



PROVIDER OF LASER & AUTOMATION
INTEGRATED SOLUTIONS

HF-B SERIES

Ultra High Power Fiber Laser Cutting Machine



COMPANY INTRODUCTION



Hymson Laser Technology Group Co.,Ltd founded in 2008, is a national high-tech enterprise, which integrates research and development, manufacturing, sales and service in laser and automation integrated solutions provider.



11
Subsidiaries



7000+
Employees Global



Hundreds
Patents



Thousands
Cooperative Enterprises



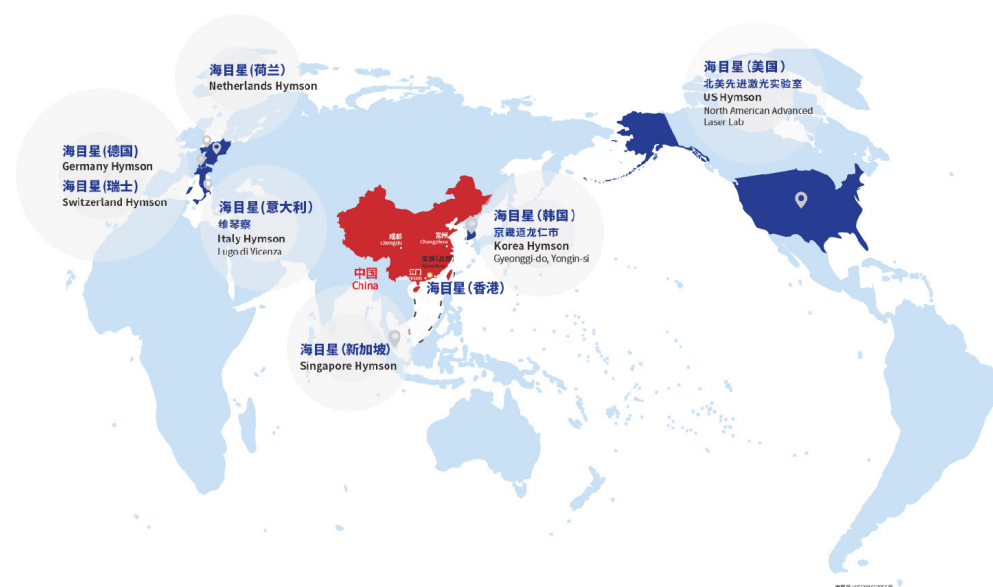
400 million
R&D Investment



40+
Global Service Centers

AS A GLOBAL ENTERPRISE

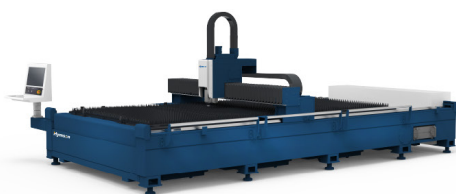
WE PROVIDE HIGH QUALITY AND EFFICIENT PRE-SALES AND AFTER-SALES SERVICE



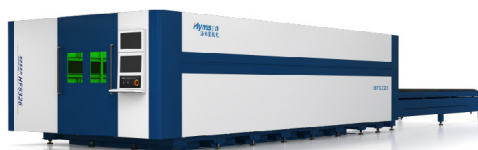
Transforming the Global Equipment Landscape
Advancing Human Intelligent Manufacturing

PRODUCT CATALOG

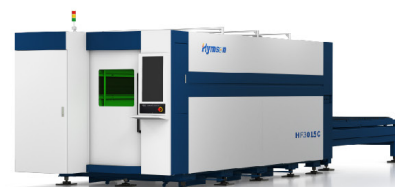
SHEET METAL LASER CUTTING MACHINE



HF-A SEIRES(Single Platform)

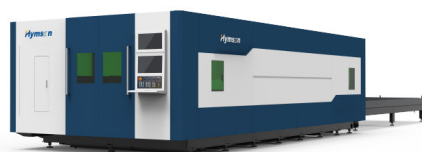


HF-B SERIES(High Power)

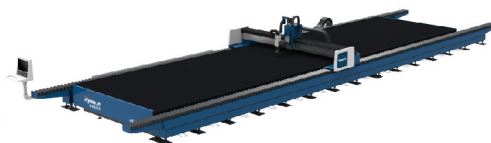


HF-C SERIES(Dual-platform)

