



LASER TECH
SYSTEMS AND SOLUTIONS

SERVICE BEFORE SALES

QuickCut Series

Sheet Metal Laser Cutting Machine

COMPANY PROFILE:

Laser Tech Systems and Solutions was founded by Mr. Rajiv Kumar with a group of Technocrats in 2021, with the idea of creating a large umbrella organization to assist and serve the growing Indian Laser Industry and to help the market with its years of experience in the field of Lasers and its applications.

We represent many global manufactures, covering a wide range of solutions Laser Marking, Laser Welding, 2D Laser Cutting, 3D Laser Cutting, Laser Cladding, Laser Hardening. Our Laser Solutions can process a wide range of materials like Metal, Paper, Acrylic, Wood, Textile, Leather, Plastic and many more.

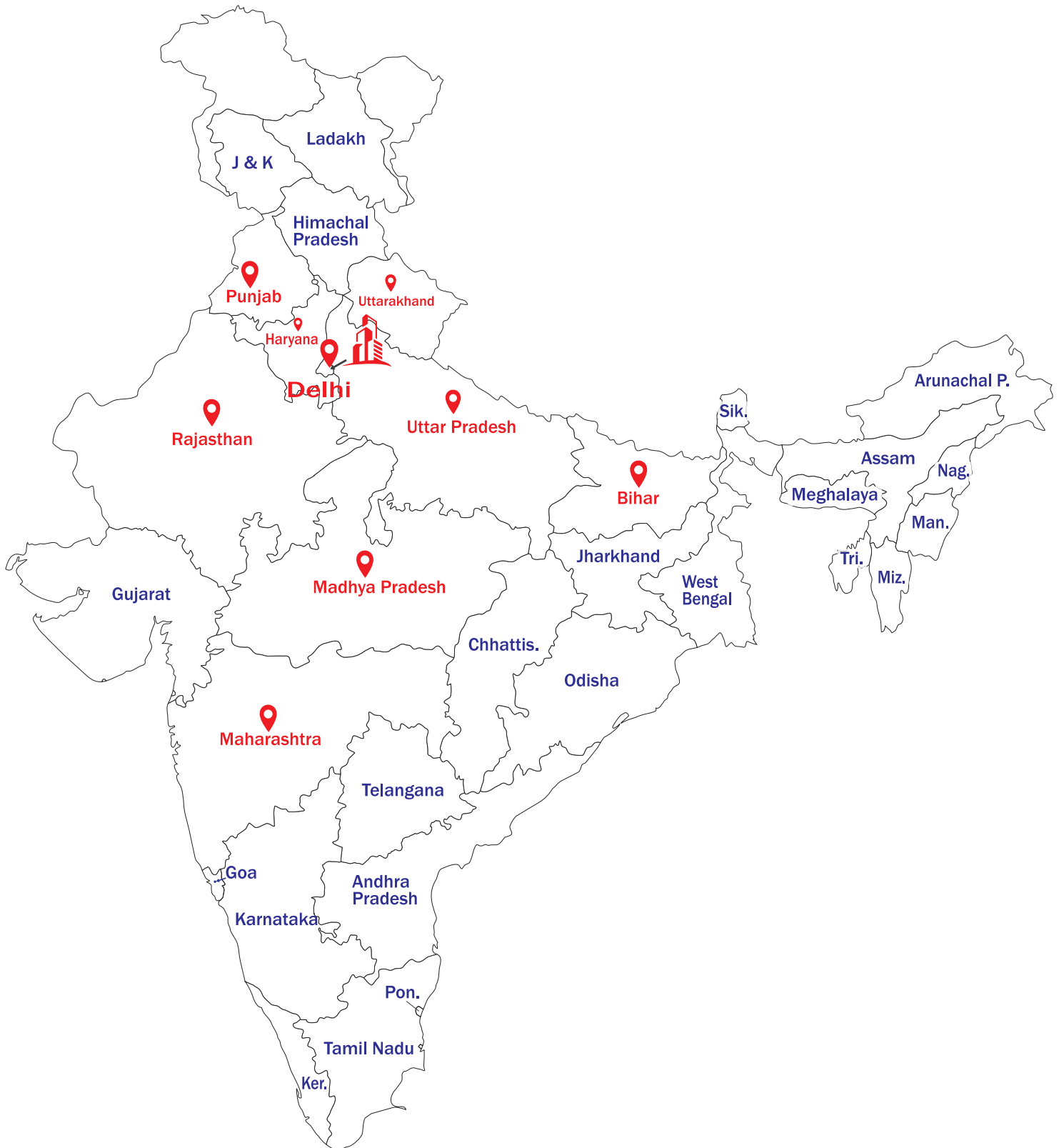
Our main aim is to serve our customers with cost effective and innovative solutions with our utmost know how of Applications and help them to fulfill their objectives.

