

TIGERTEC

Sino-US joint venture

**Your
one-stop
solution**

Manufacturer of fiber laser cutting machine



TIGERTEC

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We Are TigerTec

TigerTec was founded in 2003 in the United States. TigerTec Inc.(China) is a Sino-US joint venture and professional manufacturer of CNC machines founded in 2010. We focus on high-quality CNC machines and aim at middle and high-end markets.

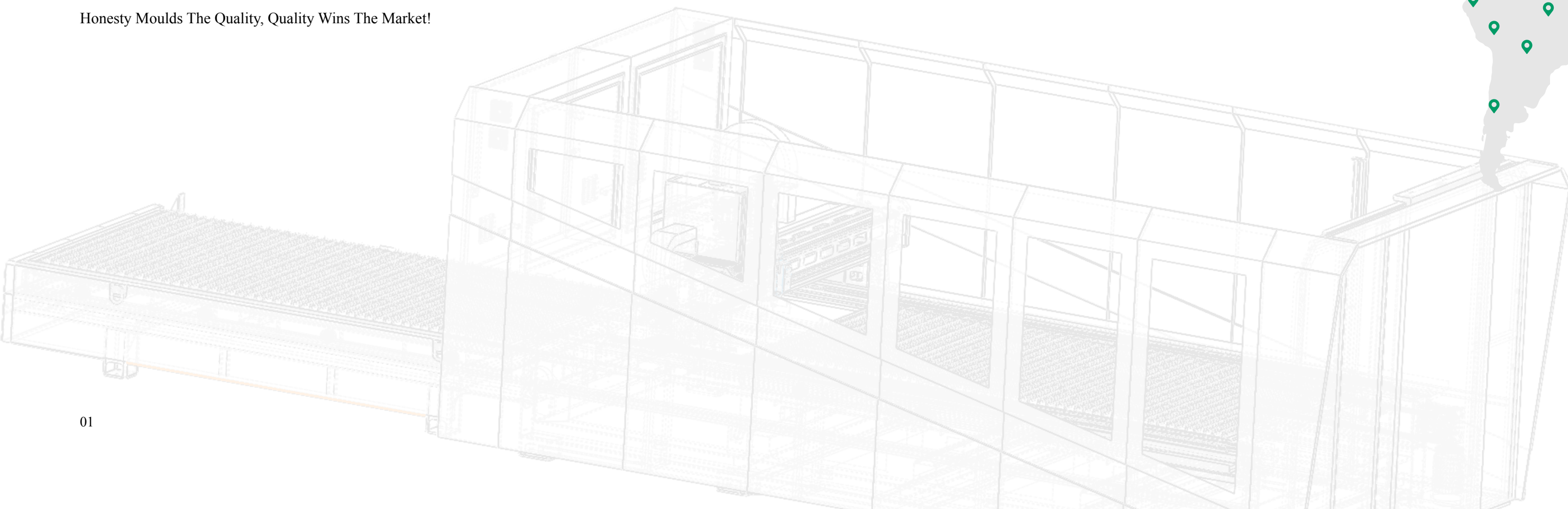
Our products range from metalworking CNC machines, woodworking CNC routers, sign-making CNC routers, pattern-making CNC machines to stone-working CNC machines, etc. We do customized machines for OEM customers and have already worked with some top brands from United States, Italy, Korea, Germany, Russia, Canada, Argentina and Taiwan.

We have welding workshop, painting house (sand polishing and powder coating), metal working indoor. We manufacture all the machinery parts by VMC and 5-side machining center in-house to control the quality and delivery time.

We forged a closed partnership with HSD spindle, Yaskawa servo driving system, Siemens driving system, Igus cabling, Syntec controller, Becker pump, Delta inverter, Raycus/Maxphotonics/IPG laser source, Raytools cutting head and Cypcut controller.

TigerTec has a full understanding of quality, service and customer value. We supply global installation, training and service for our customers.

Honesty Moulds The Quality, Quality Wins The Market!



Where We Are



- +Make machinery parts in-house
- +Use Hamar Laser, VMC, and 5-side machining center to conduct strict quality control
- +Aim at the middle and high-end market for more than 20 years
- +2 Direct subsidiaries (USA and China)
- +Strong and wide service team

H Series Fiber Laser Cutting Machine

TigerTec fiber laser series is robust and reliable which will create smooth cutting edges and no need to require post-processing. The parts are free of burrs even with thick stainless steel. A simple operating concept can be easily operated by new operators and is well equipped with intelligent features to deliver worry-free, walk-away performance and high productivity.