SHEET METAL LASER CUTTING MACHINE



HF-G SERIES(Flagship Product)



HF-T SERIES(Large Format)



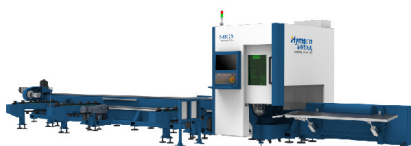
HP SERIES

SPECIAL PROFILE LASER CUTTING MACHINE

TUBE METAL LASER CUTTING MACHINE



MP SERIES(Professional)



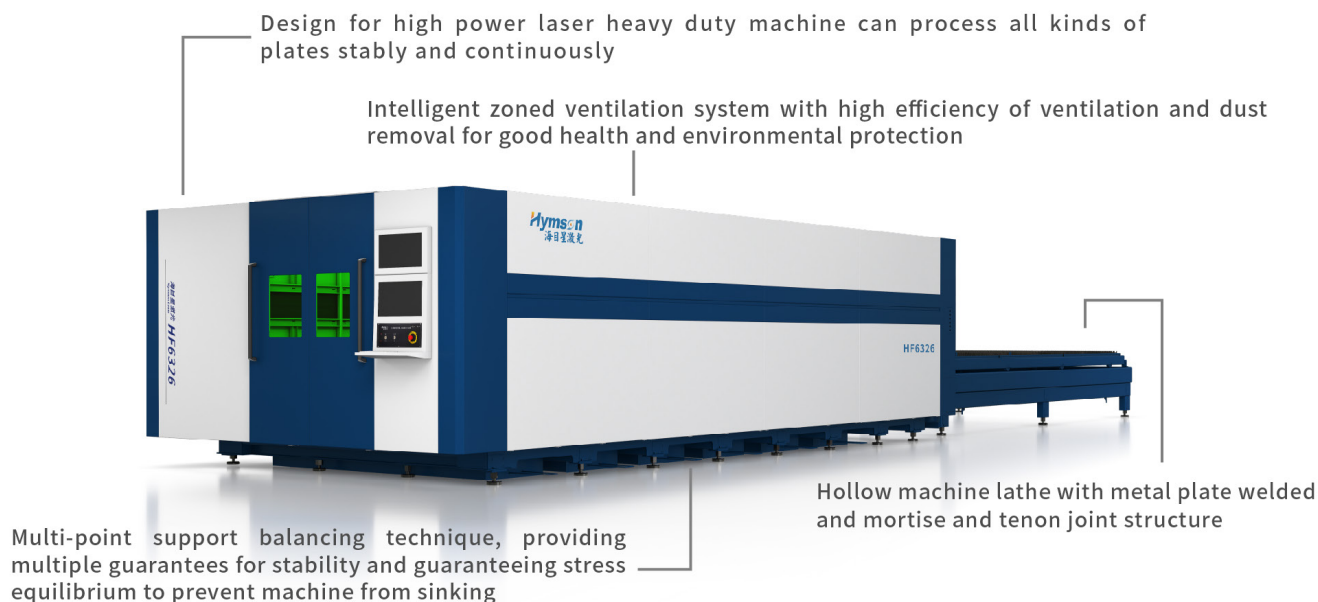
S SERIES(Standard)



TP SERIES(Heavy-duty)

HF-B SERIES

Ultra High Power Fiber Laser Cutting Machine



Core Configuration

Unit	Name	Model / Specification
I. Control Programming	Control System	FSCUT
	Machine Lathe	HF-B Honeycomb Heavy Duty Lathe
	Servo Motor and Drive	INOVANCE
II. Mechanical Drive	Precision Reducer	DESBOER
	Precision Toothed Rack	JT
	Precision Guide Rail	JW / ROUST

