

SUPREME

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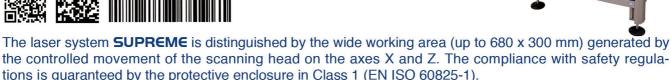
MULTI-AXIS FIBER LASER MARKING SYSTEM

- · Versatility, high speed and high quality marking
- Marking on all kind of materials (also on high hardness metals)
- Surface marking or deep marking
- Marking of alphanumeric text, logos and images
- Marking of codes 1D (Code 39, 2/5 Interleaved, Code 128, EAN 13)
- Marking of codes 2D (Data Matrix, QR Code)
- User interface with keyboard and display, stand-alone operation (PC non necessary)
- Marking data acquiring from barcode reader or external device via ASCII protocol
- Reduced maintenance









It is equipped with fiber laser sources 20W, 30W or 50W, that allow to have the most suitable configuration for the different customer needs.

The fiber laser marking is the most flexible type of direct marking from those available. The ability to adjust various parameters of the laser, it enables the highest levels of control, marking quality and speed and can perform three different types of marking:

- incision that creates a direct marking, durable, long lasting and forgery-proof
- tempering that creates a permanent marking induced by heat, without removing or compromising the material of the workpiece
- ablation that removes the paint or surface coatings to create a contrast without damage the material. Such systems are suitable to work on every metal, including carbides, aluminium and titanium alloys and the hardened steel.

It can be used in the same way even on different materials such as plastic.

It also has the predisposition for the installation of the fume extraction system and for the connection of the optional AR1 rotary axis device for the marking of cylindrical parts and of the automatic loader of plates AF3.

SECTORS



Automotive

Engine blocks and cylinder heads, valves, filters, fuel injection plants



Household appliance

Washing machines, water heaters, cookers, coffee machines



Power Transmission Gearmotors, Gearboxes



Hydraulic & Pneumatic

Valves, cylinders, tanks, control valves



Agriculture Machinery Control valves,

blocks, cylinders



Aerospace Turbines, tanks, components



Fiber Laser Advantages

- · Reduced maintenance and long lifetime of the laser source
- · High performance optics elements, low electrical consumption
- · High energy density that allows to obtain a high quality marking in a short time
- · Integrated red-pointer diode that allows to position the piece easily
- · Direct and durable marking, without the use of solvents, paintings or labels

Technical Features:

- Laser safety CLASS 1 cabin (CEI EN 60825-1)
- Balanced sliding door for an easy access to the working area
- · Useful mechanical opening for workpiece max. 660 x 420 mm
- · Lateral access window
- · Motorized and controlled X axis
- · Motorized and controlled Z axis
- · Possibility of marking on different levels for the same workpiece
- · Fiber laser source
- · Wavelength 1064 nm
- Laser power 20W (SUPREME-20FX)
 30W (SUPREME-30FX)
 50W (SUPREME-50FX)
- Integrated red pointer / preview 635 nm, 5mW
- · Marking speed up to 3750 mm/s
- · USB, RS-232, TCP/IP (optional) connections
- · Led illumination integrated
- · Fume extraction arrangement
- Power supply 100-240 Vac, 50/60 Hz
- Absorption 2,135 kW (20-30W), 2,879 kW (60W)
- External dimensions 840 x 855 x 1900 mm

F-163 focal lens, working area 592 x 112 mm, spot 32 μ m, working distance 190 mm F-254 focal lens, working area 615 x 170 mm, spot 31 μ m, working distance 298,5 mm

Identify³ Marking Software

This powerful and user-friendly software (included) allows to set up and to save marking cycles containing alphanumerical texts, dates, incremental counters and company logos.

Logos can be imported from BMP/DXF/PLT files.

It is possible, upon request, to customize the user interface and the data acquisition from management software.

