



Cutting | Bending | Welding | Automation



TL

❖ Four-chuck Heavy-duty Tube Laser Cutting Machine ❖

Company Culture



MISSION

Intelligent manufacturing changes future



VALUES

Customer-focused and employee-based



VISION

Become a respectable enterprise in the global metal forming equipment field

Company Profile



19

Global Branches



100+

Countries Covered



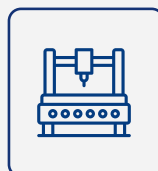
5

Manufacturing Bases



30+

Global Service Centers



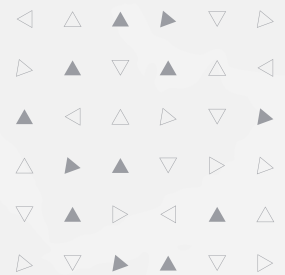
8,000+

Annual Capability



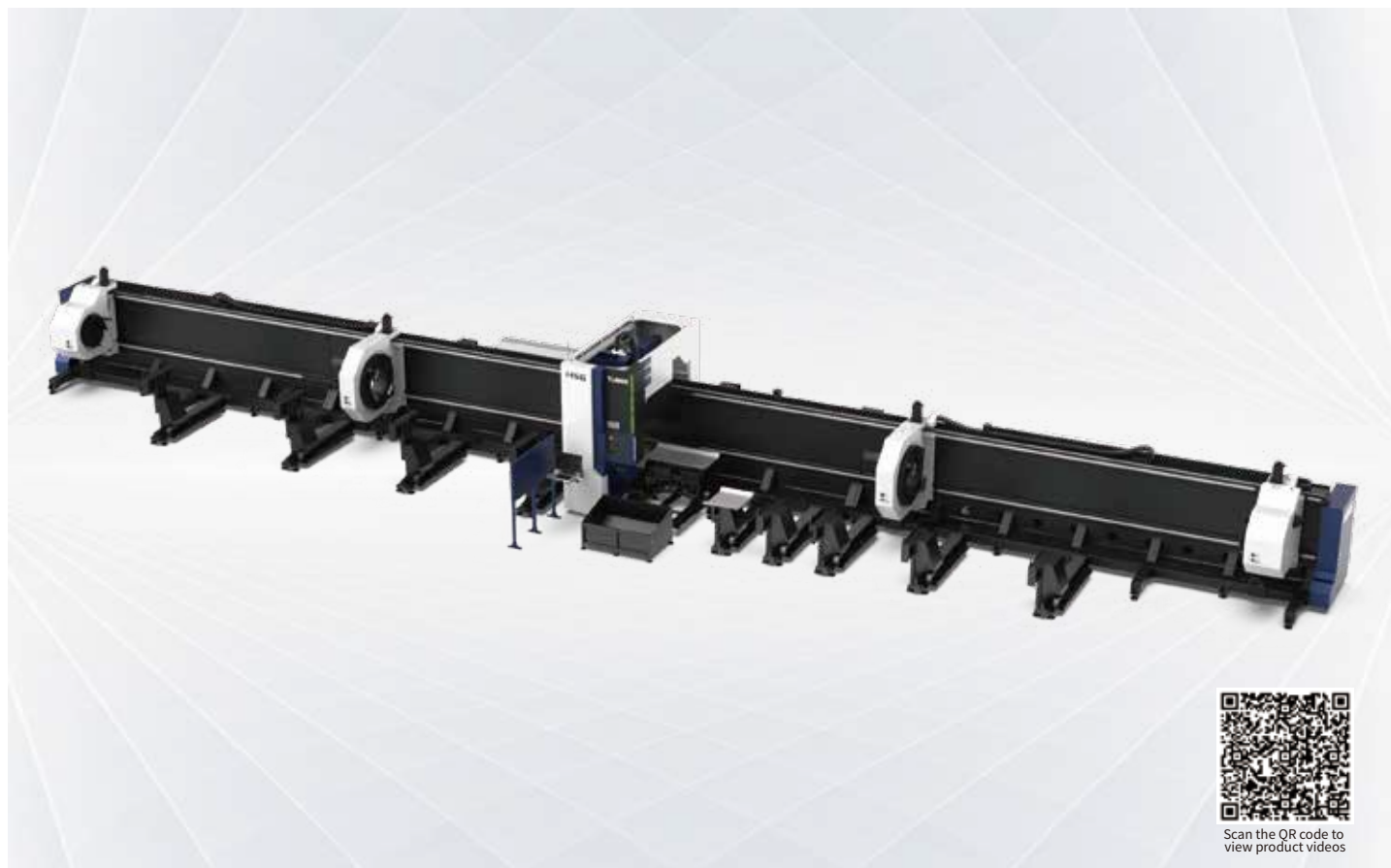
135,000m²

Occupied Area



TL 6000-20000W

Four-chuck Heavy-duty Tube Laser Cutting Machine



Scan the QR code to view product videos

Technical Parameters

Technical Parameter	TL360-12	TL660-12
Power	6000-20000W	6000-20000W
Rotating Speed of Chucks	60r/min	30r/min
Max. Linkage Speed	80m/min	50m/min
Max. Linkage Acceleration	0.6G	0.2G
X/Y-axis Positioning Accuracy	±0.05mm/m	±0.01mm/m
X/Y-axis Repositioning Accuracy	±0.05mm	±0.01mm
*Tailing Length	0	0