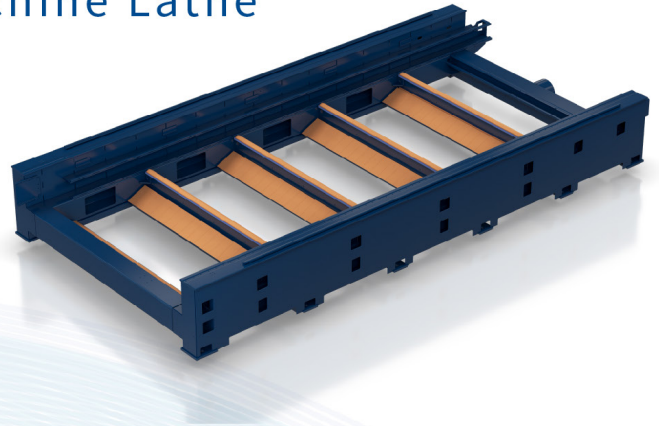
Unit	Name	Model / Specification
II. Mechanical Drive	Table Type	Shuttle Table
III. Pneumatic Control	Intelligent Pneumatic System	SMC
IV. Optical System	Fiber Laser	≤60000W
	Auto Zoom Cutting Head	HYMSON
V. Dedusting System	Intelligent Zoned Exhausting System	HYMSON
	Dedusting Fan	HYMSON

Performance Indexes

Equipment Model	HF3015B	HF4020C	HF6025C	HF8025C	HF12025C
Power	1500W-60000W	1500W-60000W	1500W-60000W	1500W-60000W	1500W-60000W
Effective Cutting Range	3000mmX1500mm	4000mmX2000mm	6000mmX2500mm	8000mmX2500mm	12000mmX2500mm
X/Y-axis Positioning Accuracy	±0.03mm/m	±0.03mm/m	±0.03mm/m	±0.03mm/m	±0.03mm/m
X/Y-axis Repositioning Accuracy	±0.02mm	±0.02mm	±0.02mm	±0.02mm	±0.02mm
Maximum Speed of X/Y-axis Linkage Positioning	140m/min	140m/min	110m/min	110m/min	110m/min
Maximum X/Y-axis Acceleration	1.5g	1.2g	1.0g	1.0g	0.8g
Floor Space of Main unit	8330mmX5700mm	10500mmX5900mm	15000mmX7000mm	20000mmX7000mm	30000mmX7000mm

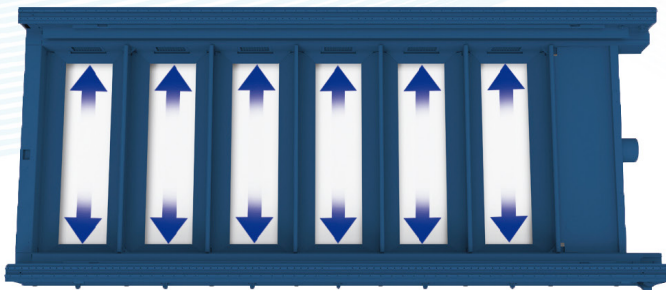
Fifth Generation High-Power High-Standard Intelligent Compensation Machine Lathe

- Hymson's patented hollow structure design, reduce heating area and reduce the impact of heat
- Welded with high strength standard sheets
- Undergone high temperature annealing treatment
- Multi-point support balancing technique, providing multiple guarantees for stability



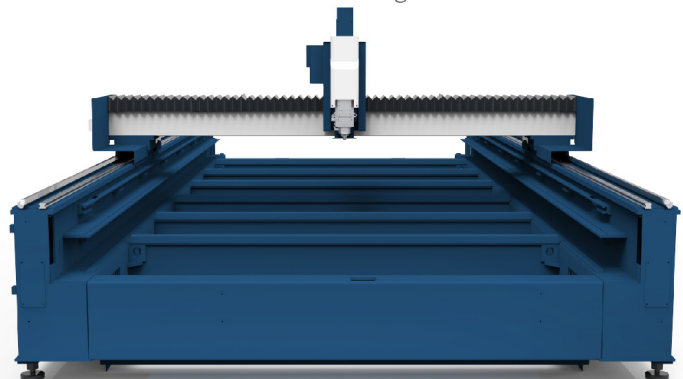
Zoned Ventilation System

- Adopting zoned and segmental ventilation, and using follow-up control to control the acts of cylinders in various zones
- Only the suction opening for the cutting operating range is opened



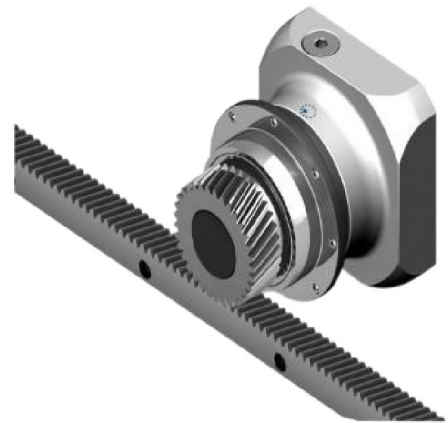
Adopting Dynamic Compensation Technology

