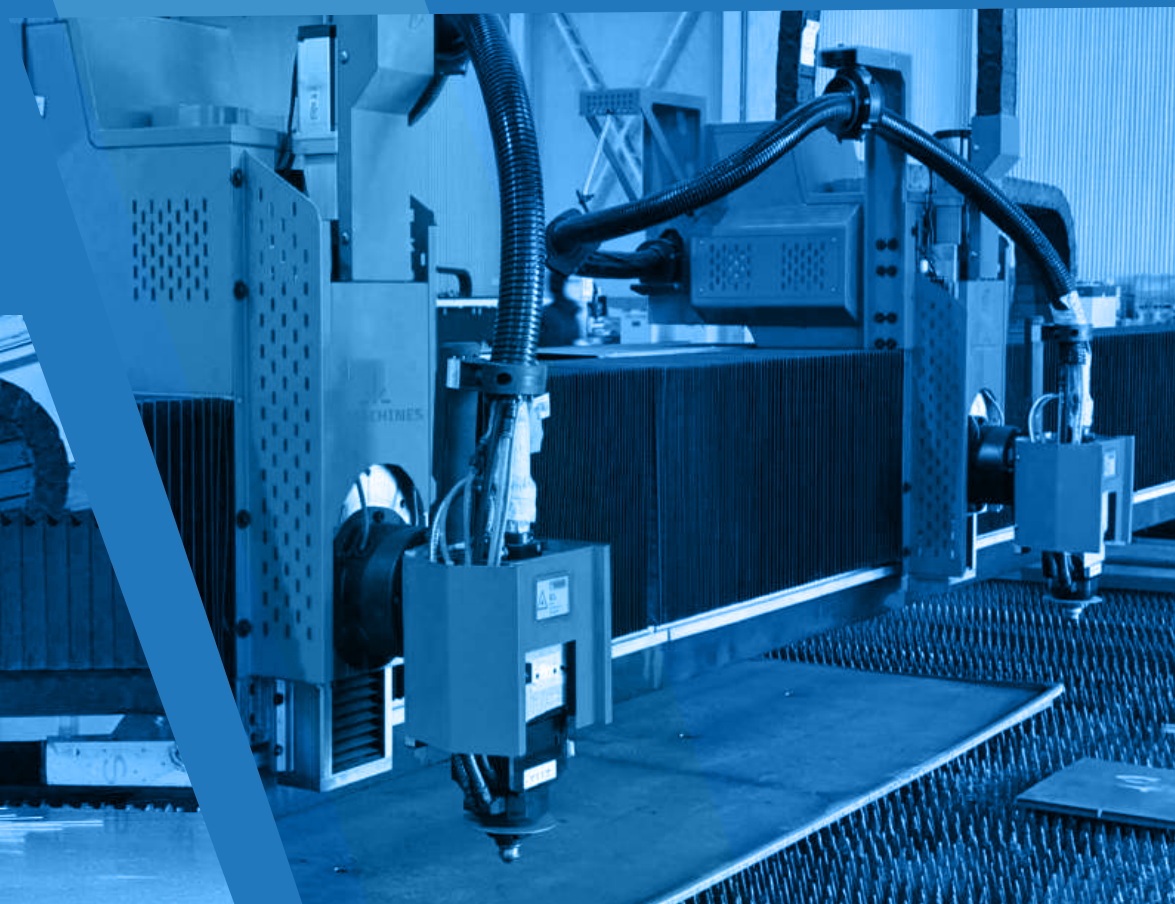
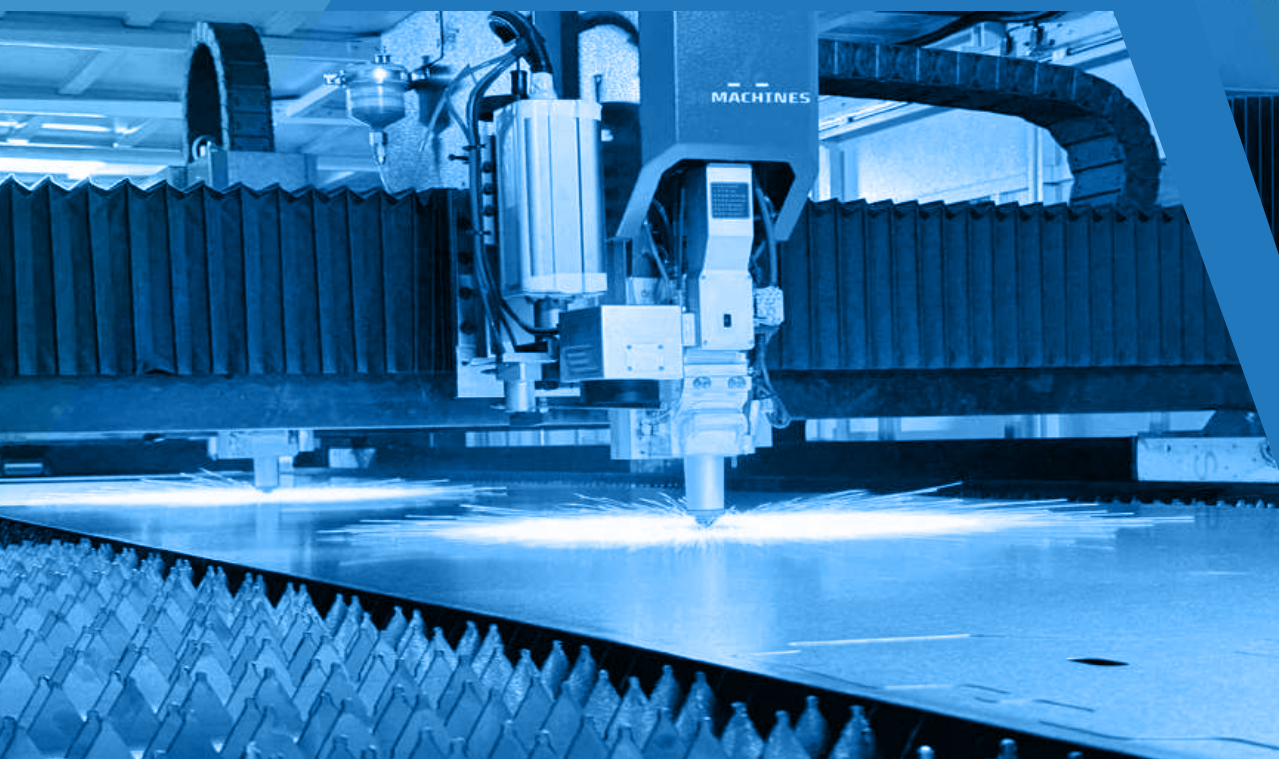


