

# TUBE METAL

## LASER CUTTING MACHINES



## Company Culture

### SLOGAN

Shape Metal, Shape Trust

### MISSION

Empowering customers for rapid business growth

### VISION

Committed to becoming a leading global provider of metal forming equipment and comprehensive solutions

## Company Profile



19

Global Branches



100+

Countries Covered



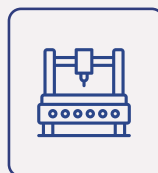
5

Manufacturing Bases



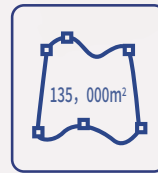
30+

Global Service Centers



8,000+

Delivery Capability



135,000m<sup>2</sup>

Occupied Area



# TL 6-20kW



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## FOUR-CHUCKS HEAVY-DUTY TUBE LASER CUTTING MACHINE



Four Chucks Commutation Cutting To Achieve Zero Tailing Processing



Automatic Loading And Unloading System Of Heavy-duty Tubes



HSG-X9800 Multiple Chucks Bus Technology

# 3+1 TWIN-CHUCKS TUBE LASER CUTTING MACHINE



3+1 Twin-chucks Clamping Technology  
Patent Number: ZL 202110887123.1



Multi-point Supporting Technology of Heavy-duty Tubes



Shaped Last Cut Technique



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# TX 6-20kW



# T Series Three-chuck 3-6kW



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## THREE-CHUCK TUBE LASER CUTTING MACHINE



Independent Servo Follow-up Support



Intelligent Bus Operating System



Fully Portable Three Chucks

## R1 1.5-3kW ▶



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## HIGH-SPEED TINY TUBE LASER CUTTING MACHINE



Born for Tiny Tube Processing



Follow-up Support for High Precision



Intelligent Bus Operating System

## DOUBLE-CHUCK UNIVERSAL TUBE LASER CUTTING MACHINE



Standard Configuration of Rectangular-circle Chucks, Supporting Various Tubes



Fabulous Dynamics Assist in Higher Productivity



HSG-X Bus Control System



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## R2 1.5-6kW ◀



## R3 Plus 1.5-6kW ◀



## ECONOMICAL TUBE LASER CUTTING MACHINE



Tiny Volume For Saving Spaces



Pneumatic Chuck Structure With One-click Opening And Automatic Centering



Double Rows Roller With Stable Clamping To Ensure Cutting Precision

▶  
**HEAVY-DUTY TUBE  
LASER CUTTING MACHINE**



Chuck Jumping for Short Tailings



Heavy-duty Side Lateral Machine Bed



Whole-track Rectangular-circle Chucks



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**TX PLUS** 3-12kW ▶



**TPS** 3-6kW ◀



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▶  
**TUBE BEVELING  
LASER CUTTING MACHINE**



HSG-LA4 Beveling Tube Cutting Head To Achieve 0-45° beveling Cutting



Safety Curtain And Dust Removal



Intelligent Digital Chucks

▶  
**HIGH-SPEED TUBE  
LASER CUTTING MACHINE**



Cut Tubes at High Speed



HSG-X Bus Control System



Various Tube Splicing Techniques



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**TS65** 3-6kW ▶



▶  
**ECONOMICAL AND HIGH-SPEED  
TUBE LASER CUTTING MACHINE**



Rectangular-circle Pneumatic Chucks



Tube Follow-up Support



Follow-up Unloading with Ventilation



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**TS2** 1.5-6kW ◀



# LIST OF TECHNICAL PARAMETERS

Model Technical Parameters	TL	TX	T Series Three-chuck	R1	R2
Power	6-20kW	6-20kW	3-6kW	1.5-3kW	1.5-6kW
Chuck Rotating Speed	30r/min	40r/min(TX12050) 60r/min(TX12036)	100r/min(T2) 80r/min(T3)	150r/min	100r/min
No-load Speed	50m/min	60m/min	100m/min(T2) 80m/min(T3)	150m/min	120m/min
Acceleration	0.2G	0.3G(TX12050) 0.6G(TX12036)	1G(T2) 0.8G(T3)	1.5G	1G
*Tail Length	0	0	0	Tailings in Single Chuck Clamping Model≥30mm	Tailings in Single Chuck Clamping Model≥85mm
Cutting Capacity	Φ80 - Φ660mm □80 - □450mm Diagonal≤660mm	TX12036: Φ40 - Φ360mm □40*40 - □250*250mm Diagonal≤360mm TX12050: Φ50 - Φ500mm □50*50 - □350*350mm Diagonal≤500mm	T2: Φ20-Φ240mm □20 - □240mm Diagonal≤330mm T3:Φ20 - Φ350mm □20 - □350mm Diagonal≤495mm	Φ8 - Φ120mm □8*8 - □120*120mm Side length: 8-120mm	Φ8 - Φ240mm □8*8 - □240*240mm Side length: 8-240mm
X/Y Positioning Accuracy	±0.01mm/m	±0.05mm/m	±0.03mm/m(T2) ±0.05mm/m(T3)	±0.05mm/m	±0.05mm/m
X/Y Repositioning Accuracy	±0.01mm	±0.05mm	±0.03mm	±0.03mm	±0.03mm
Max. Loading Capacity(Single)	About 3000kg	About 1200kg(TX12036) About 1500kg(TX12050)	About 300kg(T2) About 600kg(T3)	About 50kg	About 300kg
The range of pipe material	3000-12000mm	2000-12000mm(TX12036) 2500-12000mm(TX12050)	1000-7000mm(T2) 1000-9000mm(T3)	1000-6500mm	1000-6500mm

