903



REF. 50370

# CONSUMABLES

## RESINOID CUT-OFF WHEELS

| REF.  | DESIGNATION  | DIAMETER         | HARDNESS     | MATERIALS   |
|-------|--|------------------|--------------|---|
| 01029 | Ref. A<br>abrasive Al <sub>2</sub> O <sub>3</sub> (ferrous materials)  | Ø 400 x 3 x 32mm | 100 - 350 Hv | Low carbon, mild and extra mild and treated steels with medium cross-sections |
| 01027 | Ref. A0<br>abrasive Al <sub>2</sub> O <sub>3</sub> (ferrous materials) | Ø 400 x 3 x 32mm | 300 - 500 Hv | Treated steels, stainless steels, refractory metals, alloyed cast irons       |
| 01028 | Ref. MNF<br>abrasive SiC (non ferrous materials)                       | Ø 400 x 3 x 32mm | 30 - 350 Hv  | Aluminium, copper and alloys, non ferrous metals, titanium and alloys         |
| 01034 | Ref. S<br>abrasive Al <sub>2</sub> O <sub>3</sub> (ferrous materials)  | Ø 400 x 3 x 32mm | 450 - 700 Hv | Treated steels, with fragile coatings, diffi cult materials                   |