Outstanding Features

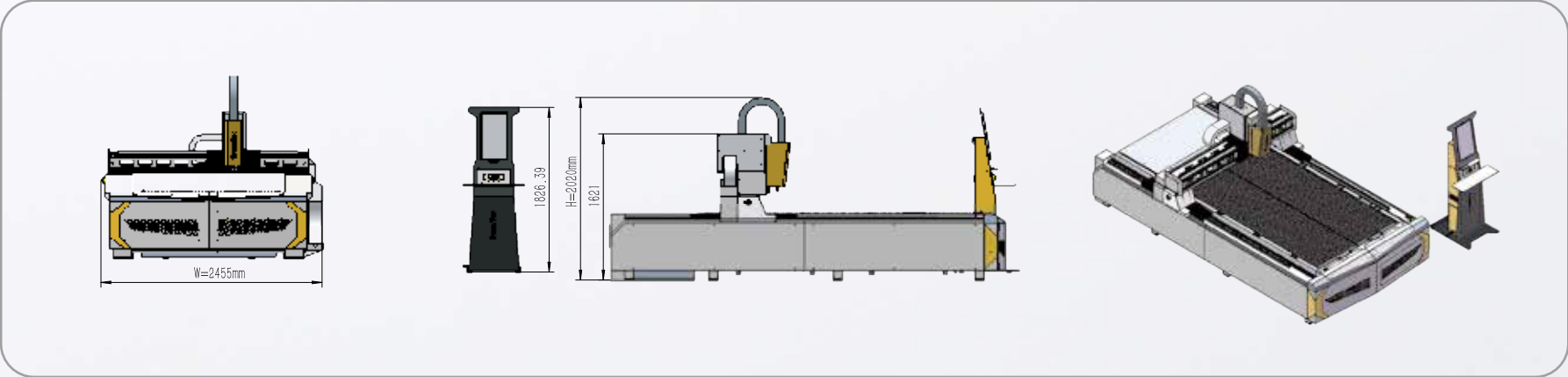
- Power: 4kw-20kw. It offers the versatility to cut a wide range of materials, including stainless steel, aluminum alloy, titanium alloy and carbon steel
- Heavy-duty steel tube welded bed, the bed has good comprehensive performance, high compressive strength and hardness, and is not easy to be deformed by heat, ensuring exceptional durability and stability
- We collaborate with renowned suppliers such as IPG, Raytools, Friendess, Siemens, Schneider, Hiwin, and Yaskawa to ensure top-notch quality and reliability
- Powered by the Cypcut intelligent operating system and equipped with the Raytools fiber-specific laser head and high-performance laser source, our machine ensures excellent cutting capabilities

Applications

Capable of cutting carbon steel, brass, aluminum and stainless steel without fear of back reflections damaging the machine. By using these fiber laser machines, will reduce your maintenance requirements and cut your operating costs considerably.

Technical Parameters

Model No.	Working area		Accuracy	Max acceleration	Weight	Foot Print (W*L*H)		
TRF510H	1550mm	3100mm	± 0.03mm/m	2G	3150KGS	2470mm	3634mm	1960mm
	61.0"	122.0"				97.2"	143.1"	77.2"
TRF512H	1550mm	4000mm	± 0.03mm/m	2G	3400KGS	2470mm	4534mm	1960mm
	61.0"	157.5"				97.2"	178.5"	77.2"
TRF712H	2050mm	4000mm	± 0.03mm/m	2G	4000KGS	2970mm	4534mm	1960mm
	80.7"	157.5"				117"	178.5"	77.2"
TRF720H	2050mm	6000mm	± 0.03mm/m	2G	5200KGS	2970mm	6534mm	1960mm
	80.7"	236.2"				117"	257.2"	77.2"



M Series Fiber Laser Cutting Machine

TigerTec fiber laser series is robust and reliable which will create smooth cutting edges and no need to require post-processing. The parts are free of burrs even with thick stainless steel. A simple operating concept can be easily operated by new operators and is well equipped with intelligent features to deliver worry-free, walk-away performance and high productivity.

