

Technical Service

A SOLID INVESTMENT IS MEASURED OVER THE FUTURE

Service means responding quickly to questions from machine users. With an advice to shorten the work cycle, a specific instruction for the production of a part, assistance to solve a technical fault, a quick supply of spare parts to minimize downtime, a training session with operational tips, a guide to use the system to its maximum capacity.

Whatever Hymson technology is chosen, our Customers always benefit from our professional skills and competence.



Support to the Hymson laser cutting system is guaranteed both during the warranty period and beyond with long-term service contracts. Contact the Hymson Italy qualified technicians, you will receive free telephone advice also through Wechat/Whatsapp support.

Request the technical assistance on site: the dedicated external service team will be able to solve any problems on the system.



Reliability is the keyword of a successful industrial system: the innovative management of the capital goods maintenance starts from the monitoring of performance in order to anticipate possible faults, plan routine maintenance, manage unforeseen breakdowns, schedule the supply chain of spare parts and materials.

Participate in Hymson Italy's technical-commercial training courses to increase technical and commercial expertise, build confidence in products, acquire problem-solving skills and help optimize machine performance, thereby increasing efficiency and productivity.

Hymson Laser Technology

OPPORTUNITIES AND ADVANTAGES OF LASER CUTTING

The incomparable winning features of laser cutting are speed, precision, excellent cutting finish and low energy consumption. Laser processing is beneficial both in the design phase and in the production cycle: it is possible to work with a wide variety of thicknesses, materials and shapes. Fibre optics is the latest technology in laser cutting: laser beams can achieve extremely high irradiance and concentrate enormous power in a very small area.



INDUSTRIAL APPLICATION

Sheet metal, tubes and profiles are used in machine manufacturing, precision engineering, electronics, construction, automotive, oil & gas, railways and shipbuilding. All industries benefit from laser cutting innovations. In these fields the laser opens up new design possibilities and the demand significantly increases every year. Discover the wide range of Hymson products for the world of laser cutting of tubes and sheet metal.



How to get there:

Coming from Milan: Motorway A4, Motorway A31 Valdastico, exit Thiene

Coming from Venice: Motorway A4, Motorway A31 Valdastico, exit Thiene



Hymson Italy srl

Autostrada A31 < da Milano da Venezia All machines meet the standards



Tube

EN

Fiber Laser Cutting Machines

Modular systems with a wide range of configurations for processing flat sheets and tube profiles with optical fibre laser technology. International brand, European quality and cutting edge production facilities for the increasing demand for process and product innovation.

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Company Profile

THE **STRUCTURE** BEHIND THE BRAND



A LEADER IN FIBER LASER CUTTING AND AUTOMATION, HYMSON HAS A LONG HISTORY OF CROSS-INDUSTRY EXCELLENCE IN THE PRODUCTION OF IPHONE COMPONENTS AND ELECTRIC CAR BATTERIES.

HYMSON ITALY SRL, a subsidiary of Hymson Laser Technology Co., Ltd, is active in the field of industrial automation for the design, construction and marketing of plants for metal cutting with fibre laser technology.

Hymson Italy was established in 2019 in the Province of Vicenza, in one of Europe's most developed industrial districts, to develop the European market and meet the new challenges of the metalworking industry. The company, a member of Confindustria Vicenza, is consolidating its success by becoming a stable reference point in the sector.

In the context of new technologies, the Hymson Group's unrivalled production capacity combined with the vitality of research and innovation, becomes an absolute competitive advantage in reducing time to market in all phases of the realisation of a new product from design to engineering, from prototyping to market launch.

What Makes Us Special

RELIABLE PRODUCTS

Efficient and affordable fibre laser cutting machines. We firmly believe in technological innovation and we design systems that combine cutting-edge production processes with a qualified service, punctual in time and certain in cost.



TECHNOLOGICAL INTEGRATION FOR INDUSTRY 4.0

The integration of ERP systems for Industry 4.0 interconnection, the digital factory, and machine data collection. The ultimate goal is to increase productivity by improving machine management systems, even remotely.



INTERNATIONAL BACKGROUND

Hymson Italy is the reference for Customers in EUROPE, MIDDLE EAST, GULF AND NORTH AFRICA for professional consultancy and technical support. The experience of our design engineers and project managers, together with the international profile of the sales team, work with the Customer to guarantee custom-made plants with high performance and reliability. Our Customers are welcome to visit our showroom in Vicenza where new applications are tested to assess the performance of our systems and the excellence of our technical choices.