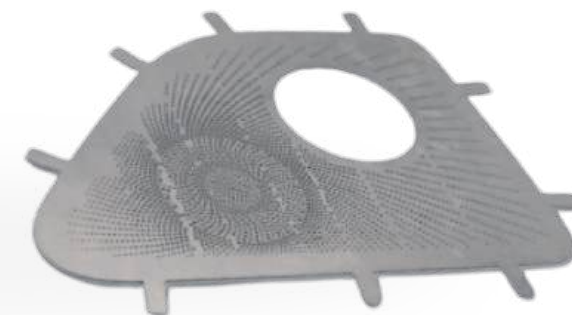


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OUR EXPERIENCE FOR YOUR BENEFITS

# HIGH LEVEL LASER CUTTING MACHINES



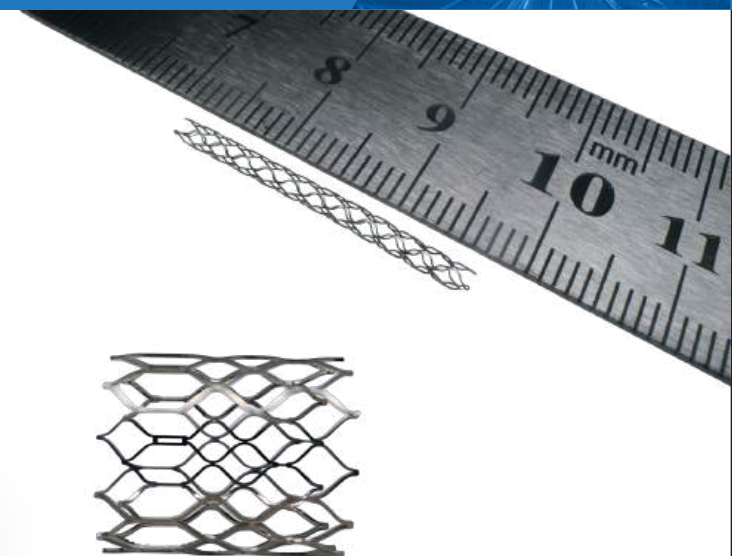


### Tube laser cutting machine SPR series

Maximum running speed	500mm/s (X); 500mm/s (Y1&Y2); 50mm/s (Z)
Positioning accuracy	±3um(X)±3um(Y1&Y2);±5um(Z)
Repeat positioning accuracy	±1um(X);±1um(Y1&Y2);±3um(Z)
Processing material	304&316L&Ni-Ti&L605&Li&Mg&Al&Cu&Fe& Ceramic and other materials
Plane processing range	450*600mm / 600*800mm
Laser type	Fiber laser
Laser power	100 / 200 / 250 / 300 / 500 / 1000W
Compatible file formats	DXF&DWG
Device dimensions	1,3m*1,3m*1,6m / 1,3*1,5*1,6m
Device weight	1500kg / 1700kg

- Used for laser cutting of medical stent and other medical devices, semiconductors, electronic 3C and automobile parts
- Can process various materials such as aluminum, copper, tungsten, molybdenum, nickel, titanium, zinc, magnesium, magnet, silicon steel, powder metallurgy copper, silver, gold, etc.)
- Equipped with direct-drive mobile double-drive precision motion platform, granite platform, aluminum alloy beam and granite base
- Provide optional functions such as visual positioning & processing dynamic monitoring