Outstanding Features

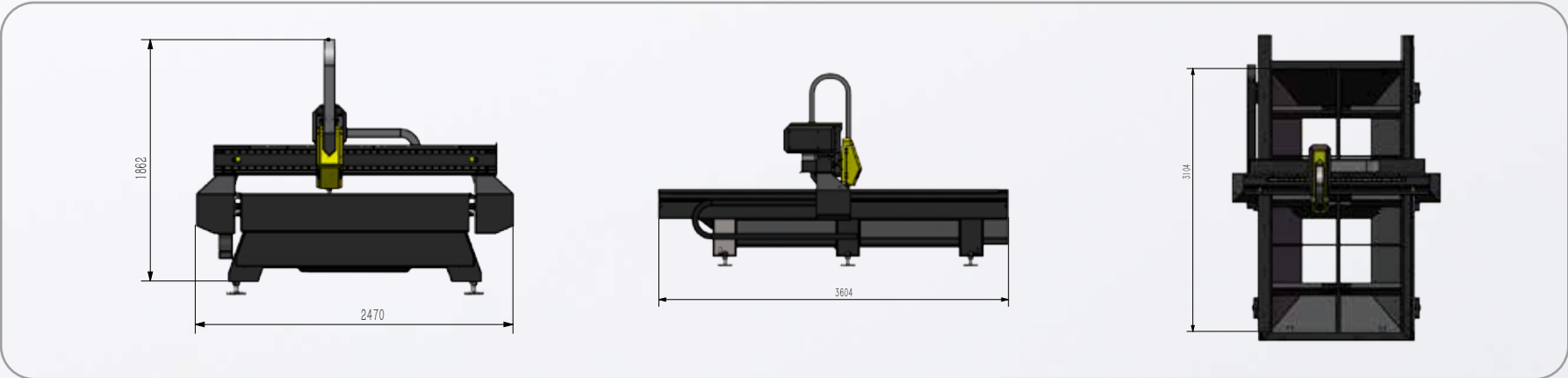
- Power: 1kw-3kw. It offers the versatility to cut a wide range of materials, including stainless steel, aluminum alloy, titanium alloy and carbon steel
- Light duty steel tube welded bed, the bed has good comprehensive performance, high compressive strength and hardness and is not easy to be deformed by heat, ensuring exceptional durability and stability
- We collaborate with renowned suppliers such as IPG, Raytools, Friendess, Siemens, Schneider, Hiwin and Yaskawa to ensure top-notch quality and reliability
- Powered by the Cypcut intelligent operating system and equipped with the Raytools fiber-specific laser head and high-performance laser source, our machine ensures excellent cutting capabilities

Applications

Capable of cutting carbon steel, brass, aluminum and stainless steel without fear of back reflections damaging the machine. By using these fiber laser machines, you will reduce your maintenance requirements and cut your operating costs considerably.

Technical Parameters

Model No.	Working area		Accuracy	Max acceleration	Weight	Foot Print (W*L*H)		
TRF510	1550mm	3100mm	± 0.03mm/m	1.8G	1600KGS	3860mm	2470mm	1960mm
	61.0"	122.0"				152.0"	97.2"	77.2"
TRF512	1550mm	4000mm	± 0.03mm/m	1.8G	2000KGS	3860mm	3370mm	1960mm
	61.0"	157.5"				152.0"	132.7"	77.2"
TRF712	2050mm	4000mm	± 0.03mm/m	1.8G	2500KGS	4360mm	3370mm	1960mm
	80.7"	157.5"				171.7"	132.7"	77.2"
TRF720	2050mm	6000mm	± 0.03mm/m	1.8G	4000KGS	4360mm	5370mm	1960mm
	80.7"	236.2"				171.7"	211.4"	77.2"



Dual-use Sheet and Tube Fiber Laser Cutting Machine H Series

Our Sheet and Tube Fiber Laser Cutting Machine saves your time, space and money with its double-use function. It can process both metal sheets and various metal tubes, making it more efficient option for conventional metal sheet and tube processing. TigerTec is your go-to for perfect solutions when it comes to laser tube cutting.

The machine uses double pneumatic chucks to maintain stable and secure clamping, ensuring cutting accuracy. It also features a dedicated support roller to prevent tube sagging and deformation, which improves cutting accuracy and prolongs the machine's service life. With higher photoelectric conversion efficiency and a more stable beam quality, this machine's anti-high-reflection ability achieves better cutting results.

