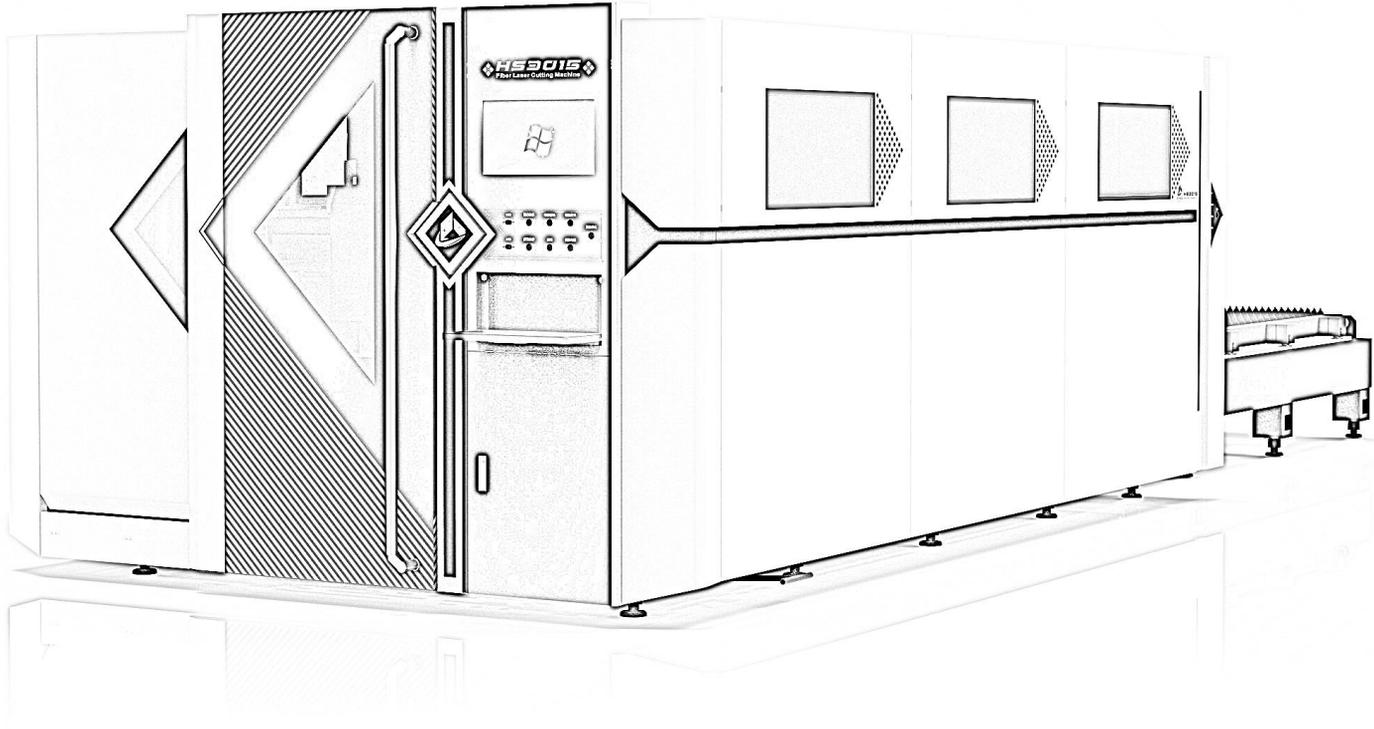




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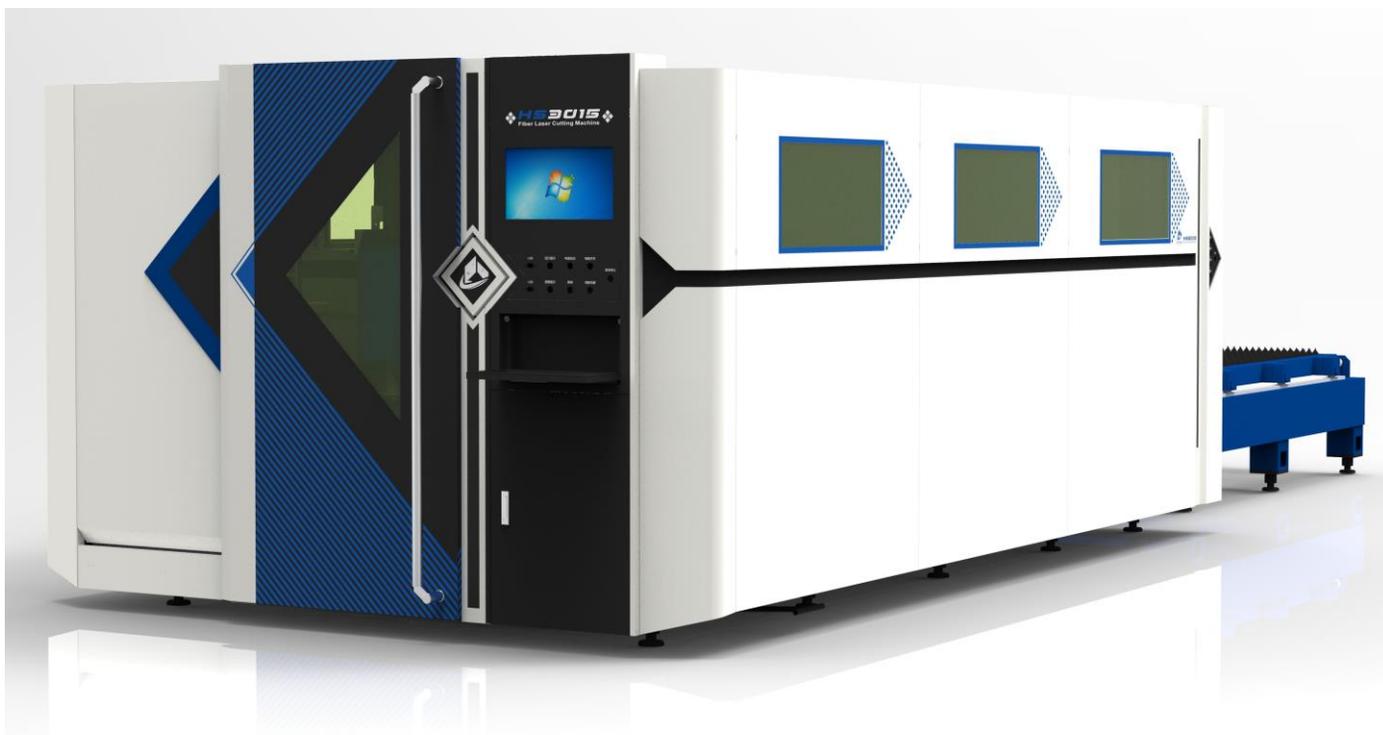
SwiftX 3015HS Fiber Laser Cutting Machine

6KW-20KW Laser

One-stop Supplier of Sheetmetal Machinery

Metal Mastery in Every Machine, Precision in Every Piece

Specifications:



