Warcom

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W·FIBER

LASER CUTTING


FIBERLASER

# Index

Warcom

Bending & Cutting Solution

# RELIABILTY, EXPERTISE AND PASSION

*In 1959 Giovanni Robazza started the production of machine tools for sheet metal working. In his small workshop he built the first mechanical shear in cast iron under the "ROMEA" brand.*

**In 1979 Walter Roberto Robazza,** *Giovanni's son,* **founded Warcom, industrializing the production of hydraulic press brakes and shears with CNC numeric controls**. *Currently, Warcom is managed by the third generation of Robazza family, the brothers Alberto and Paolo.*

**It is the only Italian company producing a complete line of products dedicated to the sheet metal working**: *laser cutting machines, press brakes, guillotine shears, plasma cutting machines and also tube cutting machines with an installed base of more than 4000 machines all over the world, thanks to a consolidated sales network.*



# Departments

### SALES DEPARTMENT

*Our Sales Department is available to our clients throughout the negotiation process for technical and commercial consultations, all the way to transportation and delivery of the machine.*

### TECHNICAL OFFICE

*Each machine is designed and drawn within our Technical Office. For this reason, our machinery can be highly customized beyond the standard line, including XXL models of large dimensions.*

### PRODUCTION DEPARTMENT

*Within the production department, we carefully manage all stages of the process: from welding the frame to mechanical processing using cutting-edge CNC machines, through painting, assembly, wiring, and testing.*

### SERVICE

*Our company provides a technical support service managed by highly specialized technicians, ensuring fast and effective solutions to best meet our customers' needs.*

# *Service Department: Expertise, Speed and Innovation*

*The Warcom assistance department is synonymous with professionalism and innovation. A team of qualified technicians provides testing, technical support, and training courses. Thanks to advanced management software, each intervention is trackable in real-time, ensuring quick responses. Warcom offers complete and personalized support for the entire useful life of the machines, with tailored solutions. It also provides training courses to qualify operators and optimize the use of technologies, along with automated warehouses for quick delivery of spare parts.*


RIVALE 1530
ITALO 200
W FIBER 1530
DINAMICA
LOGICA
EVOLUTA

# Processing

## BASE MACHINE PROCESSING TECHNIQUES

*The processing of the base is done on a gantry boring machine, in order to complete all procedures in a single step, thus ensuring compliance with the high precision standards set by Warcom.*

### Warcom Machine Colors

*All Warcom machines are painted using only four selected RAL colors, ensuring a uniform, professional, and easily recognizable aesthetic.*

RAL 7035 RAL 7030 RAL 7025 RAL 6018



# **Laser** Cutting

*Fiber laser represents today the most modern technology for thermal cutting*

## W·FIBER

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*The W-Fiber iber laser model is a concentration of technology and versatility, designed to ensure high productivity, precision, and reliability.*

## Oversize

page 24

*Warcom is also able to offer XXL product lines with special formats, with extensive customization options, to handle large-sized sheets.*

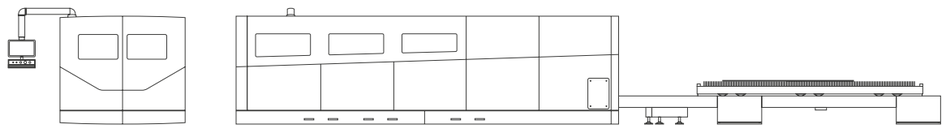

# W·FIBER

## *Laser cutting machine*

*The W-Fiber fiber laser model is a concentration of technology and versatility, designed to ensure high productivity, precision, and reliability.*

*Extremely fast machines for all types of cutting, W-Fiber models stand out for their high flexibility and profitability with accelerations of up to 2G and a maximum speed of 210 m/min for interpolated axes. The fiber laser is suitable for cutting various materials, including highly reflective ones.*
*Compared to CO2 lasers, the fiber laser guarantees over 70% energy consumption reduction and over 50% reduction in operating expenses.*

*The W-Fiber range can be equipped with automatic loading/unloading systems for both sheet metal and processed parts and can also be equipped with automatic vertical storage systems.*