Outstanding Features

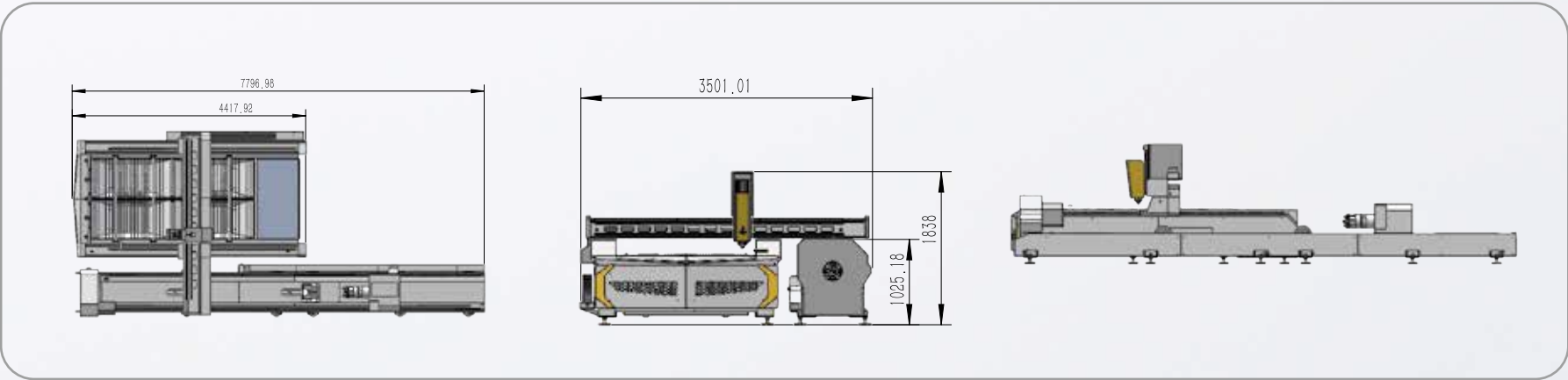
- A new heavy-duty welded steel bed ensures the stability of machine operation
- Raytools automatic laser head with active obstacle avoidance capabilities
- Cypcut professional intelligent control system with an automatic nesting function. This system has stable performance and fast operation, supporting various common file formats
- Pneumatic chucks and segmented automatic support to prevent deformation while cutting long tubes

Applications

Sheet and tube laser cutter is widely used in various machinery manufacturing and processing industries such as construction machinery, shipbuilding industry, gantry cranes, environmental protection equipment, refrigeration equipment, aviation equipment, automobile manufacturing, agricultural machinery, etc.

Technical Parameters

Model No.	Working area		Accuracy	Max acceleration	Weight	Foot Print (W*L*H)		
TRF510H -D220L6000	1550mm	3100mm	± 0.03mm/m	2G	5000KGS	2455mm	4800mm	1826mm
	61.0"	122.0"				96.6"	188.9"	71.8"
TRF512H -D220L6000	1550mm	4000mm	± 0.03mm/m	2G	5400KGS	2455mm	5700mm	1826mm
	61.0"	157.5"				96.6"	224.4"	71.8"
TRF712H -D220L6000	2050mm	4000mm	± 0.03mm/m	2G	6000KGS	2955mm	5700mm	1826mm
	80.7"	157.5"				116.3"	224.4"	71.8"
TRF720H -D220L6000	2050mm	6000mm	± 0.03mm/m	2G	6500KGS	2955mm	7700mm	1826mm
	80.7"	236.2"				116.3"	303.1"	71.8"



Dual-use Sheet and Tube Fiber Laser Cutting Machine M Series

Our Sheet and Tube Fiber Laser Cutting Machine saves your time, space and money with its double-use function. It can process both metal sheets and various metal tubes, making it a more efficient option for conventional metal sheet and tube processing. TigerTec is your go-to for perfect solutions when it comes to laser tube cutting.

The machine uses double pneumatic chucks to maintain stable and secure clamping, ensuring cutting accuracy. It also features a dedicated support roller to prevent tube sagging and deformation, which improves cutting accuracy and prolongs the machine's service life. With higher photoelectric conversion efficiency and a more stable beam quality, this machine's anti-high-reflection ability achieves better cutting results.

Outstanding Features

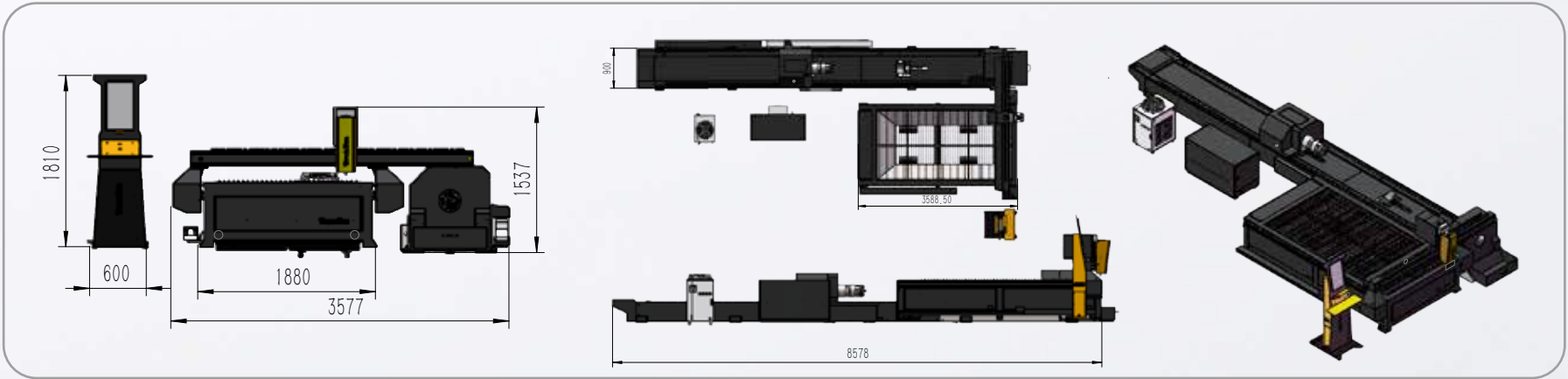
- A new heavy-duty welded steel bed ensures the stability of machine operation
- Raytools automatic laser head with active obstacle avoidance capabilities
- Cypcut professional intelligent control system with an automatic nesting function. This system has stable performance and fast operation, supporting various common file formats
- Pneumatic chucks and segmented automatic support to prevent deformation while cutting long tubes