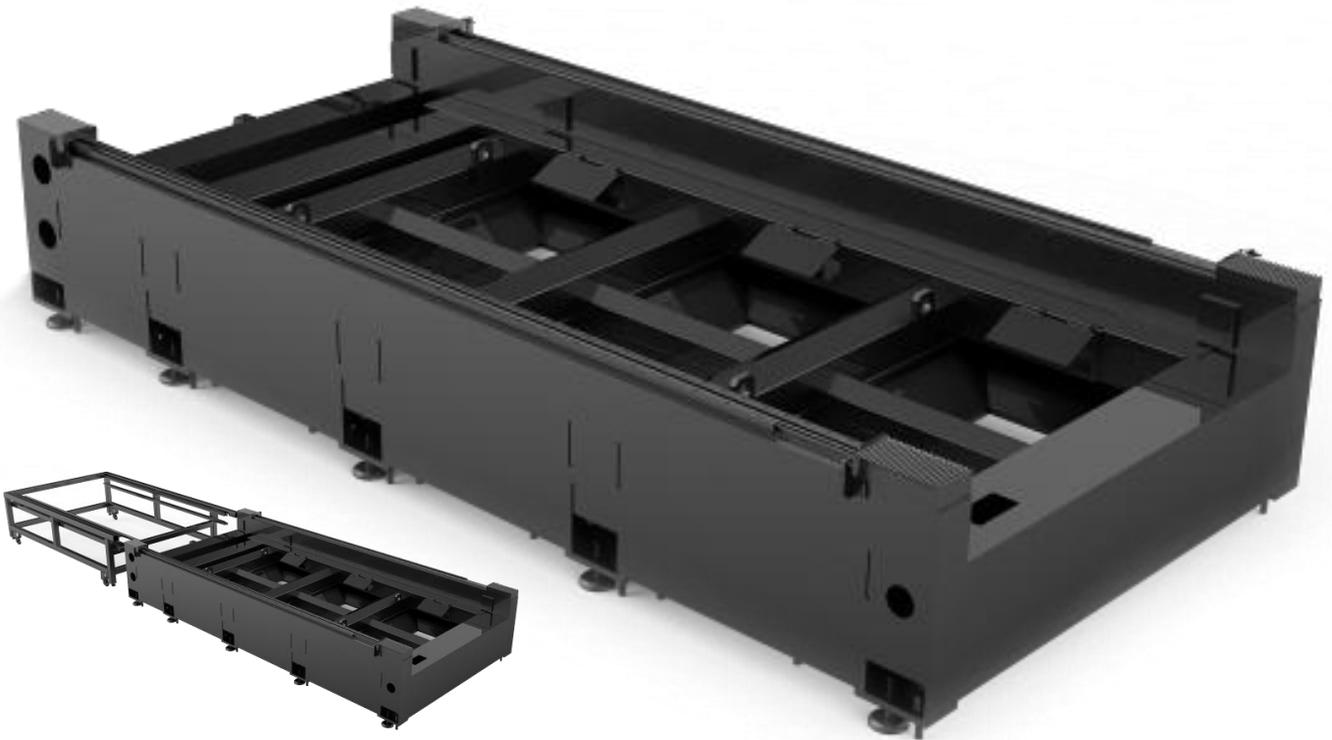
Model	SwiftX 3015HS/6000-12000
Cutting Table Size	1550*3050mm
X-axis Travel	3050mm
Y -axis Travel	1550mm
Z -axis Travel	350mm
Laser Power	6KW/12KW/20KW
Positioning Accuracy	±0.05mm
Repetitive Accuracy	±0.03mm
Rapid Speed	80m/min
Power	3 Phase 415V/50Hz (50-200A per phase)
Machine Weight	9500KG
Dimension	8500*3050*2180mm
Laser Source	Raycus/IPG fiber laser 6KW/12KW/20KW
Laser Head	Boci421/441/641
CNC Controller	FSCUT 4000E/FSCUT 8000E
Cabinet Electrical Components	SIEMENS/Schneider
Machine Frame	SwiftX 3015HS
Water Chiller	Specialized for 6KW/12KW/20KW laser

Features:

Plate Welding Frame

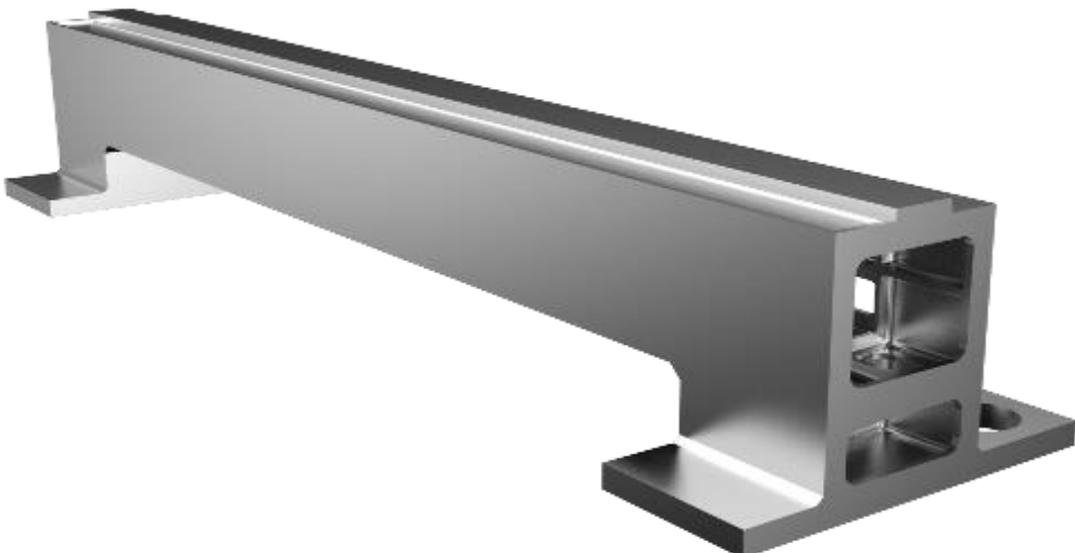
Whole machine is machined by high accuracy CNC gantry machine center, 600° C heat treatment has been done on the machine frame, which gives Alpha laser cutting machine a minimum 20 years life without mechanical distortion.