- Equipped with long & short focal length fine laser cutting head





### High precision tube laser cutting machine PPR series

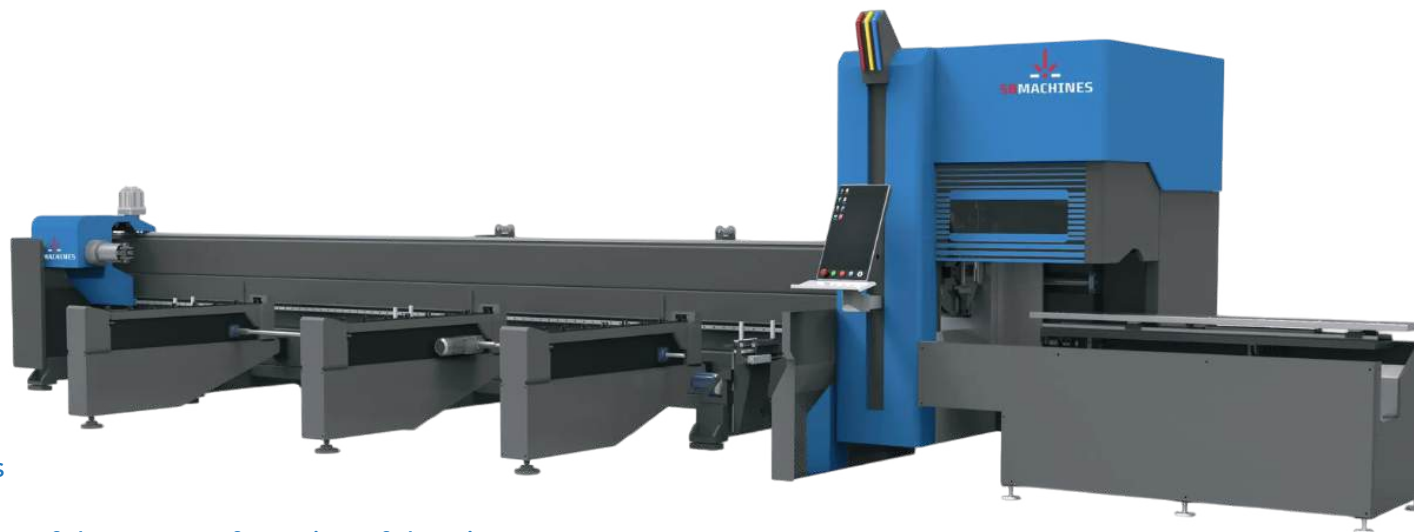
	PPRH3007.5	PPR3007.5/PPR60016
Maximum operating speed	300mm/s(X) ; 100mm/s(Y) for option ; 100mm/s( Z); 600rpm	300mm/s(X) ; 100mm/s(Y) for option ; 100mm/s( Z); 600rpm
Positioning accuracy	±1um( X);± 3um( Y) for option;± 3um( Z);± 15arcsec	±3um( X);± 3um( Y);± 3um( Z) ; ±15arcsec
Repeat positioning accuracy	±0.2um( X);± 1um( Y) for option;± 1um( Z);± 3arcsec	±1um(X);±1um(Y);±1um(Z); ±3arcsec
Cutting seam width	15um~25um	15um~30um
Processing material	316L & Ni-Ti & L605 & Fe & Mg & Zn and other alloy materials	304, 316L, Ni-Ti, L605 and other alloys
Processing wall thickness	0~0.3±0.02 mm	0~1.0±0.02 mm
Pipe processing diameter	0.1~7.5 ±0.02mm	0.3-7.5 / 1.0 - 16.0 ± 0.02 mm
Processing length	0 - 300mm (longer products will be processed by segmented splicing)	0 - 300mm / 0 - 600mm (longer products will be processed by segmented splicing)
Laser type	Fiber laser	Fiber laser
Laser power	100 / 200 / 250 / 300 / 500W	100 / 200 / 250 / 300 / 500 / 750 / 1000 W
Device dimensions	2m x 1,25m x 1,75 m	2m x 1,5m x 2m
Device weight	1500kg	1800kg/2000kg