Applications

Sheet and tube laser cutter is widely used in various machinery manufacturing and processing industries such as construction machinery, shipbuilding industry, gantry cranes, environmental protection equipment, refrigeration equipment, aviation equipment, automobile manufacturing, agricultural machinery, etc.

Technical Parameters

Model No.	Working area		Accuracy	Max acceleration	Weight	Foot Print (W*L*H)		
TRF510 -D220L6000	1550mm	3100mm	± 0.03mm/m	1.8G	3800KGS	3577mm	8578mm	1537mm
	61.0"	122.0"				140.8"	337.7"	60.5"
TRF512 -D220L6000	1550mm	4000mm	± 0.03mm/m	1.8G	4000KGS	3577mm	9478mm	1537mm
	61.0"	157.5"				140.8"	373.1"	60.5"
TRF712 -D220L6000	2050mm	4000mm	± 0.03mm/m	1.8G	4500KGS	4077mm	9478mm	1537mm
	80.7"	157.5"				160.5"	373.1"	60.5"
TRF720 -D220L6000	2050mm	6000mm	± 0.03mm/m	1.8G	5500KGS	4077mm	11478mm	1537mm
	80.7"	236.2"				160.5"	451.8"	60.5"



Tube Fiber Laser Cutting Machine

TigerTec tube fiber laser cutting machine is a complete system that integrates a material handling system specifically designed to handle tubing with a fiber laser. Tubes and profiles are used everywhere from mechanical engineering and system construction to the furniture industry.