Our aim is to provide the best solutions to all our customers with best systems and economical prices. We believe in **SERVICE BEFORE SALES**...We provide industrial solutions for Laser for Metals, non-metal laser cutting/engraving machines, Galvo based solutions, Laser Marking, Laser welding, 2D laser cutting, 3D laser cutting, Laser cladding etc.

LTSS Service and Support:

Laser Tech Systems and Solutions supports installation, commissioning, and training for its customers. Dedicated Laser Systems available for in-house demonstration, applications and software training. Specialized engineers are available to provide online and telephonic support.

*We proudly say that because of our team's dedicated efforts and our motto "**SERVICE BEFORE SALES**" we have a chain of happy customers related to various industries using our Laser machines in India.*



Fiber Laser Cutting Machine

1500/2000/3000W



Images are not actual images and are strictly for representational purposes onl. It can vary as per company design policy.

Description

A sheet laser cutting machine is a highly versatile and efficient tool used in manufacturing industries to precisely cut flat sheet materials, including metals, plastics, and composites. Utilizing advanced laser technology, these machines deliver a concentrated beam of light to melt, burn, or vaporize the material along predefined paths, allowing for the creation of intricate shapes, patterns, and contours with exceptional accuracy. One of the key advantages of sheet laser cutting machines is their ability to streamline production processes by minimizing setup time and reducing material waste. They offer unmatched precision, enabling tight tolerances and high-quality finished products without the need for secondary operations. Additionally, sheet laser cutting machines promote flexibility in design, allowing for quick adaptation to changing customer requirements and market demands. Their high-speed cutting process enhances productivity and throughput, while integration with automated systems further optimizes manufacturing workflows. With these advantages, sheet laser cutting machines empower manufacturers to achieve cost-effective production, superior quality, and increased competitiveness in the industry.

Benefits & Features

Precision

Laser sheet cutting machines offer exceptional accuracy and precision, allowing for the creation of intricate shapes, angles, and contours with tight tolerances. This precision ensures high-quality finished products and minimizes the need for secondary operations.

Versatility

These machines are highly versatile and can cut a wide range of sheet materials, including metals, plastics, and composites, with varying thicknesses. This versatility makes them suitable for diverse applications across industries.

Efficiency

Laser sheet cutting machines operate at high speeds, enabling rapid production and increased throughput. Their efficient cutting process minimizes production time and reduces manufacturing costs.

Clean Cuts

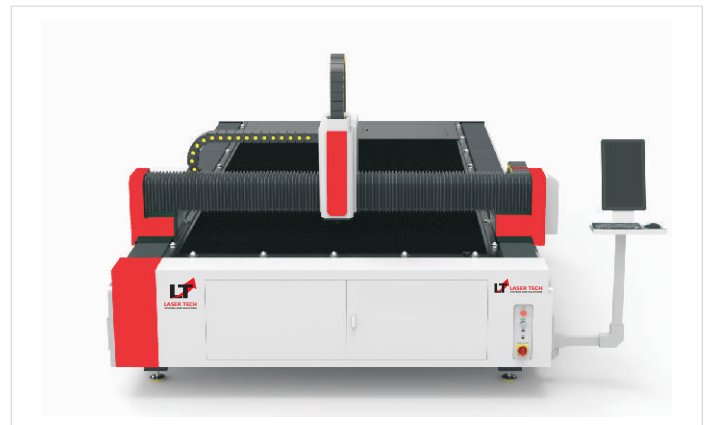
Laser cutting produces clean, smooth cuts without burrs or sharp edges, eliminating the need for additional finishing processes. This results in higher-quality finished parts and reduces the risk of injuries during handling.