- Adopting the thermal dynamic compensation technology to offset the impact caused by the degree of reference parallelism on both sides of the machine body in long-term use, thus guarantees cutting precision
- The thermal dynamic compensation technology can effectively protect the sliding block to reduce force suppression and bead blasting under force, thus guarantees the linear precision of operation and reduces the out-of-straight and out-of-round situations in cutting



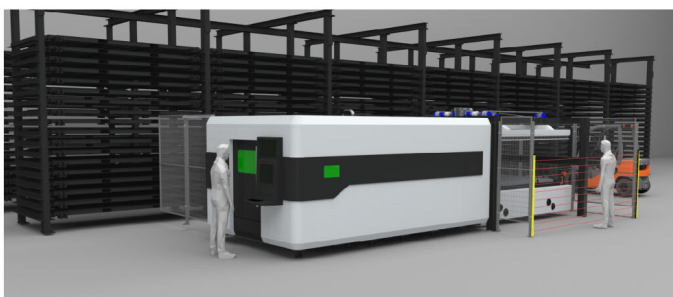
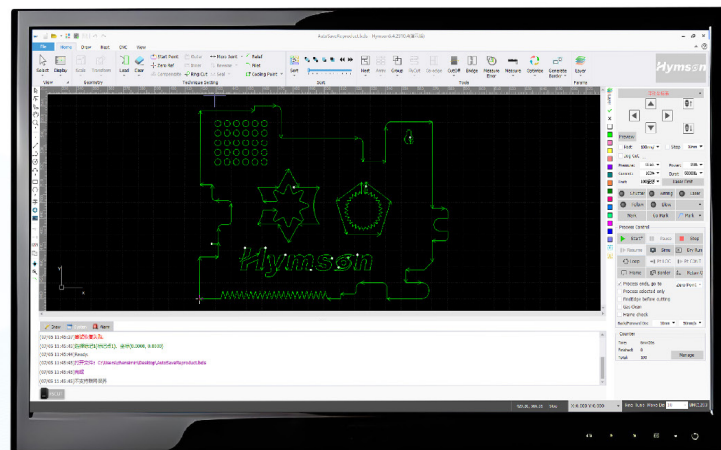
Precision Gear Drive

- Precision machined high precision pinions and racks
- Super high matching rate and precision, high bite rate
- Effectively reducing driving torque and eliminating vibration
- Adopting double drive gantry motion system for higher acceleration and faster movement speed