Outstanding Features

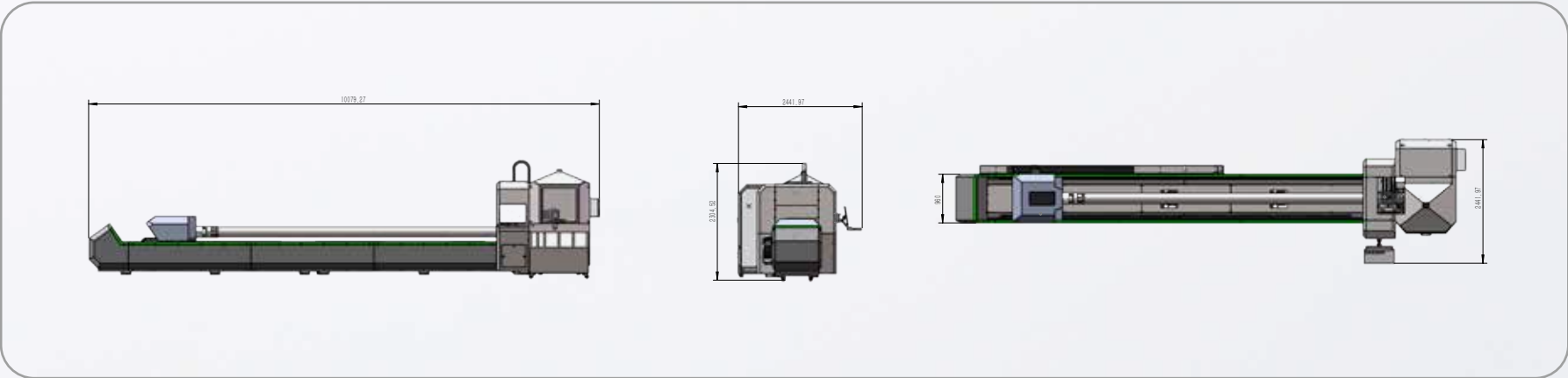
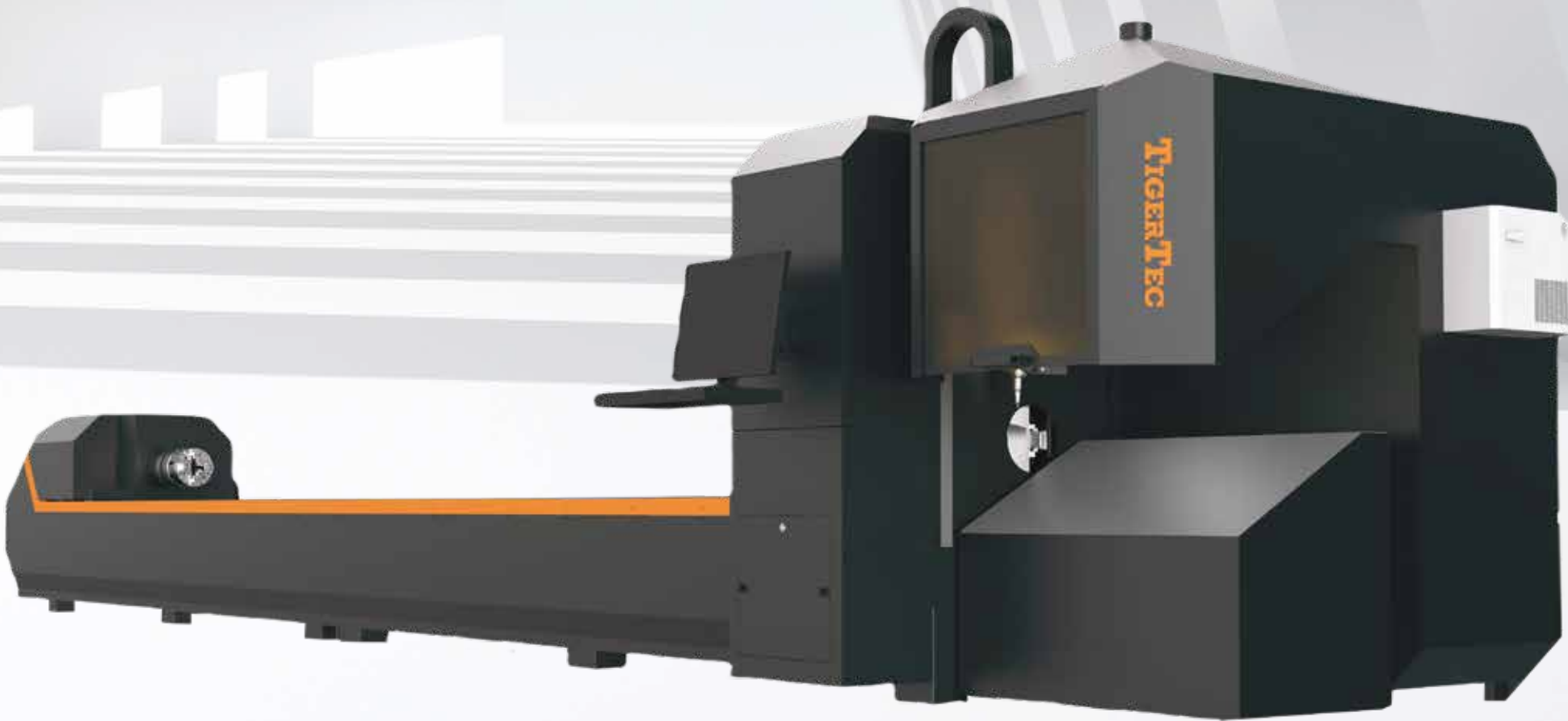
- The front and rear chuck clamping design allows for easy installation, with no consumable wear. This guarantees smooth material feeding and cutting precision
- We use segmented automatic support devices to solve possible deformation problems during long tube cutting. This stability ensures improved accuracy, longer life and reliable vibration resistance
- The contour recognition system automatically identifies standard shapes, such as circles, ovals, squares and other irregular tubes
- Welded steel bed: The machine frame is constructed from multiple sections of welded square tubes, reinforced internally with ribs to enhance strength and tensile resistance

Applications

Metal furniture, medical device, fitness equipment, sports equipment, oil exploration, display shelf, agriculture machinery, bridge supporting, steel rail rack, steel structure, fire control, metal racks, agriculture machinery, automotive, motorcycles, pipes processing etc.

Technical Parameters

Model No.	Working area			Accuracy	Max acceleration	Weight	Foot Print (W*L*H)		
TRF6022T	6200mm	2200mm	2300mm	± 0.03mm/m	1.8G	3800KGS	2440mm	9900mm	2060mm
	244"	86.6"	90.5"				96"	389.8"	81.1"



Enclosed Fiber Laser Cutting Machine

TigerTec enclosed fiber laser cutting machine adopts a fully enclosed laser protective cover. It is equipped with a special observation window for laser protective glass and equipped with a scientific dust recovery and purification treatment system. The overall appearance is beautiful, safe, and environmentally friendly. It is a special equipment for mid-to-high-end plate laser cutting and an essential product for modern manufacturing enterprises.