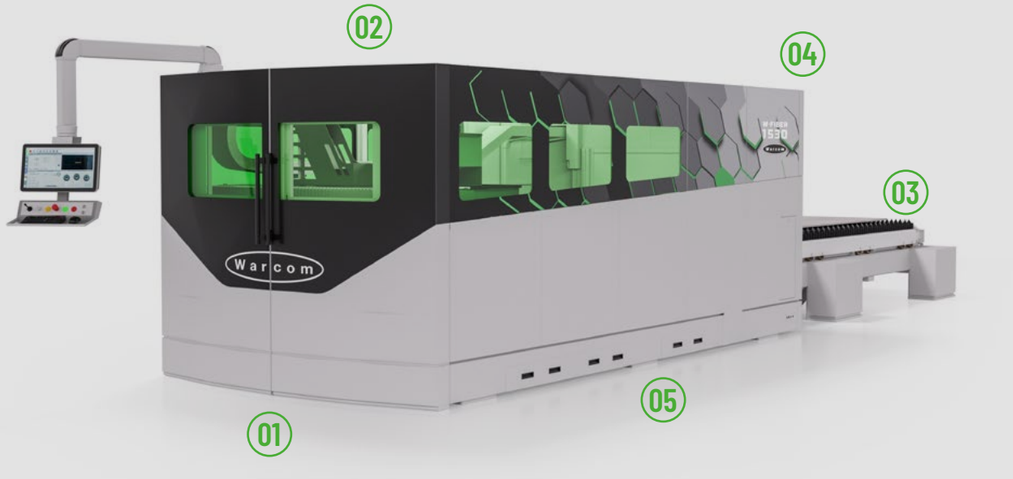


## 01 Front Doors

*Automatic front doors with wide opening for easy manual insertion of parts and to facilitate maintenance operations. The doors are equipped with large windows for optimal visibility of the working area.*

## 02 Hi-Design Safety Protection Cover Box

*W-Fiber is equipped with a protective cabin, compliant with current European safety regulations, to protect the working area. The livery reflects the essence of W-Fiber, designed for the most demanding customers.*




## 03 Automatic Pallet Exchange

*W-Fiber features an automatic pallet change system with hydraulic lift on two levels. This system ensures that, in addition to high movement speed, the internal bench always remains at the same height, thereby minimizing the travel of the cutting head.*

## 04 Integrated Electric Panel

*Integrated electric panel to further reduce the overall dimensions of the machine. The electric panel is equipped with its own cooling system.*

## 05 Scrap Collector

*W-Fiber is equipped with comfortable and practical scrap collectors that are removable by roller units, which allows for better and easier cleaning.*



| MODELLI<br>MODELS | Lunghezza<br>Length | Larghezza<br>Width | Altezza<br>Height | Corsa asse X<br>X axis stroke | Corsa asse Y<br>Y axis stroke | Corsa asse Z<br>Z axis stroke |
|---|---|---|---|---|---|---|
| **W-FIBER 15-30** | 9500 mm | 2500 mm | 2350 mm | 3150 mm | 1550 mm | 120 mm |
| **W-FIBER 20-40** | 11500 mm | 3000 mm | 2350 mm | 4150 mm | 2050 mm | 120 mm |
| **W-FIBER 20-60** | 16000 mm | 3000 mm | 2350 mm | 6150 mm | 2050 mm | 120 mm |
| **W-FIBER 20-80** | 20000 mm | 3000 mm | 2350 mm | 8150 mm | 2050 mm | 120 mm |
| **W-FIBER 25-60** | 16000 mm | 3500 mm | 2350 mm | 6150 mm | 2550 mm | 120 mm |
| **W-FIBER 25-80** | 20000 mm | 3500 mm | 2350 mm | 8150 mm | 2550 mm | 120 mm |
| **W-FIBER 25-100** | 24000 mm | 3500 mm | 2350 mm | 10150 mm | 2550 mm | 120 mm |
| **W-FIBER 25-120** | 28000 mm | 3500 mm | 2350 mm | 12150 mm | 2550 mm | 120 mm |

Dimensioni barriera di sicurezza = 700 mm
*Safety barriers dimensions = 700 mm*

Note: Altri modelli sono disponibili a richiesta
*Note: other models are available upon request*

| SPECIFICHE ASSI<br>AXES TECHNICAL SPECIFICATION | Velocità<br>Speed | Accelerazione<br>Acceleration | Risoluzione posizionamento<br>Positioning resolution | Tolleranza di posizionamento<br>Positioning tolerance |
|---|---|---|---|---|
| **Asse X / Axis X** | 150 m/min | 2G (1G per/for Y 2500) | 0,01 mm | +/- 0,03 mm |
| **Asse Y / Axis Y** | 150 m/min | 2G (1G per/for Y 2500) | 0,01 mm | +/- 0,03 mm |
| **Asse Z / Axis Z** | 40 m/min | - | 0,01 mm | +/- 0,03 mm |
| **Assi X-Y Interpolati / Axes X-Y interpolated** | 210 m/min | 2G (1G per/for Y 2500) | 0,01 mm | +/- 0,03 mm |
| **Cambio Pallet / Pallet Exchange** | 50 m/min | 0,1 G | 0,1 mm | +/- 0,1 mm |