- **Stability and Rigidity:** Plate welding frames are known for their stability and rigidity. They provide a solid and flat surface, which can contribute to better stability during the cutting process.
- **Precision:** The flat surface of a plate welding frame allows for precise alignment and positioning of components. This is crucial for laser cutting machines, where accuracy is a key factor.



Cast Aluminium Beam

Light cast aluminium beam has been adopted to guarantee fast and high precision cutting



Features:

CypcutE CNC Controller

Friendless CypCutE 2D cutting software is for medium power EtherCAT cutting system. CypCutE is easy to use, rich in functions, stable and reliable. It has advanced functions such as Smooth MicroJoint, Speedy Piercing, integrated QR scanner and Circle Center Calibration to meet various processing needs.



Boci BLT Laser Head

Cost-effective smart cutter that focuses on 2D, 3D and bevel cutting machine, delivers a great performance with stable cutting, simple installation and setup, available for power levels below 30KW.



- Stable and efficient cutting
- Easy to maintain, low cost to repair
- Anti collision protection
- Protective screws keep cutting head from damage
- Groups of internal sensors for real time close-loop monitor
- Rapid diagnosis with early warning message

Components:



Yaskawa Servo Motor

Yaskawa has a strong reputation in the field of automation, and their servo motors are considered reliable solutions for demanding industrial environments. As technology continues to advance, Yaskawa consistently innovates to meet the evolving needs of the automation and motion control industries

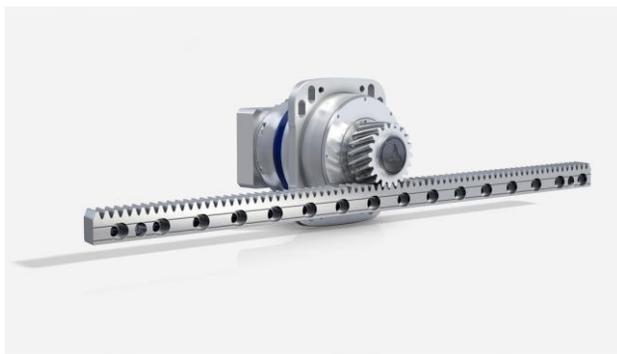


WITTENSTEIN

alpha

WITTENSTEIN ALPHA

ALPHA is a product line within WITTENSTEIN's portfolio, specifically known for its high-precision gear reducers and gearboxes. These gear drives are designed to provide precise motion control in various applications. ALPHA gear drives are often used in conjunction with servo motors and other motion control components to achieve accurate and reliable mechanical power transmission.



BOSCH
rexroth
A Bosch Company

Rexroth Linear Bearing and Rail

Bosch Rexroth is a well-known global supplier of advanced automation and control solutions, including linear motion systems. When it comes to linear bearings and rails, Bosch Rexroth offers a range of products designed for precise and reliable linear motion applications in various industries.



IPG Photonics and Raycus' laser sources excel in performance, reliability, and versatility, making them a top choice for industrial applications. Key advantages include high power efficiency, long lifespan, precise beam control, and adaptability to diverse materials.