Outstanding Features

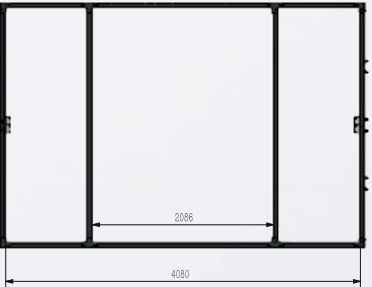
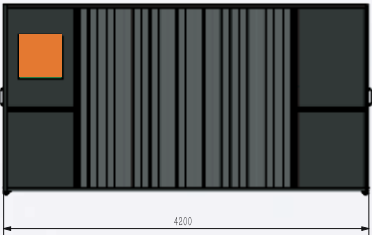
- It offers the versatility to cut a wide range of materials, including stainless steel, aluminum alloy, titanium alloy and carbon steel
- Heavy-duty steel plate welded bed, the bed has good comprehensive performance, high compressive strength and hardness, and is not easy to be deformed by heat, ensuring exceptional durability and stability
- We collaborate with renowned suppliers such as IPG, Raytools, Friendess, Siemens, Schneider, Hiwin and Yaskawa to ensure top-notch quality and reliability
- Powered by the Cypcut intelligent operating system and equipped with the Raytools fiber-specific laser head and high-performance laser source, our machine ensures excellent cutting capabilities
- Fully enclosed cover, stay away from laser radiation
- Concentrate smoke exhaust, safe and environmentally friendly

Applications

Used in sheet metal processing, aviation, aerospace, electronics, electrical appliances, subway accessories, automobiles, food machinery, textile machinery, engineering machinery, precision accessories, ships, metallurgical equipment, elevators, household appliances, craft gifts, as well as tool processing, decoration, manufacturing and processing industries such as advertising, metal external processing and kitchenware processing.

Technical Parameters

Model No.	Working area		Accuracy	Max acceleration	Weight	Foot Print (W*L*H)		
TRFE510	1550mm	3100mm	± 0.03mm/m	1.8G	2150KGS	4200mm	2810mm	2200mm
	61.0"	122.0"				165.3"	110.6"	86.6"
TRFE512	1550mm	4000mm	± 0.03mm/m	1.8G	2700KGS	4200mm	3710mm	2200mm
	61.0"	157.5"				165.3"	146"	86.6"
TRFE712	2050mm	4000mm	± 0.03mm/m	1.8G	3450KGS	4700mm	3710mm	2200mm
	80.7"	157.5"				185"	146"	86.6"
TRFE720	2050mm	6000mm	± 0.03mm/m	1.8G	4900KGS	4700mm	5710mm	2200mm
	80.7"	236.2"				185"	224.8"	86.6"



Handheld 4 in 1 Fiber Laser Welding Machine

TigerTec handheld four-in-one fiber laser welding machine. This new generation of laser welding equipment has four functions: cleaning, cutting, welding and welding seam cleaning. It is easy to operate, produces beautiful welds, welds quickly and does not require consumables. In welding metal materials such as stainless steel, iron plate and galvanized plate, it is a perfect replacement for traditional argon arc welding.

Robotic arm

High Performance, High Quality, Cost-effective - Introducing the All-New TigerTec Automatic 6-Axis Robot Arm 4-in-1 Laser Welding Machine. Our robot arm allows for precise welding of irregular shapes from multiple angles and positions, offering both cutting and welding capabilities, as well as cleaning and seam polishing functions. It can withstand high temperatures and harsh working environments. Reduce the damage to the human body caused by welding, and lay the foundation for the automation of the production line.

Outstanding Features

- The welding range of the TigerTec laser welding machine is wide, with a handheld weld head equipped with an 8-15m original optical fiber cable, which overcomes the limitation of the working space and can perform outdoor and long-distance welding. It is also easy to use and flexible with wheels, making it suitable for various working environments
- It supports multiple welding modes, including lap welding, butt welding, vertical welding, corner welding, inner corner welding, and outer corner welding. With low welding losses, it makes welding tasks easy and reduces material costs
- It has multiple safety alarms to ensure high safety standards and protect operators during operation. It is also user-friendly, easy to learn and control, and saves on labor costs

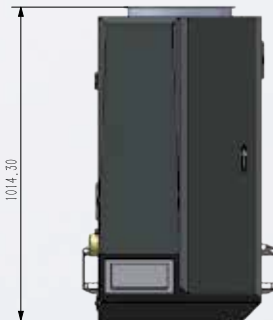
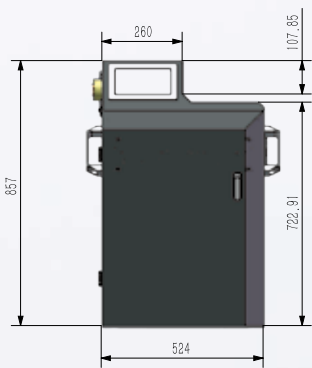
Applications

Widely used in the IT industry, medical equipment, machinery manufacturing, elevator manufacturing, craft gifts, and household appliances.