| MASSIMA CAPACITÀ DI TAGLIO<br>MAXIMUM CUTTING CAPACITY | 2 KW | 3 KW | 4 KW | 6 KW | 8 KW | 10 KW | 12 KW | 15 KW | 20 KW | 30 KW |
|---|---|---|---|---|---|---|---|---|---|---|
| **Ferro / Mild Steel** | 15 | 15 | 20 | 25 | 25 | 30 | 40 | 50 | 50 | 60 |
| **Acciaio Inox / Stainless Steel** | 10 | 12 | 15 | 25 | 30 | 40 | 45 | 50 | 50 | 60 |
| **Alluminio / Aluminum** | 6 | 10 | 15 | 20 | 25 | 30 | 30 | 40 | 40 | 50 |
| **Ottone / Brass** | 3 | 5 | 6 | 8 | 10 | 15 | 15 | 20 | 20 | 30 |
| **Rame / Copper** | 3 | 5 | 6 | 8 | 10 | 12 | 15 | 15 | 20 | 30 |
| **Ferro in azoto / Nitrogen Mild Steel** | 4 | 5 | 5 | 6 | 8 | 15 | 15 | 15 | 20 | 20 |

| POTENZA INSTALLATA E CONSUMO ENERGETICO MEDIO (in kW)<br>INSTALLED POWER AND MEDIUM ENERGY CONSUMPTION (kW) | 2 KW | 3 KW | 4 KW | 6 KW | 8 KW | 10 KW | 12 KW | 15 KW | 20 KW | 30 KW |
|---|---|---|---|---|---|---|---|---|---|---|
| **Sorgente Laser<br>Laser Source** | 5,4 | 8,4 | 11,5 | 17,5 | 22,9 | 28,7 | 34,5 | 43 | 58 | 86 |
| **Chiller<br>Chiller** | 5,8 | 5,8 | 5,8 | 10,32 | 10,32 | 10,32 | 16,1 | 16,1 | 21 | 29,56 |
| **Portale*<br>Gantry*** | 8,5 | 8,5 | 8,5 | 8,5 | 8,5 | 8,5 | 8,5 | 8,5 | 8,5 | 8,5 |
| **Cambio pallet*<br>Pallet exchange*** | 5,5 | 5,5 | 5,5 | 5,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 | 7,5 |
| **Filtro depolveratore*<br>Dust collector*** | 5,5 | 5,5 | 5,5 | 5,5 | 7,5 | 11 | 11 | 15 | 15 | 15 |
| **Tot. Potenza Installata<br>Total Installed Power** | 30,7 | 33,7 | 36,8 | 47,32 | 56,72 | 66,02 | 77,6 | 90,1 | 110 | 146,56 |
| **Consumo Medio in Produzione<br>Medium Energy Consumption in Production** | 11 | 13 | 15 | 19 | 22 | 26 | 31 | 36 | 44 | 59 |

** Approximate data for dimensions 1500x3000 mm*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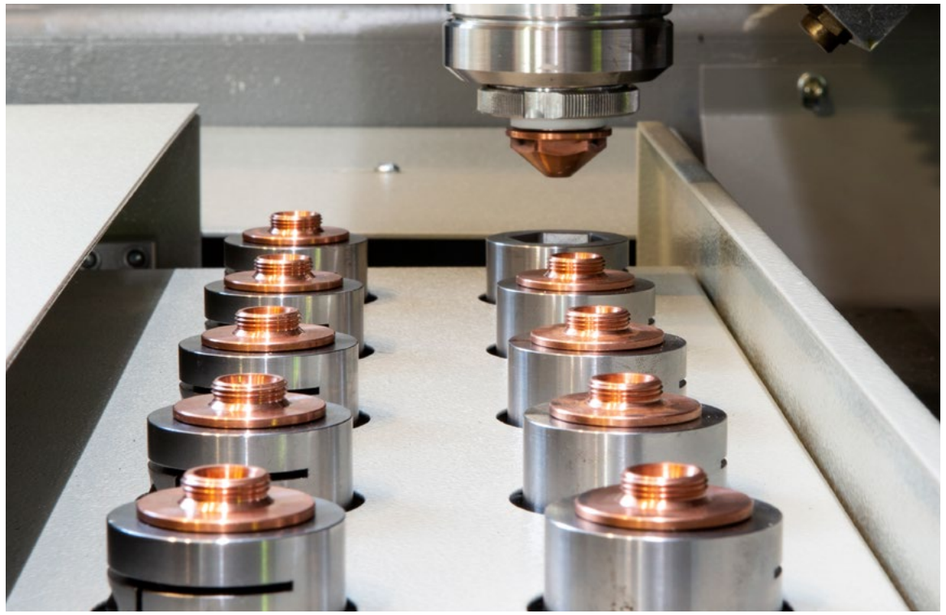
# **Over** Size

