



# Cometa




## Technical Specifications

Electrical input	1phase 220/240 Vac $\pm 10\%$ - 50/60Hz $\pm 2\%$
Absorbed power max	1500 W
Dimensions (WxDxH)	2270 x 1680 x 1200 mm
Weight max	450 Kg
Noise emission	< 70 dB (without fumes suction unit)
Drive motors type	brushless
Working area (WxD)	1600 x 850 mm (63" x 33")
Cutting plane size (WxD)	1665 x 940 mm (66" x 37")
Cutting plane type	metal grid / fixed
Fumes extraction	top and bottom suction system
Fumes suction	external free standig unit
Laser source type	CO <sub>2</sub> - 10.6 $\mu$ m - sealed type - RF Air or liquid cooled
Laser power	25 W / 50 W / 100 W / 200 W
Laser beam delivery	mirrors and XY movable cutting head
Laser spot diameter	100 $\mu$ m
Cutting speed	up to 1.8 m/s
Translation speed	2 m/s
Acceleration	1.5 g
Resolution	8 $\mu$ m
Optics cleaning	internal or external air / external gas
User interface	keyboard with display
Languages	EN / IT / FR / GE / SP / PO / TR
Software	Focuscut III - Videocut
Laser Product Class	Class 3R (EN-60825-1:2003-02) Class IIIa (USA-CDRH 21 CFR)
Safeties	protective enclosures + laser beam stop access panel with safety interlocks
Material positioning	red light laser pointer on the cutting head

## Cometa at a glance

The Cometa machine, together with the Focuscut III software supplied as standard, is a very precise and efficient system for cutting and engraving materials placed on the cutting plane (1600x850 mm) of the machine itself.

The software allows you to create cutting files that are suitable for transmission to the machine via a serial line or via a diskette.

The machine is equipped with an industrial computer running the Linux Operating System.

It has various features such as:

- it allows different levels of cutting/engraving to be carried out in the same cutting cycle, allowing very complex designs to be produced;
- it has a very high speed (1.8 m/s) and accelerations never before reached (2 g);
- the cutting of rectangular sections over all or part of the frame without needing to create the file on the pc.
- the possibility of memorizing several files in the memory of the machine and to recall them later.

A flow of air is made to pass continuously over the cutting head during the cutting/engraving cycles. As well as keeping the focusing lens of the laser ray clean, it also prevents the work material from being scorched. The fumes produced when cutting or engraving the work material are removed by a suction unit external to the machine. It is available with a 25, 50 or 100 Watt CO<sub>2</sub> laser source.