- Micro laser machining of thin-walled metal tubes and high reflective metallic materials (aluminum, titanium, copper, silver, gold, etc.)
- Used for laser cutting of medical stent and other medical devices, semiconductors, electronic 3C and automobile parts
- Unique high precision machining. Small cutting width: 15~30um. High precision tolerance
- Strong adaptability
- Supports the processing of centripetal, vertical and composite opening features of equal-diameter tubes, reducing tubes and planar instruments
- Combined precision thin-walled tube bushing support system using adaptive shape tolerance changes. Provide supporting solutions such as continuous automatic feeding processing of precision thin-walled tubes
- Equipped with laser micromachining CAM software system

## An innovative universal and economical machine due to two movable high-speed chucks

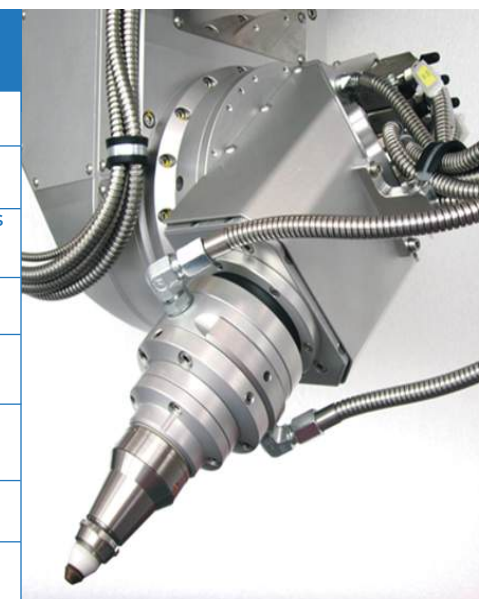


- Two movable chucks
- 0 mm tail
- Automatic positioning of the center of rotation of the pipe
- Various profile cutting: Round and Square tubes, Channels, Angle bars, H-beams
- Options: bevel cutting head, weld recognition, automatic loading