# Accessories & Technoloy

# ACCESSORIES

## AUTOMATIC NOZZLE CHANGE SYSTEM W-Change

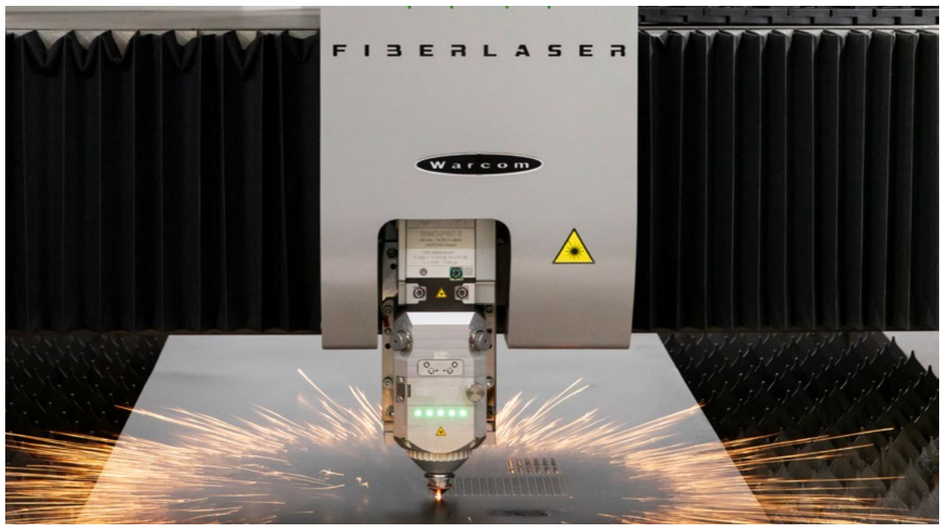
*An automatic system created to change the nozzle on the cutting head, based on the material information input to the CNC. It is equipped with 10 changing stations.*





# Cutting Heads

*Warcom conducted thorough research to identify the most reliable suppliers for laser cutting heads. In this process, we identified two top-tier brands: HighYag and Precitec. These partners are known for their reputation for excellence and the quality of their products, which are synonymous with reliability and superior performance. With our carefully curated selection of suppliers, we ensure our customers access to cutting-edge laser cutting technologies, supported by a solid foundation of reliability and high European quality. Choosing Warcom means investing in reliable laser cutting solutions that meet your expectations.*




## HIGHYAG For W-Fiber

*The W-Fiber model is equipped with HighYag cutting heads that ensure high performance and process stability. The head is equipped with a diagnostic system with LED indicators integrated into the head, providing information on its status.*

*For the most demanding customers, the "Zoom" head is available with automatic adjustment of the laser beam diameter, to further increase cutting speed and quality.*

# BEVEL 3D

# Cutting

### 3D BEVEL CUTTING HEAD

*3D Bevel cutting head with infinite rotation and maximum cutting inclination of +/- 50°. It's a system with great precision and repeatability thanks to the presence of high precision ball bearings and with the entirely digital motorization.*