Cutting Capacity	Round tubeΦ40 - Φ360mm Square tube□40-250mm Diagonal≤360mm and Side Length ≥40mm	Round tubeΦ80 - Φ660mm Square tube□80*80 - □450*450mm Diagonal≤660mm and Side Length ≥80mm
Weight of Single Tube	1000kg	3000kg
Overall Dimensions(L*W*H) with Loading Racks	27000*5000*3100mm	29000*6000*4000mm
The range of pipe material	2000-12000mm	3000-12000mm

*Only when the nesting material is reasonable can it be achieved

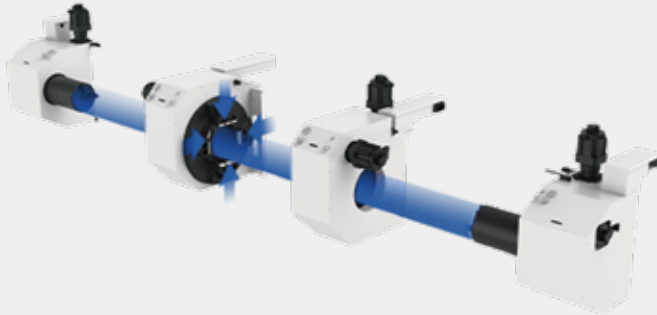
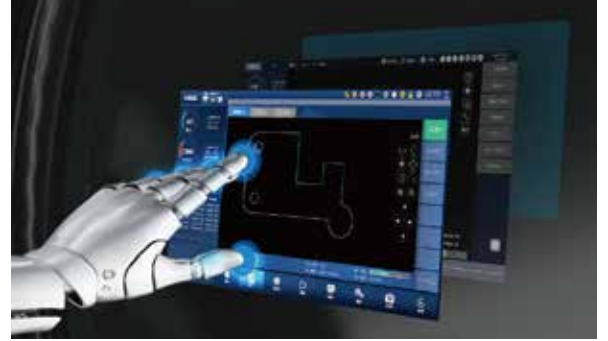
* Machine appearance, technical parameters, function description, data comparison shown in this page are from HSG in-house laboratory.

All testing results and experimental data shall be subject to real machine.

▶

X9800 Bus-based Tube Cutting Control System

- Simple Interface
Clear interface is convenient for users operating and shows cutting data in real time to save time and costs.
- Functional Integration Control
A number of core functions are showed centrally on the interface to reduce operating steps and users can easily learn to operate.