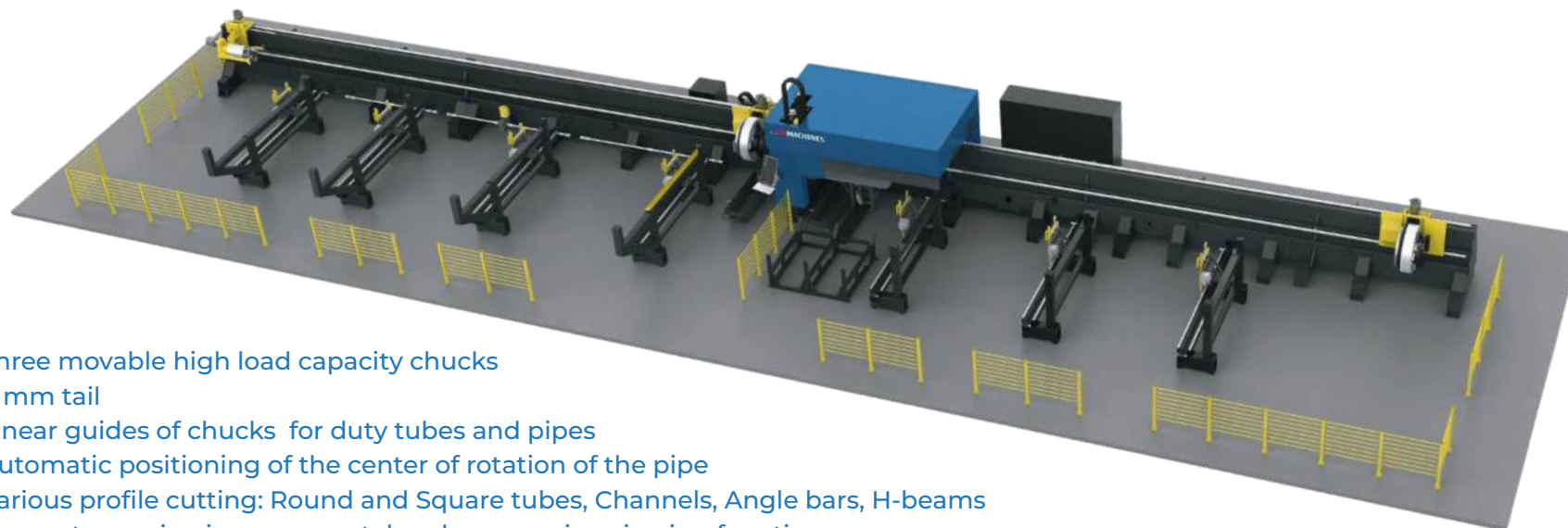


Tube laser cutting machine PT series

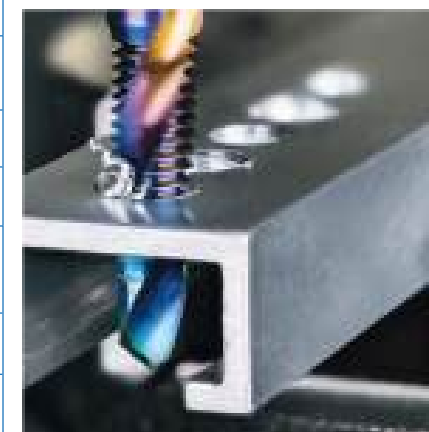
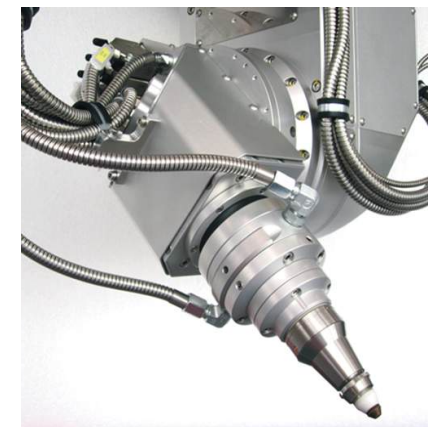
Item	PT-120	PT-160	PT-230	PT-280	PT-350
Diameter of tube, mm	15-120	15-160	15-230	15-280	15-350
Profile section size, mm	section of a profile that fits within a circumscribed circle 120	section of a profile that fits within a circumscribed circle 160	section of a profile that fits within a circumscribed circle 230	section of a profile that fits within a circumscribed circle 280	section of a profile that fits within a circumscribed circle 350
Loading length max., mm	6500/7500	6500/7500/9000/12000	6500/7500/9000/12000	6500/7500/9000/12000	7500/9000/12000
Weight of tube max., kg	80	120	200	300	600
Chuck rotating speed	150	130	100	70	70
Chuck acceleration max, G	1.5	1	1	0.8	0.8
Laser source	IPG/Raycus/Max 1-12kW	IPG/Raycus/Max 1-12kW	IPG/Raycus/Max 1-12kW	IPG/Raycus/Max 1-12kW	IPG/Raycus/Max 1-12kW



# An innovative of equipment specifically designed for high efficiency and precision in heavy and large tube and pipe manufacturing



- Three movable high load capacity chucks
- 0 mm tail
- Linear guides of chucks for duty tubes and pipes
- Automatic positioning of the center of rotation of the pipe
- Various profile cutting: Round and Square tubes, Channels, Angle bars, H-beams
- Supports prepiercing, segmental and progressive piercing functions
- IGES, SAT, Step
- Options: bevel cutting, weld recognition, drilling, tapping and etc.

