

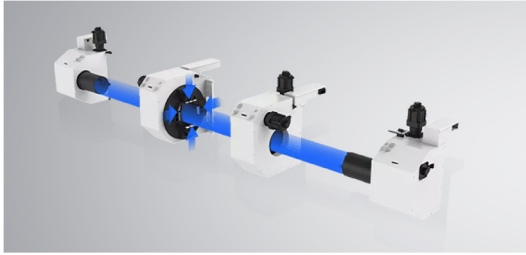
TL SERIES

Four-chuck Heavy Duty Tube Laser Cutter

6000 - 12000W



FEATURES



Four Chucks Structure

Designed for maximum stability and control when processing large, heavy, and long tubes. This configuration ensures firm clamping at multiple points, minimising vibration and deformation during cutting. With heavy-duty pneumatic chucks supporting long and heavy tubes, it enables precise, reliable performance.



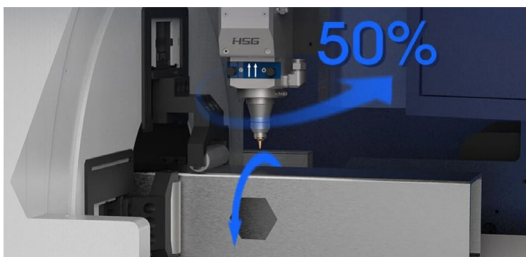
Cut with Short Tailings

By optimising the position and coordination of the chucks, the machine can cut much closer to the clamping area—significantly shortening the uncut tail end. This not only minimises scrap but also improves cost-efficiency across production runs.



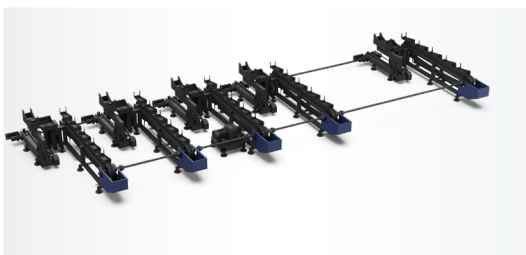
HSG-X Control System

HSG-X control system is bus-based and developed by HSG Laser. With intelligent and easy-to-operate service, it can offer users effective solutions to address problems of difficult operation, low efficiency and high costs.



Various Tube Processing Functions

HSG's intelligent cutting features—like space leapfrog, fly cutting, and break-point resume—boost speed and reduce waste. Four-side centering ensures accurate alignment, while smart nesting software maximises material efficiency.



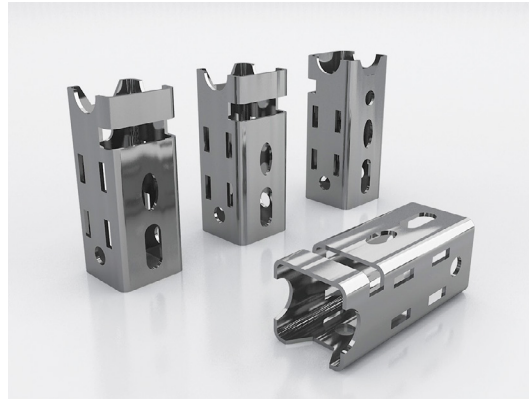
Automatic Loading (Optional)

An optional multi-functional loading system supports automatic loading of round tubes, rectangular tubes, section steel, and other profiles—enhancing loading speed and overall efficiency.

SPECIFICATIONS

Parameters		TL660	
Power (kW)		6 - 12	
Chuck Speed (RPM)		30 r/min	
Max. Linkage Speed		50 m/min	
Max. Linkage Acceleration		0.2G	
X/Y Axis Positioning Accuracy		±0.01 mm/m	
X/Y Axis Repositioning Accuracy		±0.01 mm	
X Axis Travel		≥ 12500 mm	
Y Axis Travel		≥ 680 mm	
Z Axis Travel		≥ 600 mm	
Tube Cutting Capacity	Round:	80 - 660 mm	
	Square:	80 - 450 mm	
	Rectangle:	Side length: ≥ 80 mm Diagonal: ≤ 660 mm	
	Angle Steel:	80 x 80 mm - 250 x 250 mm	
	Channel Steel:	250 - 80 mm - 400 x 104 mm	
	L Beam:	140 x 80 mm - 560 x 170 mm	
	H Beam:	100 x 100 mm - 400 x 400mm	
Max. Manual Loading Cutting Length		12500 mm	
Tube Length Range		3000 - 12000 mm	
Machine Weight (kg)	Without Loading Rack:	30000	
	With Loading Rack:	34000	
Loading Capacity (kg)		3000	
Total Power / Current		53kW / 105A (3000w) 63kW / 126A (6000w)	
Dimensions (LxWxH)		29000 x 6000 x 4000 mm	

CUTTING SAMPLES



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LASER MACHINES