Flexibility in Design

Laser sheet cutting machines offer flexibility in design, allowing for the creation of custom shapes, hole patterns, and intricate details with ease. This flexibility enables manufacturers to meet diverse customer requirements and adapt quickly to changing market demands.

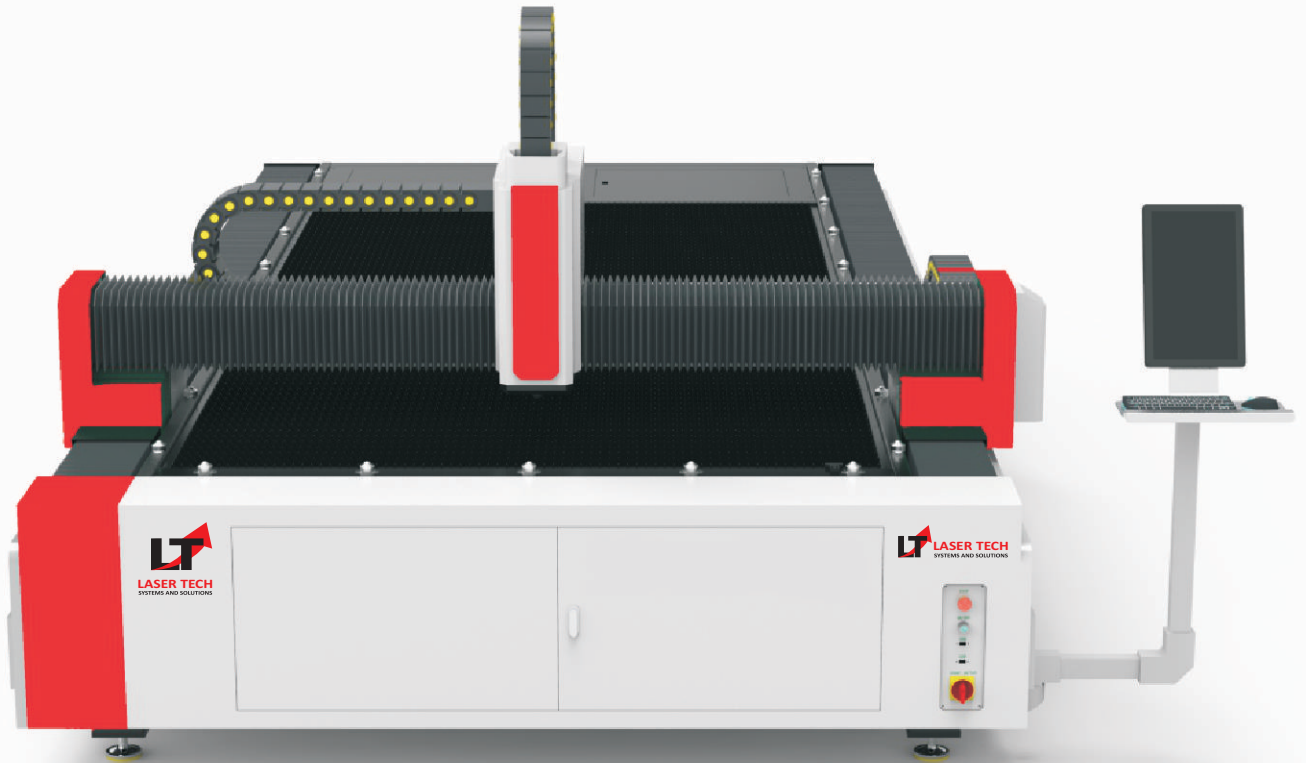
Laser cutting machines can perform a wide range of applications across various industries. Whether you're in automotive manufacturing, aerospace, electronics, or even fashion and jewelry design, a laser cutting machine can cater to your specific needs.

In addition to cutting, laser machines can also perform other operations like engraving, marking, and etching. This flexibility allows for customization and personalization options that can add value to your products. Laser engraving, for example, allows you to create intricate designs or logos on different materials, making your products stand out in the market.