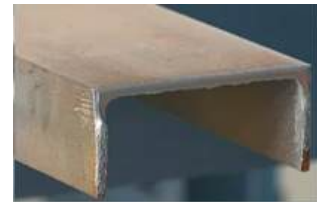


Tube and profile laser cutting machine PHTS series

Item	PHTS-12028	PHTS-12035	PHTS-12045	PHTS-12050	PHTS-12065
Diameter of tube, mm	20-280	20-350	20-450	20-500	50-650
Profile section size, mm	section of a profile that fits within a circumcircle 280	section of a profile that fits within a circumcircle 350	section of a profile that fits within a circumcircle 450	section of a profile that fits within a circumcircle 500	section of a profile that fits within a circumcircle 600
Loading length	12000 (9000 option)	12000 (9000 option)	12000 (9000 option)	12000 (9000 option)	12000 (9000 option)
Weight of tube	350	600	1100	1600	2000
Chuck rotating speed maximum, rpm	150	130	100	70	70
Chuck acceleration max, G	1.5	1	1	0.8	0.8
Laser source	IPG/Raycus/Max 1-12kW	IPG/Raycus/Max 1-12kW	IPG/Raycus/Max 1-12kW	IPG/Raycus/Max 1-12kW	IPG/Raycus/Max 1-12kW



# HCA125 - three-dimensional five-axis intelligent profile laser cutting station specially developed for cutting H-beams, I-beams, angle steels, channel steels and other types



HCA125

Cut H-shaped steel to length, mm	Raw material length 5000~12000; cutting length 1000~12000	
Cutting H-shaped steel specifications, mm	150x150~1200x500	
Maximum operating speed of feeding clamp,	30	
Machine size( L*W*H), mm	about 38000x8000x4000	
Laser power, kW	12 or 20	
The cutting torch moves up and down (Z axis)	Moving stroke, mm	1000
	Maximum movement speed, m/min	20
CNC feeding trolley	Maximum feeding weight, kg	8000
	Meet the longest workpiece length, m	12
	Maximum feeding speed, m/min	40
	10m shipping accuracy, mm	±1

- It can perform laser pattern cutting, hole opening, locking, beveling, and engraving on the entire profile. Line, cut off, etc.
- Loading and unloading rollers move profile through cutting station automatically.
- Can carry out various overlapping bevel cutting processes such as hole making, locking, lip-shaped cutting, etc. on the profile.
- Automatic optimization of trajectory paths, 3D component preview, and component arrangement optimization.
- Laser scanning shape detection solves workpiece shape deviation and improves processing accuracy.
- Solve the problem of big thickness perforation, with dynamic perforation function to protect the cutting nozzle and increase the service life of consumable parts.

## HC108 semi automatic three-dimensional five-axis H-beam laser cutting equipment

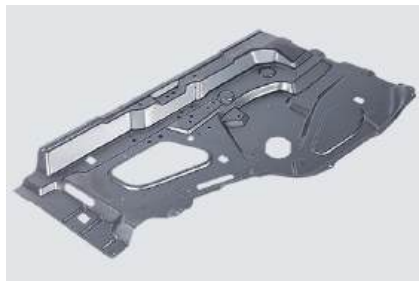


HC 108

HC 108	
Processing profile range, max	length 12 500 mm, width 1 500 mm, height 600 mm
X, Y, Z axes length	26 000 mm, 3 000mm, 1 200mm
A, C axes of rotation	$\pm 90^\circ$
Maximum positioning speed	80m/min
Sheet size (option)	12000x3000mm
Laser power	12 or 20 kW

- Intelligent RTCP calibration used to correct the five-axis mechanical accuracy in the equipment debugging stage, and can ensure the accurate cutting positioning in the subsequent cutting process after the debugging is completed.
- BCW profile scanning function can scan the profile before processing, transfer the data to the processing system in real time, complete the point cloud computing of the scan track in real time, real-time modeling, clear the deformation area of the steel (that appears during cutting), real-time compensation, to ensure the smooth cutting.
- Compared with traditional nesting material, it can save material
- Over welding hole cutting processing function can directly cut the over-welded hole, and through process debugging, different root effects can be cut according to demand.
- Professional nesting of section steel, digital factory management, etc.