▶

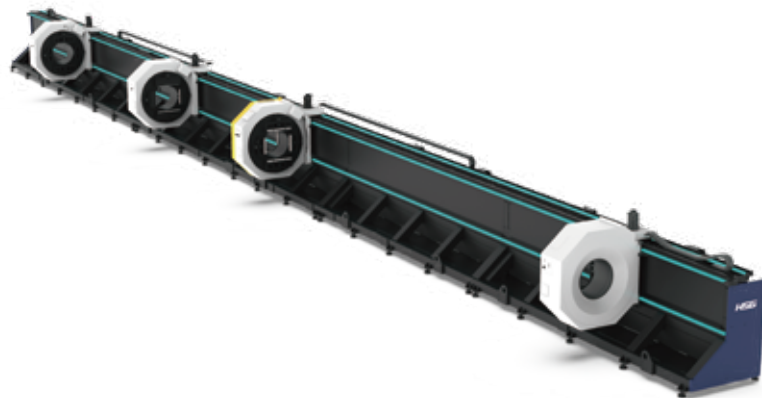
Four Chucks Structure

- HSG launches the first generation of four-chucks heavy-duty tube laser cutting machine in 2019, laying a groundwork for cutting heavy, large and long tube stably.
- Heavy-duty pneumatic chucks for stable clamping .
- Maximum clamping diameter: 500mm (Round Tube).
- Single tube bearing: 1200Kg.

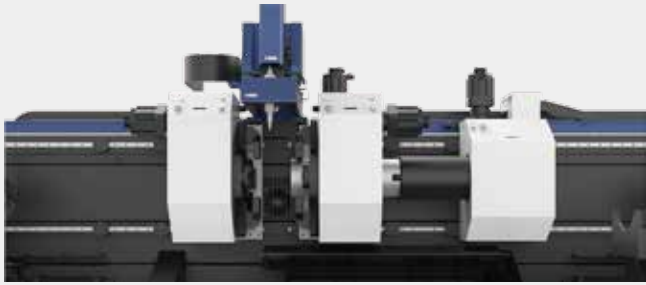
▶

4+1 Full-track Portable Chuck Structure

- Weight Capacity: 4000KG
- Clamping Range



(Model:TL660)



Cut with Short Tailings

- Four chucks combine ordinate cutting with various clamping types to achieve short tailing and improve material utilization ratio.
- Notes: When work procedures are well arranged, zero tailing comes true.



Power-off Cutting Restart Technology Database

- Foreign-imported servo motor contains an absolute encoder to offer power-off cutting restart function, namely, users only need to click to restart the cutting and power failure will not be worried.



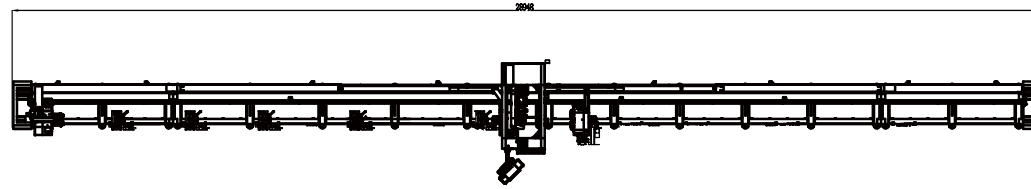
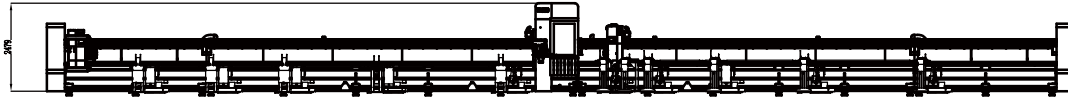
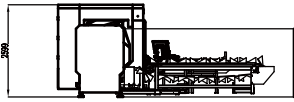
Various Tube Processing Functions

- Space leapfrog and fly cutting, in favor of the decrease of idle running of cutting head and the increase of cutting efficiency
Restart to cut from break-point, with less material waste
- Four-side centering for high cutting precision
- Smart typesetting algorithm to enhance material utilization