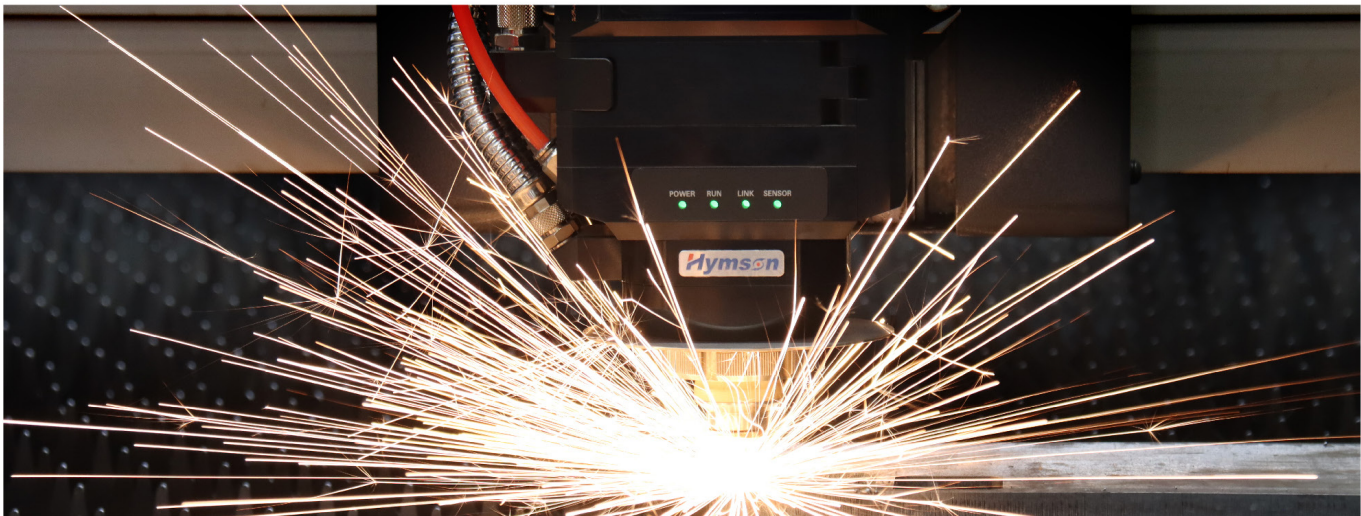


CNC Numerical Control System

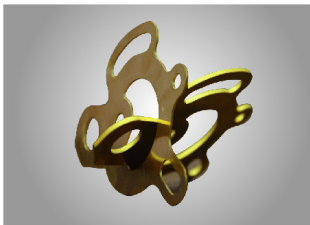
- FSCUT, applied to the flat laser cutting system, mainly contains the laser cutting technology processing, common nesting functions and laser processing control. The main functions include the graphic processing, parameter setting, custom cutting process editing, nesting, path planning, simulation, and cutting process control



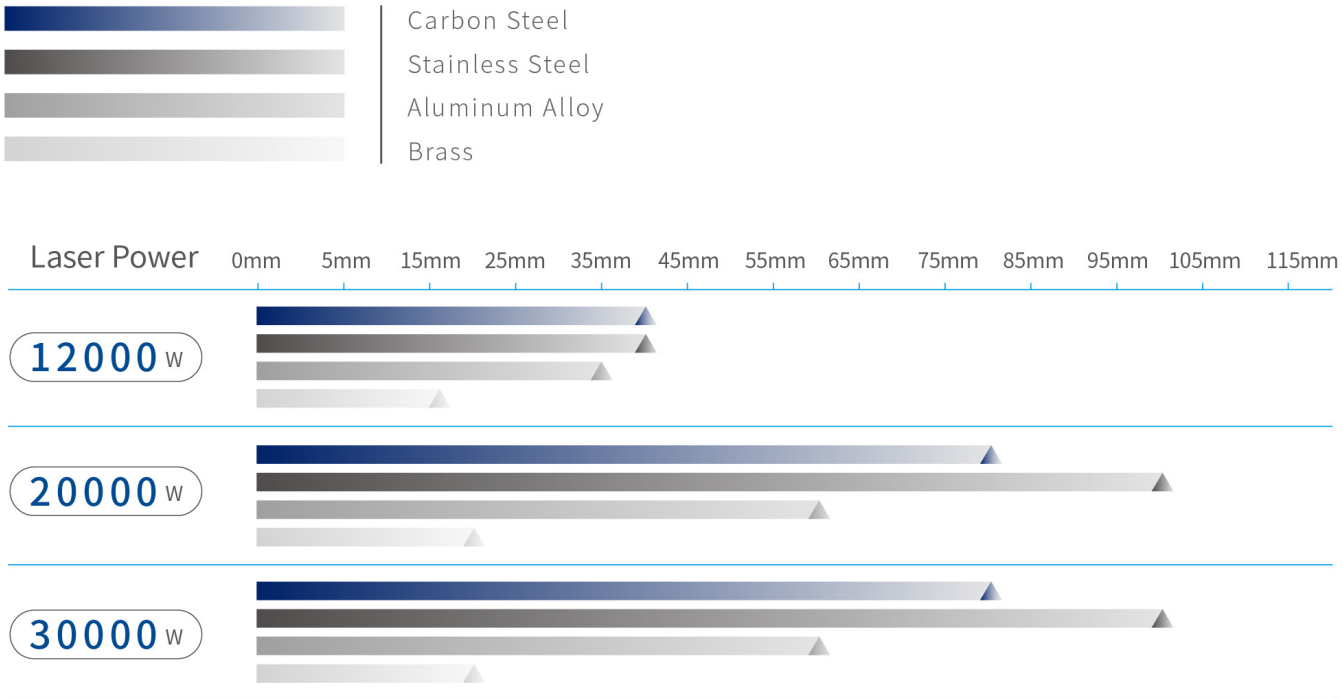
- The system can be combined with automatic loading and unloading production lines and flexible production lines of FMS laser cutting to support the automated production



Samples



Cutting Ability





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