Fiber Laser Cutting Machine (Open Body)

1500/2000/3000W

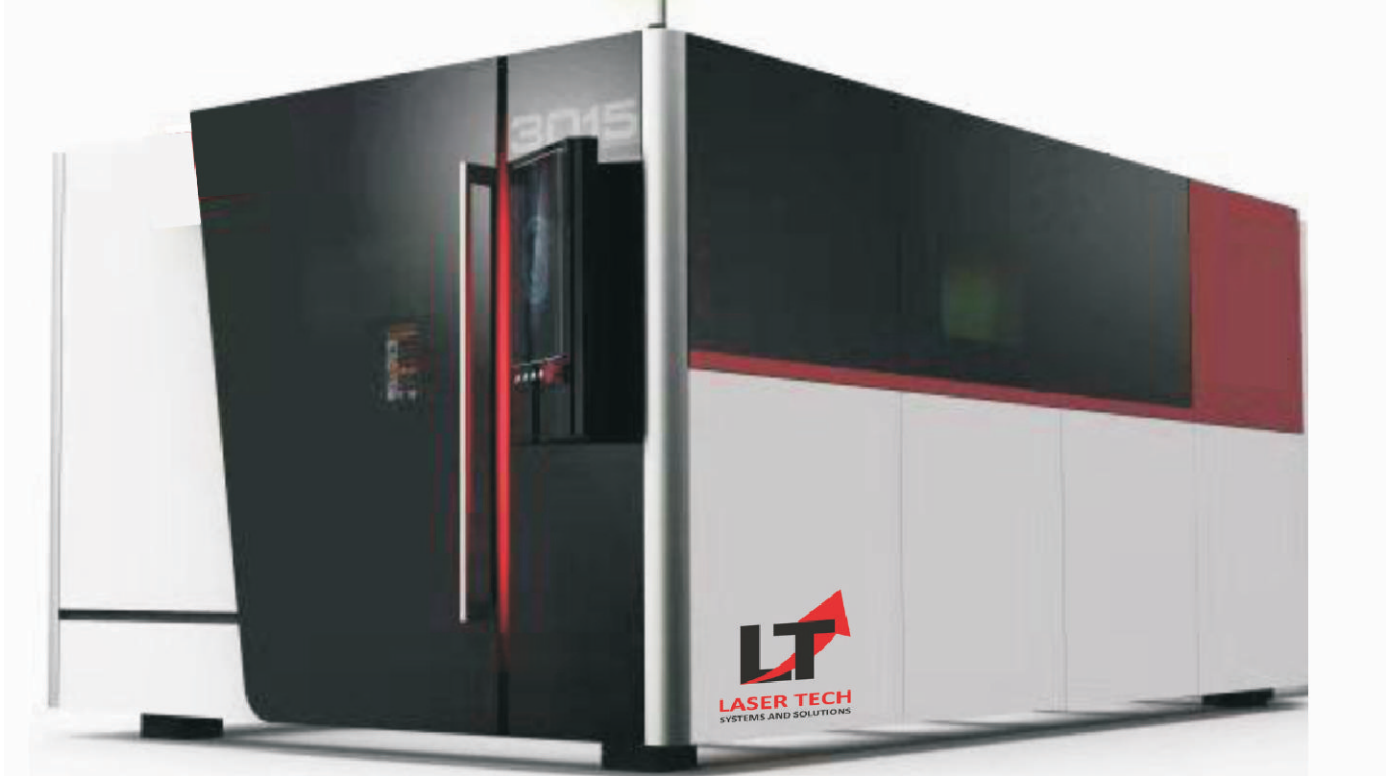


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Laser Power/Type	1KW Fiber Laser MAX IPG RAYCUS	1.5KW Fiber Laser MAX IPG RAYCUS	2 KW Fiber Laser MAX IPG RAYCUS	3 KW Fiber Laser MAX IPG RAYCUS
Bed Size	3 X 1.5m to 12 X 2.5m	3 X 1.5m to 12 X 2.5m	3 X 1.5m to 12 X 2.5m	3 X 1.5m to 12 X 2.5m
Cutting Thickness (MS)	12mm	14mm	16mm	20mm
Positioning accuracy	±0.03mm/1000mm	±0.03mm/1000mm	±0.03mm/1000mm	±0.03mm/1000mm
Re-positioning accuracy	0.03mm	0.03mm	0.03mm	0.03mm
Traverse Speed	120m/min	120m/min	120m/min	120m/min
Maximum acceleration	1.2G	1.2G	1.2G	1.2G
Table maximum load	500kg	650kg	750kg	900kg
Total machine weight	3500kg	3500kg	4000kg	5500kg
Dimensions (L×W×H)	4.85 X 2.73 X 1.2mtr	4.85 X 2.73 X 1.2mtr	4.85 X 2.73 X 1.2mtr	4.85 X 2.73 X 1.2mtr