Tube cutting plants

Tube cutting plants

Laser tube HYMSON SERIES HP-D

High-end fibre optic tube laser cutting system with latest generation technology

The HP-D SERIES is the winning choice for the most demanding industry that requires high cutting performance to achieve surfaces without burrs or flakes, maximum reliability and excellent return on investment. The system, at the top of the range in laser tube cutting, is highly automated, with five-axis linkage, ultra-fast rotation and high-precision positioning. The automation of all operations results in significant time savings and a controlled step-by-step process that does not rely exclusively on the operator's technical skills.

Laser tube HYMSON SERIES MP-D

Highly reliable and efficient fibre optic tube laser cutting machine Robust, durable and designed for high intensity production, the plant replaces conventional production technologies and offers excellent access to the tube processing industry. The MP series is the preferred cost-effective laser cutting machine for a variety of tube types and thicknesses. Equipped with an automatic loading and unloading system, the MP series can work in a continuous cycle 24 hours a day, 7 days a week, with a high production rate, low operating costs and outstanding general benefits.



PLUS

Automatic loading and unloading system designed for large batches and for picking up individual tubes from a bundle.

High performance smart dedusting system.

CNC control system jointly developed by Hymson and Beckhoff.

Professional MASTER 5000 T laser cutting software, innovative human-machine interface developed in-house by Hymson.

24/7 continuous cycle processing and highest productivity.

Maximum weight of workable bars: Kg/m 25.

Length of bars that can be loaded automatically: from 2500 mm to 6200 mm.

Maximum workpiece length: 6200 mm fully machined; longer lengths on request.

Electrical protection class IP 54.

HP 6018 D

Optic-fiber laser power	1000-4000W
Machine size (LxWxH)	12550x6020x2800 mm
Cutting capacity	Round Ø 20-180mm - Square 20-140mm
X stroke length	0~6800mm
X axis positioning accuracy	0.05mm
X axis positioning speed	80-120m/min
Y stroke length	-140~150mm
Y axis positioning accuracy	0.05mm
Y axis positioning speed	80m/min
Z stroke length	-140~170mm - 0~180mm
Z axis positioning accuracy	60m/min
A-B axis rotation speed	150rpm

Loading system

naximum postioning accurac The length detection function

Inloading system

arts from scrap parts



PLUS

Automatic loading and unloading system designed for large batch sizes and to pick up single tubes from a bundle of material.

NC software MASTER 5000T dedicated to laser tube cutting in-house developed by Hymson with unique applications and cutting functions, intuitive interfaces, advanced features and large screen display.

Smart high performance dedusting system.

Maximum bar weight: Kg/m from 15 to 50 depending on model.

Automatically loadable bar length: from 2000 mm to 6200 mm.

Maximum workpiece length: 6200 mm fully machined; longer tubes can be cut on request.

Electrical protection class IP 54.

Parameter	MP 6012 D	MP 6018 D	MP 6022 D	MP 6032 D
Optic-fiber laser power	1000 - 4000W	1000 - 4000W	1000 - 4000W	1000 - 4000W
Machine size (LxWxH)	12550x6020x2800 mm	12550x6020x2800 mm	12550x6020x2800 mm	12550x6020x2800 mm
Cutting capacity	Round Ø 8~120mm Square 10x10-80x80mm	Round Ø 20~180mm Square 20~140mm	Round Ø 20~220mm Square 20~150mm	Round Ø 20~320mm Square 20~220mm
X stroke length	0~7000mm	0~7000mm	0~6700mm	0~6700mm
X axis positioning accuracy	0.05mm	0.05mm	0.05mm	0.05mm
X axis positioning speed	100m/min	100m/min	60m/min	60m/min
Y stroke length	0~160mm	0~160mm	0~280mm	0~280mm
Y axis positioning accuracy	0.05mm	0.05mm	0.05mm	0.05mm
Y axis positioning speed	60m/min	60m/min	80m/min	80m/min
Z stroke length	0~180mm	0~180mm	0~250mm	0~250mm
Z axis positioning accuracy	60m/min	60m/min	60m/min	60m/min
A-B axis rotation speed	150rpm	150rpm	80rpm	80rpm

Tube cutting Technology

NESTING SOFTWARE

TubesT is an automatic CAD/CAM programming software that integrates the entire CNC operation process of the plant, including drawing automatic or interactive handling, CNC program simulation, combined manua and automatic cutting, downloading and loading of machining programs. Graphic files generated by SolidWork can be inserted directly into the software.

