

Laser Cutting Machine



Product Manual

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Product Overview

Our fiber laser cutting machine is a high-performance metal processing equipment integrating advanced optical, mechanical, electrical and gas technologies. Equipped with high-power fiber laser generator, intelligent control system and high-precision transmission components, it realizes efficient and precise cutting of various metal materials. The integrated professional cutting software Tube Pro seamlessly connects with nesting software Tubeest, providing one-stop solutions for pipe and sheet metal cutting, which can perfectly replace traditional cutting methods and significantly improve production efficiency and product quality.



Core Advantages

- Superior Vibration Damping Performance: Low stress and small deformation, ensuring stable operation even in high-intensity working conditions
- Precise Gas Supply System: High-purity gas source protects laser core components and improves cutting precision with accurate gas supply parameter matching
- Stable Temperature Control: High-precision temperature control system ensures stable laser output, laying a solid foundation for high-quality cutting
- High-Precision Positioning: Adopts high-precision linear guideway and helical rack, realizing ultra-high positioning accuracy and repeatability
- Efficient & Energy-Saving: Excellent photoelectric conversion efficiency reduces energy consumption, while high cutting speed greatly improves production capacity
- Intelligent Operation: Equipped with professional cutting software TubePro, supporting various pipe processing and seamless integration with nesting software, easy to operate
- Comprehensive Protection: Dual-temperature and dual-control cooling technology provides all-round protection for the laser system, extending equipment service life

Key Technical Parameters

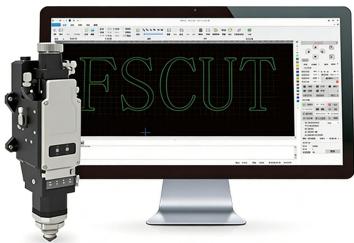
Model	Processing Range	X-axis Travel	Y-axis Travel	Z-axis Travel	Power	XY axis positioning accuracy	XY axis repeatability	Maximum positioning Speed
WWSH-3015A	3000*1500mm	1500mm	3000mm	140mm	1000-20000W	$\leq\pm0.03\text{mm/min}$	$\leq\pm0.02\text{mm/min}$	120m/min
WWSH-4015A	4000*1500mm	1500mm	4000mm	140mm	1000-20000W	$\leq\pm0.03\text{mm/min}$	$\leq\pm0.02\text{mm/min}$	120m/min
WWSH-4020A	4000*2000mm	2000mm	4000mm	140mm	1000-20000W	$\leq\pm0.03\text{mm/min}$	$\leq\pm0.02\text{mm/min}$	120m/min
WWSH-6015A	6000*1500mm	1500mm	6000mm	140mm	1000-20000W	$\leq\pm0.03\text{mm/min}$	$\leq\pm0.02\text{mm/min}$	120m/min
WWSH-6020A	6000*2000mm	2000mm	6000mm	140mm	1000-20000W	$\leq\pm0.03\text{mm/min}$	$\leq\pm0.02\text{mm/min}$	120m/min
WWSH-6025A	6000*2500mm	2500mm	6000mm	140mm	1000-20000W	$\leq\pm0.03\text{mm/min}$	$\leq\pm0.02\text{mm/min}$	120m/min

Standard Configuration



Air Compressor

- Precise matching of gas supply parameters
- The high-purity gas source can protect the core components of the laser and improve cutting precision



Control System: BOCHU FSCUT

- TubePro is a professional cutting software for machining various types of pipes.
- TubePro integrates seamlessly with the nesting software Tubeest.



Cooling System: HANLI Chiller

- 1. A high-precision temperature control system ensures stable laser output.
- 2. Dual-temperature and dual-control technology provides comprehensive protection for the laser system.

Application Fields

Applicable Materials: Carbon steel, stainless steel, aluminum alloy, galvanized sheet, copper and other metal materials

Applicable Industries: Automobile manufacturing, mechanical equipment, sheet metal processing, shipbuilding, agricultural machinery, construction machinery, advertising production, hardware manufacturing, etc.

After-Sales Service Commitment

- All equipment undergoes strict quality inspection before leaving the factory, providing whole-machine quality assurance service
- Free professional technical consultation and on-site operation training to ensure smooth equipment commissioning
- Rapid response maintenance mechanism: Timely arrange technical personnel to solve faults after receiving feedback
- Supply of original accessories with favorable price to ensure long-term stable operation of equipment