Fiber Laser Cutting Machine (Closed Body)

2000/4000/6000/12000W



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Laser Power/Type	2KW Fiber Laser IPG MAX RAYCUS	3KW Fiber Laser IPG MAX RAYCUS	6KW Fiber Laser IPG MAX RAYCUS	12KW Fiber Laser IPG MAX RAYCUS
Bed Size	3 X 1.5m to 12 X 2.5m	3 X 1.5m to 12 X 2.5m	3 X 1.5m to 12 X 2.5m	3 X 1.5m to 12 X 2.5m
Positioning accuracy	±0.03mm/1000mm	±0.03mm/1000mm	±0.03mm/1000mm	±0.03mm/1000mm
Cutting Thickness (MS)	16mm	20mm	25mm	30mm
Traverse Speed	140m/min	140m/min	140m/min	140m/min
Maximum acceleration	1.5G	1.5G	1.5G	1.5G
Table maximum load	750kg	900kg	1300kg	1800kg
Total machine weight	9000kg	10000kg	11000kg	125000kg
Dimensions (L×W×H)	8.5 X 3 X 2.5mtr (For 3015 With Pallet Changer)	8.5 X 3 X 2.5mtr (For 3015 With Pallet Changer)	8.5 X 3 X 2.5mtr (For 3015 With Pallet Changer)	11.5 X 3.5 X 2.5m (For 4020 With Pallet Changer)

Fiber Laser Tube & Sheet Cutting Machine

1500/2000/3000/6000W



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Description

A laser sheet and tube cutting machine is a versatile tool used in manufacturing industries to precisely cut both flat sheet materials and cylindrical tubes or profiles made from metals such as steel, aluminum, and stainless steel. This advanced machine combines the capabilities of a laser cutting system for flat sheet materials with those of a laser tube cutting system, offering dual functionality in a single setup. It utilizes laser technology to deliver a concentrated beam of light that melts, burns, or vaporizes the material along predefined paths, enabling the creation of intricate shapes, angles, and contours with exceptional precision. Laser sheet and tube cutting machines are known for their high efficiency, versatility, and ability to handle a wide range of materials and geometries. They are widely used in industries such as automotive, aerospace, furniture, and construction for fabricating components such as frames, chassis, exhaust systems, structural elements, and more. With their capability to streamline production processes, minimize material waste, and deliver high-quality finished products, laser sheet and tube cutting machines are indispensable tools for modern manufacturing operations.

Benefits & Features

Dual Functionality

Laser sheet and tube cutting machines offer the ability to cut both flat sheet materials and cylindrical tubes or profiles in a single setup. This dual functionality eliminates the need for separate machines, streamlines production workflows, and reduces equipment costs.

Versatility

These machines are highly versatile and can handle a wide range of materials, including metals like steel, aluminum, and stainless steel, as well as non-metallic materials like plastics and composites. They can cut various thicknesses and geometries, making them suitable for diverse applications across industries.

Precision

Laser sheet and tube cutting machines offer exceptional accuracy and precision, allowing for the creation of intricate shapes, angles, and contours with tight tolerances. This precision ensures high-quality finished products and minimizes the need for secondary operations.

Efficiency

With their high-speed cutting process and efficient material utilization, laser sheet and tube cutting machines optimize production time and reduce manufacturing costs. They minimize material waste, maximize material utilization, and enable rapid production of complex parts with minimal setup time.

Clean and Burr-Free Cuts

Laser tube cutting produces clean, smooth cuts without burrs or sharp edges, eliminating the need for additional finishing processes. This results in higher-quality finished parts and reduces the risk of injuries during handling.