Model Technical Parameters	R3 Plus	TX Plus	TP65S	TS65	TS2
Power	1.5-6kW	3-12kW	3-6kW	3-6kW	1.5-6kW
Chuck Rotating Speed	90r/min	60r/min	120r/min	120r/min	100r/min
No-load Speed	90m/min	80m/min	140m/min	120m/min	100m/min
Acceleration	0.8G	0.6G	1.2G	1.2G	1.0G
*Tail Length	Tailings in Single Chuck Clamping Model≥85mm	Tailings in Single Chuck Clamping Model≥110mm	Tailings in Double-chuck Clamping Model≥220mm	Tailings in Double-chuck Clamping Model≥150mm	Tailings in Single Chuck Clamping Model≥85mm
Cutting Capacity	Φ20 - Φ325mm □20*20 - □230*230mm Diagonal≤325mm	Φ20 - Φ360mm □20*20 - □360*360mm 20≤Side Length≤360mm	Φ20 - Φ273mm □20*20 - □200*200mm Diagonal: ≤273mm	Φ12 - Φ273mm □12*12 - □200*200mm Diagonal≤273mm	Φ20 - Φ240mm □20*20 - □240*240mm Side Length: 20-240mm
X/Y Positioning Accuracy	±0.05mm/m	±0.05mm/m	±0.03mm/m	±0.03mm/m	±0.03mm/m
X/Y Repositioning Accuracy	±0.03mm	±0.05mm	±0.03mm	±0.03mm	±0.03mm
Max. Loading Capacity(Single)	About 200kg	About 1000kg	About 200kg	About 200kg	About 200kg
The range of pipe material	1000-6500mm	1000-6500mm(TX65 PLUS) 1000-9000mm(TX90 PLUS) 1000-12000mm(TX120 PLUS)	1000-6500mm	1000-6500mm	1000-6500mm

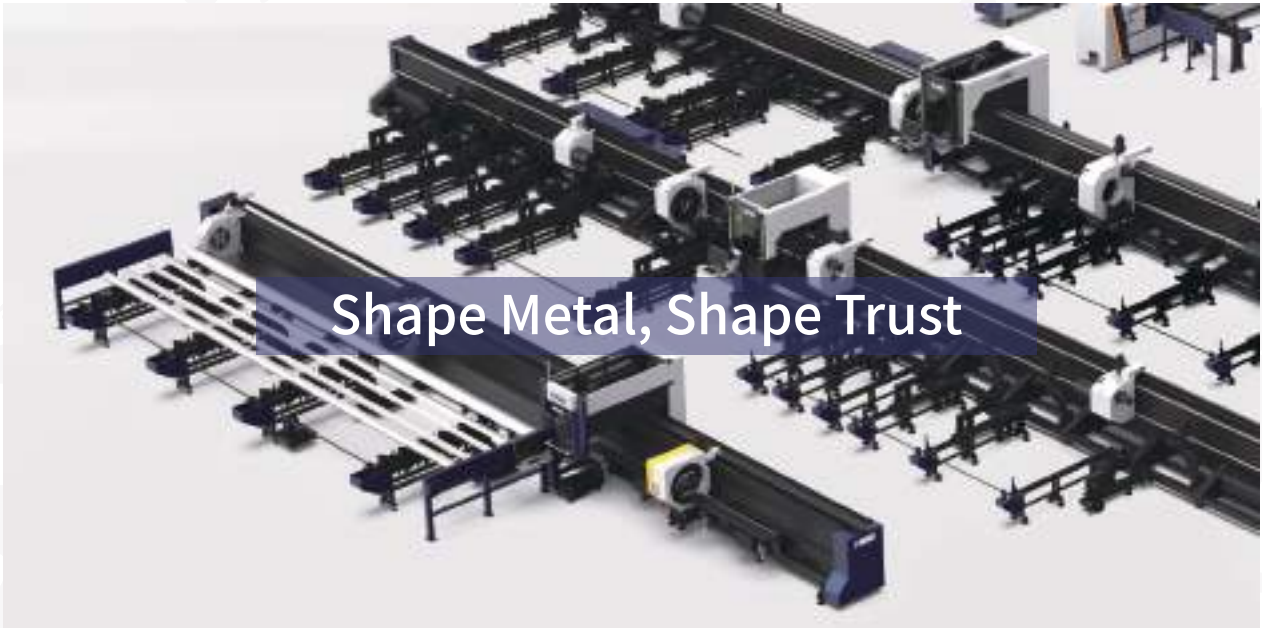
\*All testing results and experimental data shall be subject to real machine.

\*Zero tailing can be achieved only when the nesting material is reasonable(TL).

\*Single chuck clamping can be achieved, in the case of reasonable nesting material(TX/T Serie three-chuck).

\*The appearance and effect of the products displayed on this page are for reference only, and the specific model sold shall prevail.

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



## Shape Metal, Shape Trust



**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.

# HSG

Shape Metal, Shape Trust



Website



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