Machine Foundation

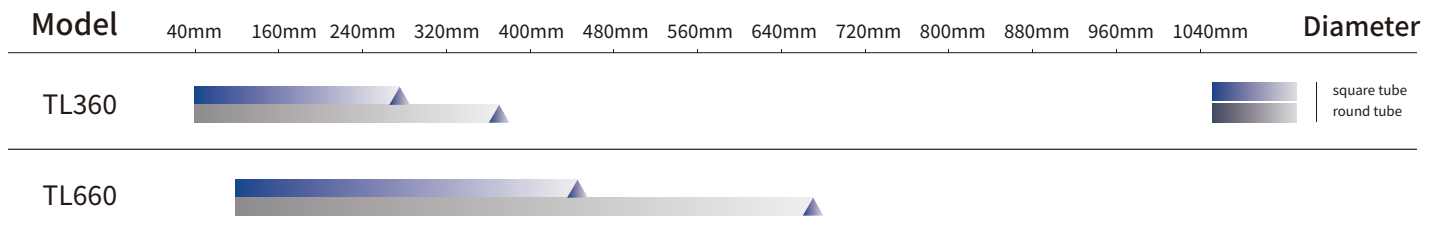
*The marked size has about 10mm error
 *Pictures of TL660 are for reference only and subject to actual dimensions.
 *The dimensions of the standard configuration of the machine are for reference only.
 Please refer to the three views of the order configuration for the actual machine dimensions.



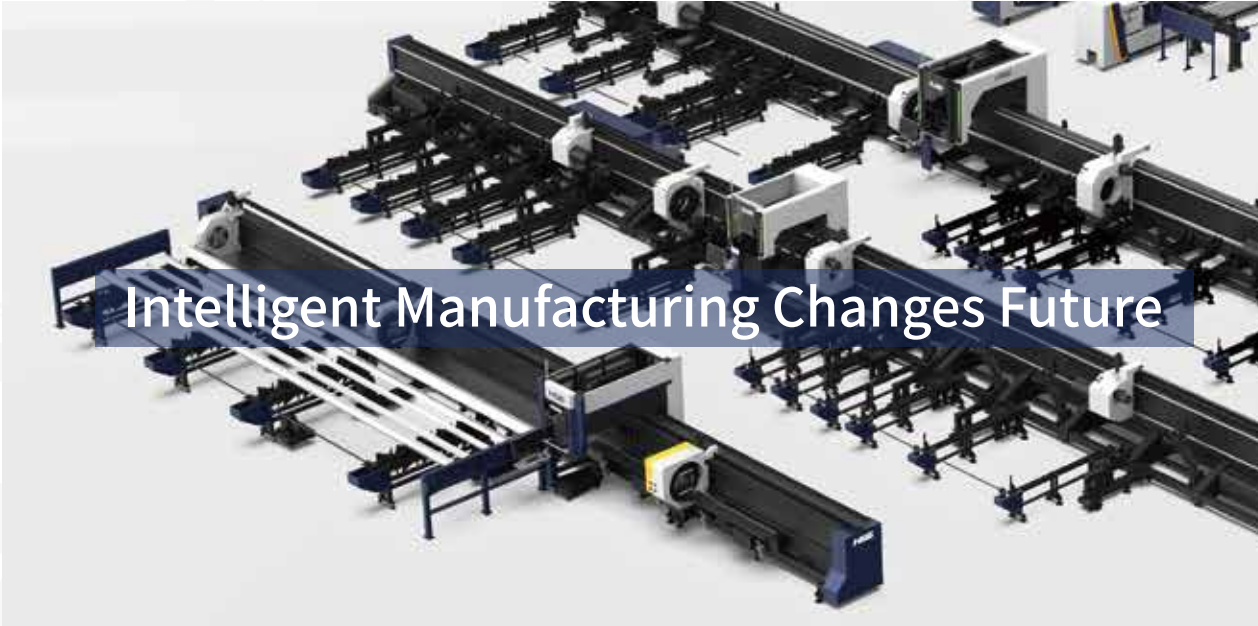
Cutting Samples



Cutting Capacity



The actual machines shall prevail and above data & pictures are only for reference.



Intelligent Manufacturing Changes Future



As a global enterprise, HSG sticks to providing professional and convenient service support to customers at home and board



Professional Training

Multiple technical training services and free operation training are provided for customers and dealers in a timely manner.



Efficient Support

Humanistic service model, online services and 7*24 hotline to offer solutions and assistance.



Optimized Transport

Multi-channel transport solutions and a professional transport solution team providing various transport cases to satisfy the demand of customers and save transportation fees.



Sufficient Accessories

Highly efficient accessory delivery service; multiple network inventories jointly respond to accessory demand, shortening customers' waiting times and accelerating production.



Careful Services

Domestic door-to-door service and free proofing, with over 100+ dealers providing efficient and convenient services.



Intelligent Manufacturing Changes Future



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