Flexibility in Design

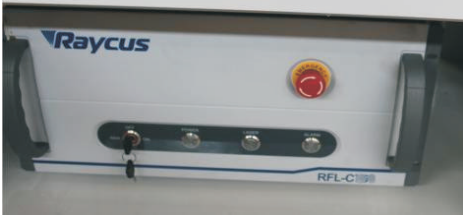
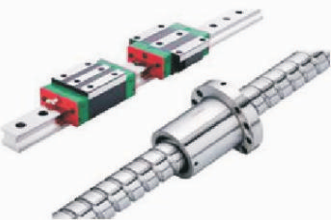
These machines offer flexibility in design, allowing for the creation of custom shapes, hole patterns, and intricate details with ease. They enable manufacturers to adapt quickly to changing customer requirements and market demands, enhancing their competitiveness in the industry.

Integration and Automation

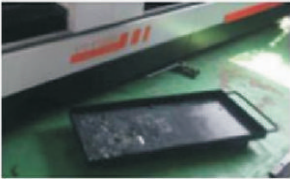
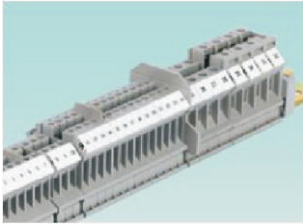
Many laser sheet and tube cutting machines can be integrated into automated production lines or CNC systems, enhancing efficiency and workflow coordination. This integration enables seamless batch production, mass customization, and real-time monitoring for optimized manufacturing operations.

Model	SL-EH 3015T	SL-FH3015T
Capacity	3050*1530mm	3050*1530mm
Repeat Repositioning Accuracy	±0.02mm	±0.03mm
Accuracy Of Positioning	±0.03mm	±0.02mm
Maximum Speed	140m/min	120m/min
Laser Power	1000w~6000w	1000w~6000w
Maximum Acceleration	1.5G	1.5G

Configuration of the Machine

Parts Name	Picture	Brand	Function
Laser source		RAYCUS	1:Direct control of all the fiber laser functions; 2:Synchronized control of the laser source; 3:Overall power control; 4:High speed perforation; 5:Edge machining function; 6:Cutting data library; 7:High speed
Cutting Head		Prete	1:Manual focal position adjustment; 2:No-contact height sensor; 3:Horizontal lens adjustment; 4:Germany brand
Control System		Cypcut	1:Recognized by over 300 domestic and foreign laser companies; 2:Approved by over 100000 clients; 3:Stable operation on over 20000 sets cutting machine; 4:Able to complete from the design, map and process; 5:Simple, efficient, powerful and reliable
Cooling System		Tongfei	1:Exclusive for Laser machines; 2:Multiple protection functions, passive alarm terminals and remote control terminals, easy to achieve centralized CNC control and monitoring; 3:System components are used internationally renowned brands to ensure that the equipment has excellent quality and good reliability
Square Guide Rail		KH from Taiwan	1:Precise design, easy to install; 2:High rigidity and overweight load capacity; 3:Low noise, smooth movement

Configuration of the Machine

Parts Name	Picture	Brand	Function
Rack and Pinion system		ABBA from Taiwan	
Driving System		YASKAWA from Japan	1: Servo Motor with high precise; 2: Able to control cutting speed and position; 3: Stable running, lower speed without vibration phenomenon; 4: Better overload capacity
Reducer		Shimpo from Japan	1: Helical gear replacing previous spur gear, lower noise; 2: Back to the gap below 0.05 arc points; 3: Low pulsating rotation smooth;
Collector			Collecting cutting products, at bottom of laser machine bed. Collectors with universal wheels
Oil Injection System		Zhejiang	After using some time, Rack & Pinion and guide rails always need maintained by inject oils. Make sure the machine keep moving fluently and in good precision
Terminal block		Germany Weidmuller	
Wire and cable		Shanghai Echu	High soft towline exclusive
Organ cover		Cangzhou	
Towline			