Application & Capability

Materials:

Carbon steel - Stainless steel - Aluminum alloy – Brass – Copper - Galvanized Steel - Titanium

Thickness:

1-45mm carbon steel - 1-40mm stainless steel - 1-25mm aluminium - 1- 12mm brass



Industries:

Sheet metal manufacturing, Automobile, machinery manufacturing, elevator manufacturing, household appliances, kitchen and sanitary ware, signage, and other machinery manufacturing and processing industries.



Cutting Parameters 6KW laser

red font parameter is not suitable for production cutting

Material	Thickness (mm)	Cutting speed (m/min)	Cutting Gas
Stainless steel	1	50	N2
	2	30	N2
	3	15	N2
	4	10	N2
	6	5	N2
	8	3.8	N2
	10	2	N2
	12	1.4	N2
	14	1.0	N2
	16	0.55	N2
Carbon steel	1	45	N2/Air
	2	25	N2/Air
	3	14	N2/Air
	4	8	N2/Air
	6	5	N2/Air
	3	4	O2
	4	3.5	O2
	6	2.7	O2
	8	2.2	O2
	10	2.0	O2
	12	1.8	O2
	14	1.4	O2
	16	1.2	O2
	20	0.65	O2
		25	0.5
Brass	1	38	N2
	2	18	N2
	3	11	N2
	4	7.8	
	6	3.4	N2
Aluminum	1	43	N2
	2	22	N2
	3	13	N2
	4	8	N2
	5	5	N2
	6	3.5	N2
	8	1.7	N2
	10	1.1	N2
	12	0.6	N2



Cutting Parameters 12KW laser

red font parameter is not suitable for production cutting

Material	Thickness (mm)	Cutting speed (m/min)	Cutting Gas
Stainless steel	1	50-60	N2
	2	40-45	N2
	3	30-35	N2
	6	13	N2
	10	6.5	N2
	12	5	N2
	16	2	N2
	20	1.2	N2
	25	0.8	N2
	30	0.3	N2
40	0.15	N2	
Carbon steel	1	50-60	N2/Air
	2	40-45	N2/Air
	3	30-35	N2/Air
	6	10	N2/Air
	8	7	N2/Air
	10	5	1N2/Air
	10	4	O2 -
	12	3.3	O2 -
	14	3	O2 -
	16	2.8	O2 -
	20	2.1	O2 -
	25	1.1	O2 -
	30	0.9	O2 -
	40	0.3	O2
Brass	1	35-45	N2
	3	20	N2
	5	11	N2
	12	1.8	N2
	16	0.8	N2
Aluminum	1	50-60	N2
	2	30-35	N2
	3	20025	N2
	6	10	N2
	10	4.5	N2
	16	1.6	N2
	20	1	N2
	25	0.6	N2
	30	0.4	N2

Cutting Parameters 20KW laser

red font parameter is not suitable for production cutting

Material	Thickness (mm)	Cutting speed (m/min)	Cutting Gas
Stainless steel	1	50-60	N2
	2	40-45	N2
	3	30-35	N2
	6	20	N2
	10	10	N2
	12	8	N2
	16	5	N2
	20	3	N2
	25	1.5	N2
	30	1	N2
	40	0.6	N2
	50	0.25	N2
60	0.15	N2	
Carbon steel	5	23	N2/Air
	6	18	N2/Air
	8	14	N2/Air
	10	9	N2/Air
	16	5	N2/Air
	20	3	1N2/Air
	12	3.8	O2 -
	16	3.2	O2 -
	20	2.8	O2 -
	25	2.2	O2 -
	30	1.6	O2 -
	40	1.0	O2 -
	45	0.8	O2 -
	50	0.3	O2 -
Brass	1	40-45	N2
	3	28	N2
	5	17	N2
	12	2.6	N2
	16	0.8	N2
Aluminum	1	50-60	N2
	2	40-45	N2
	3	30-35	N2
	6	16	N2
	10	8	N2
	16	3	N2
	20	2.6	N2
	25	1	N2
	30	0.6	N2

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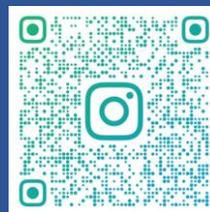
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