# W-ECOBOOST

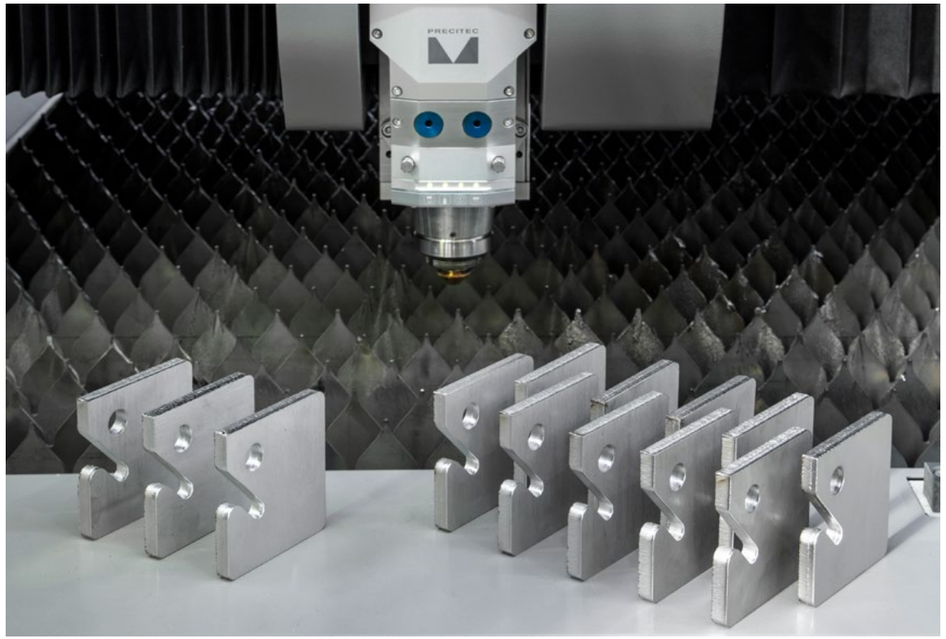
***Cut faster. Save money.***

*EcoBoost increases cutting speed by up to 100% and reduces cutting gas consumption by 70%. In the same amount of time it will allow the cutting of more parts while saving gas and with electric consumption per piece reduced as a consequence.*

**100%** *FASTER*

**70%** *LOWER CUTTING GAS*

**50%** *LOWER ELECTRICITY*






# W-BEVEL 2D

***2D cutting. 3D technology.***

*Made with standard 2D cutting head. The ideal solution for countersinking or for welding preparation.*

# W-CONTROL

***Constant Monitoring - Efficient Consumption***

*System for monitoring and controlling gas consumption, electrical consumption and the state of use of the machine over time. The data is collected in graphs showing the consumption trend on the CNC. Constant monitoring of the machine status allows to digitize and make dynamic and fluid the production avoiding any waste and downtimes.*

# Laser Source

*Warcom conducted a meticulous research and selection of suppliers for fiber laser cutting generators. This process led to the identification of two ideal partners: IPG and Max Photonics.*

*IPG stands out for its long history in the industry, its established reliability, and the impeccable quality of its product. It has become the ideal partner for W-Fiber, ensuring high performance and uncompromising reliability.*

*On the other hand, Max Photonics offers quality that meets Warcom's rigorous standards while also providing an undoubtedly attractive price-performance ratio for consumers. Thanks to this partnership, we are able to offer high-quality products at competitive prices, allowing our customers to get the maximum value for their investment.*


### IPG For W-Fiber

*IPG has established itself over the years as a market leader in the production of fiber laser cutting generators. Available on W-Fiber with powers ranging from 2 to 30kW*

LASER

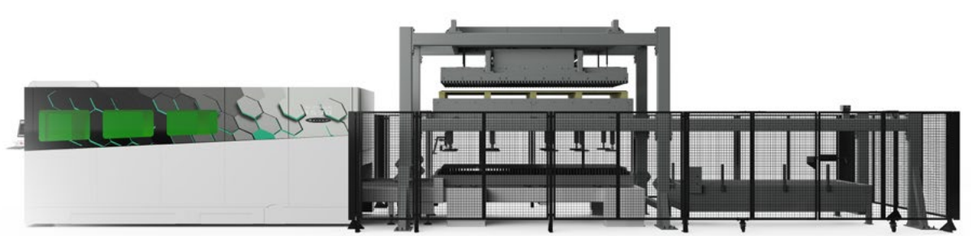
# Automation

*AUTOMATIC LOADING-UNLOADING SYSTEM FOR LASER MACHINE*

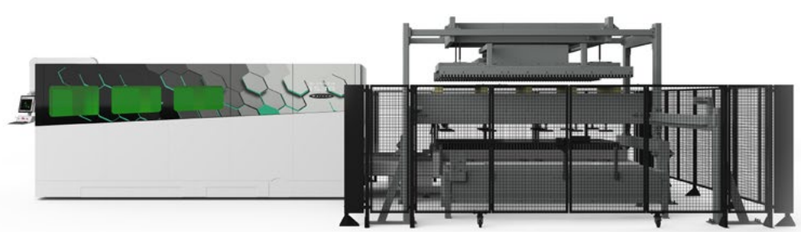
*Warcom laser cutting machines can be installed with an automatic system for the loading and unloading of metal sheets and cut pieces and with automatic vertical storage. These automated devices greatly optimize the production process, thus giving the possibility to work with a fully automatic system unattended.*

*Loading Unloading System WSTL*

*Loading Unloading System WSTL*



*Loading unloading system WLL*



*Loading unloading system WFL*


We are

Warcom

*The data given in the present catalogue are indicative. In consideration of our always improving technology, characteristics are given merely on information basis and can be modified at any time without prior notice.*

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