Why use fiber laser for tube cutting?

An important application of laser cutting is the cutting and processing of tubes that are clamped in a chuck to ensure the axial movement of the oscillator. It is essential to pay attention to the laser power used, which must be suitable for the thickness and diameter of the tube in order not to damage its structure.

PLUS

Higher speed and twice the productivity of the CO2 laser. The best performance is achieved with structural steel and stainless steel of medium and fine thickness.

Higher efficiency and lower power consumption, with simpler installation as there is no longer need to overestimate the energy supply.

Zero power source maintenance: the fibre laser is not regenerated, as it does not use gas; the laser quality is constant over time and available immediately upon start-up.

No tools or jigs required: the very high cutting accuracy makes further finishing work unnecessary.

Reduced working cycle times thanks to automatic bundle loading and programmable automatic unloading.

Fibre laser cutting allows all materials to be processed, including copper and brass, aluminium and galvanised steel, without any limitations in the production of pipes and sheets.

The innovative technology of the fibre laser and the flexibility of production create extensive design and customising potential. It is possible to process open profiles (L, C, U, flat) and special sections as well as small, round, square and rectangular tubes.

TECHNOLOGY SHAPES CREATIVITY

The plant is designed to process a wide variety of tube shapes in Stainless Steel, Carbon Steel, Aluminium, Copper, Brass, Galvanised. Multiple sections and sizes can be machined.

MORE THAN JUST ROUND

Choosing Hymson fibre laser tube plants is all about the best performance combined with great expertise and reliability: perfectly processed tubes in any metal material for all different industrial requirements.

ALCUNI ESEMPI				
SQUARE TUBE	SQUARE TUBE			
SQUARE TUBE	ROUND TUBE			
ROUND TUBE	ROUND TUBE			



on request

Sheet & Tube combined plants

Fiber laser cutting machine SERIES HF 3015 BP

Two different technologies in one single high-performance plant for both SHEET METAL AND TUBE cutting.

In the production of parts including shaping, repetitive internal geometries and specific external profiles that require smooth finishes and edges, the tube and sheet metal cutting process can be effectively integrated into a single laser cutting machine. Hymson Italy has designed an innovative combined and compact sheet & tube laser cutting plant, an outstanding system that combines two different technology and approaches new applications.



PLUS

Considerable savings on initial investment, production time and space

Uniquely designed protective cover with all housing for moving parts both in flat sheet and tubing.

The side roll-up door facilitates the loading of a 6-meter-long pipe

The plant is controlled by a single Master 5000 T software.

The plant complies with CE and Industry 4.0 interconnectivity requirements

Electrical protection class IP 54

THE ADDED VALUE

The laser head can both process sheet met materials on the main table and move to cut tube in the dedicated tube cutting area. The machin is the cost-effective solution for compan with a moderate throughput or limit working space, while productivity on bot the tube and sheet sides is equal to that o dedicated systems.

Parameter	HF3015 BP
Optic fiber laser source power	1000 ~ 6000 W
Working area dimensions	3000x1500mm
Maximum positioning speed X/Y axes	110m/min
Positioning accuracy X/Y axes	0.03mm/m
Repetition positioning accuracy X/Y axes	±0.02mm
Maximum acceleration X/Y axes	0.6 g
Track length Z axis	385mm
Maximum positioning speed Z axis	60m/min
Maximum acceleration Z axis	0.5 g
Maximum workpiece weight	0.8 t
Size / Weight of the machine	9800x6200mm / 9,5t

Parameter	Machine Tube HF3015 BP	
Tube cutting capacity mm	Round Ø 20-219 Oval 10×20 to 20×150	
Profile cutting capacity mm	Square dia 20-150 Rectangular 20x10 to 20x150 Angle and L shapes 20x20 to 130x130 Flat bar 20x5 to 150x15 UPN 20x20 to 130x130 Special sections and windows on request	
Processed metals	Carbon steel Stainless steel Galvanized Brass Copper	