## 5-axis laser cutting machine



5-axis laser cutting machine

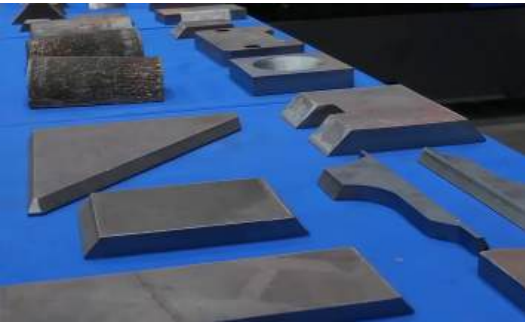
Item	JT cell 3015	JT cell 4020
Work area	3000mm*1500mm	4000mm*2000mm
Maximum three-dimensional cutting range	3000*1500*620mm	4000mm*2000mm*620mm
Laser power	3KW-6KW(Optional)	
Travel on the XYZ/C/B/WA axes	3010mm/1510mm/625mm/ Unlimited Spins/±135%±12mm	4020mm/2020mm/625mm/ Unlimited Spins/±135%±12mm
XYZ axis positioning accuracy	±0.05mm/m	
XYZ axis repeat positioning accuracy	±0.05mm	
Maximum XYZ axis positioning speed	Single axis: 100 m/min Gear: 156 m/min	
Maximum acceleration	1.0G	1.2G



- A full range of RTCP laser point space control, including a variety of different types of five-axis link data model mechanical structures
- The specialized database system only needs to input the cutting thickness and material, and the cutting parameters can be automatically generated
- The machine tool has a fault self-diagnosis function to quickly find faults
- Supports automatic cutting of a variety of corners



## Economic model of single table laser cutting machine



Sheet laser cutting machine SS series

Item	SS-3015	SS-4015	SS-4020	SS-6020	SS-6025
Sheet size, mm	3000x1500	4000x1500	4000x2000	6000x2000	8000x2500
X Y axis positioning speed, m/min	100				
X Y max acceleration, G	1.4				
X Y positioning accuracy, mm/m	±0.03				
X Y re-positioning accuracy, mm	±0.03				
Laser source	IPG/Raycus/Max 1-12 kW				
Cutting gases	Air, N2, O2				

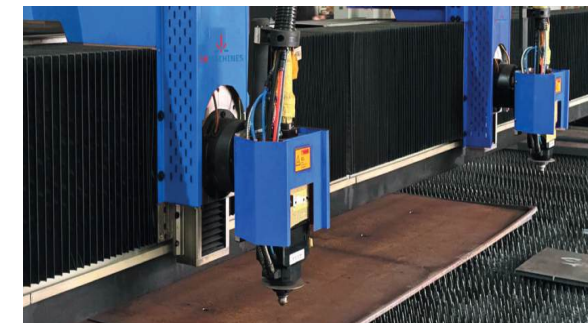
- Rigid and stable for high acceleration and laser source power.
- High precision parts: reducer, rack and pinion, linear guides
- Options: bevel cutting head



# High power huge size sheet single table laser cutting machine



Optional function bevel cutting  
V, X, Y and K shapes



## Gantry type sheet laser cutting machine SG series

Item	SG-6025 – SG 26560
Sheet size, mm	width range 2500 - 6000 mm (step 500mm), length 6000 - 26500mm (step 500mm)
X Y axis positioning speed, m/min	100
X Y max acceleration, G	1 (option 1,4)
X Y positioning accuracy, mm/m	±0.05
X Y re-positioning accuracy, mm	±0.05
Laser source	IPC/Raycus/SBMachines 12 - 120 kW
Cutting gases	Air, N2, O2