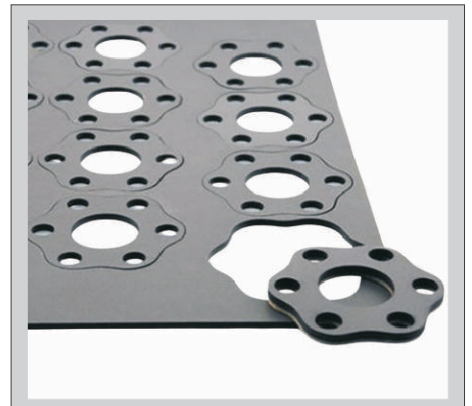
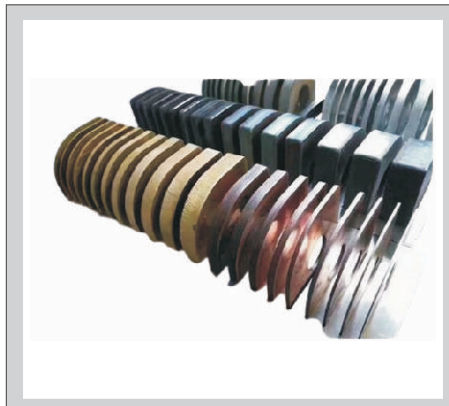
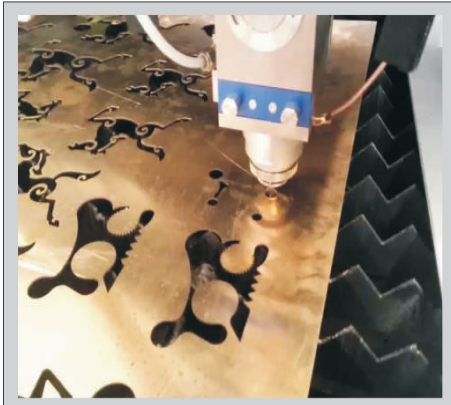
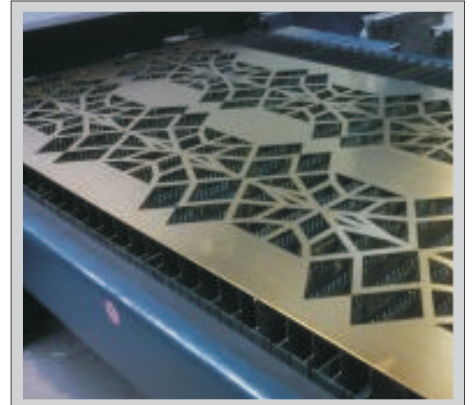
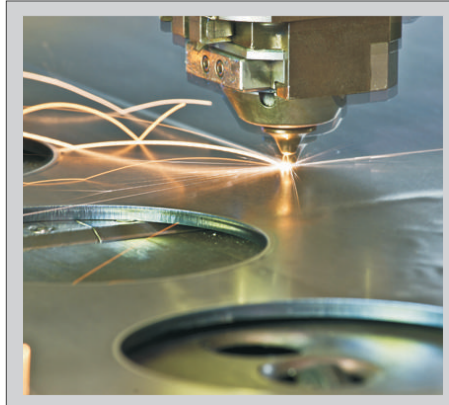
Specification

Model	QuickCut
Laser Power	1500 / 2000 / 3000W
Laser Type	Fiber
Wavelength	1070nm
Beam quality	0.373mrad
Effective Cutting range	1500*3000mm
Workbench axial positioning accuracy	$\leq \pm 0.02\text{mm/m}$
Cutting Speed	$\leq 30\text{m/min}$ (Depends on material)
Workbench maximum load	800KG
Rated parameters of power supply	3 Phase AC 380V 50Hz
Equipment electric power	10-20KW
Total power protection class	Ip54
Electric oil pot	Time quantitative automatic filling
Acceleration speed	1G (1800W)
empty line speed	100m/min
Single positioned accuracy	<0.03mm

Cutting Head

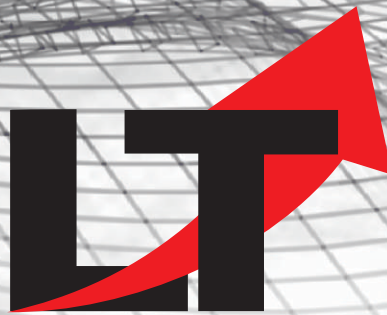


Fiber Laser Cutting Samples



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Office Address: B-3/280, Ground Floor, Sector-6, Rohini-110085,
New Delhi, India

 +91 8851534795

 +91 9013586621

www.lasertechsystems.co.in

 info@lasertechsystems.co.in

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