- Get the benefits of high power cutting – reduce your cutting time and improve productivity
- High loading capacity separated working structure
- High precision parts: reducer, rack and pinion, linear guides
- High power drivers
- Intelligent process system, one button operation, improve processing efficiency
- Automatic edge finding, intelligent piercing, cutting detection, senseless cutting, obstacle avoidance
- Options: bevel head, scrap scanner

# High power high-speed sheet double table laser cutting machine up to 80 kW



Scrap scanner option



Optional function bevel head



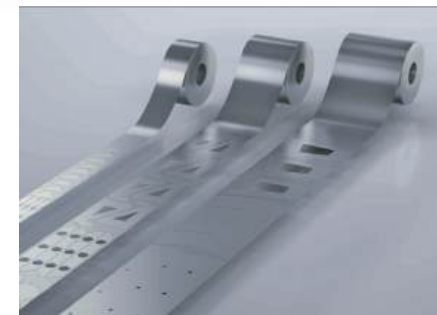
Sheet laser cutting machine SD series

Item	SD-3015	SD-4020	SD-6025	SD-8025	SD-10025	SD-12025	SD-12526	SD-13030
Diameter of tube,mm	3000x1500	4000x2000	6000x2500	8000x2500	10000x2500	12000x2500	12000x2600	13000x3100
X Y axis positioning speed, m/min	180							
X Y max acceleration, G	2 (2,5 option)				2			
X Y positioning accuracy, mm/m	±0.03				±0.05			
X Y re-positioning accuracy, mm	±0.03				±0.03			
Laser source	IPG/Raycus/Max 1-80 kWkW							
Cutting gases	Air, N2, O2							

- Get the benefits of high power cutting – reduce your cutting time and improve productivity
- High precision parts: reducer, rack and pinion, linear guides
- High power drivers
- Intelligent process system, one button operation, improve processing efficiency
- Automatic edge finding, intelligent piercing, cutting detection, senseless cutting, obstacle avoidance
- Options: bevel head, hydraulic table lifting system



**Widely used, suitable for a variety of industries, thickness up to 2 mm**  
**Cost-effective**  
**Highly efficient parts ultra long nesting and saving of working time**  
**comparing with conventional sheet laser or press**



Coil fed laser cutting machine SU3E	
Coil width max.	1500mm
Coil thickness	0.6mm – 2.0mm
Coil weight max.	10T
Laser source power	1,5-6 kW

SU3E coil laser cutting machine applies to standard metal coils. Upon decoiling materials are delivered to the cutting unit for feeding and cutting through the special machine tool structure and output via the transmission platform for manual sorting and unloading



### Coil fed laser cutting machine SU3Pro

Coil width max.	3000mm
Coil thickness	0.6mm – 20mm
Coil weight max.	up 30T
Laser source power	3-60 kW

Dynamic cutting - cutting while feeding without stopping  
 Excellent functionality, you can connect a manipulator, bending machine, welding machine and other equipment  
 Highly efficient parts ultra long nesting and saving of working time comparing with conventional sheet laser or press  
 Output via the transmission platform for automatic sorting and unloading and other operations.  
 Fully automated process minimizing operator requirement and allowing continuous and unattended production.

Multiple cutting heads (2-3-4)



Coil fed laser cutting machine SU4

Coil width max.	3000mm
Coil thickness	0.6mm – 20mm
Coil weight max.	up 30T
Laser source power	3-60 kW

Widely used, suitable for a variety of industries, thickness up to 20 mm  
 Highly efficient parts ultra long nesting and saving of working time comparing with conventional sheet laser or press  
 Output via the transmission platform for automatic sorting and unloading and other operations.  
 Fully automated process minimizing operator requirement and allowing continuous





#### Coil fed laser cutting machine SU5

Coil width max.	300-1850mm
Coil thickness	0.6mm – 3.0mm
Coil weight max.	up 30T
Laser source power	3-12 kW

**NO EDGE CUTTING** laser coil cutting - minimum waste  
 Special conveyour - completely avoiding scratches on the lower surface of the material  
 Dynamic cutting - cutting while feeding without stopping  
 Excellent functionality, you can connect a manipulator, bending machine, welding machine and other equipment  
 Special waste scrapping device  
 Highly efficient parts ultra long nesting and saving of working time comparing with conventional sheet laser or press

# SBMACHINES - LASER CUTTING MACHINES

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