Technical Parameters

Laser wave length	Accuracy	Welding speed	Weight	Foot Print (W*L*H)		
1080nm	±0.05mm/m	0-120mm/s	110KGS	525mm	1014mm	884mm
				20.7"	39.9"	34.8"

Maximum payload	Re-positioning accuracy	Maximum reaching distance	Robot body weight	Degree of freedom
100KGS	±0.03mm/m	1730mm	285KG	6 Axis



Enclosed Exchange Platform Fiber Laser Cutting Machine

TigerTec enclosed exchange platform fiber laser cutting machine has a fully enclosed protective glass to prevent laser damage to people. It features an automatic system for collecting smoke and dust and an intelligent monitoring system to reduce accidents. It adopts a high-precision rack and guide rail transmission structure and a dual-platform exchange machine bed, making it a high-end plate laser cutting equipment.

Outstanding Features

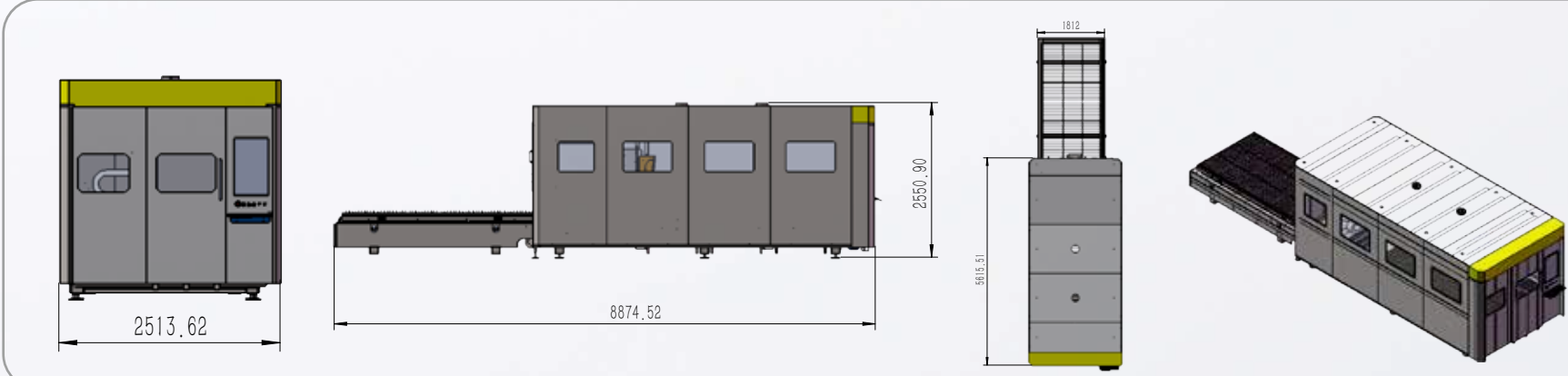
- Fully enclosed cover, stay away from laser radiation
- Concentrate smoke exhaust, safe and environmentally friendly
- Two changeable working table, time saving and efficient
- Cutting head modular design, ultra-low failure rate
- Various working area, can cut small to large plate
- Configured with 3KW to 20KW fiber laser source, can cut thin to thick plate

Applications

Fiber laser cutting machines are used in sheet metal processing, aviation, aerospace, electronics, electrical appliances, subway accessories, automobiles, food machinery, textile machinery, engineering machinery, precision accessories, ships, metallurgical equipment, elevators, household appliances, craft gifts and tool processing, decoration, advertising, metal external processing, kitchenware processing and other manufacturing and processing industries.

Technical Parameters

Model No.	Working area		Accuracy	Max acceleration	Weight	Foot Print (W*L*H)		
TRFEP510H	1550mm 61.0"	3100mm 122.0"	± 0.03mm/m	1.8G	4200KGS	2775mm 109.25"	8878mm 349.5"	2162mm 85.1"
TRFEP512H	1550mm 61.0"	4000mm 157.5"	± 0.03mm/m	1.8G	4600KGS	2755mm 108.4"	10678mm 420.3"	2162mm 85.1"
TRFEP712H	2050mm 80.7"	4000mm 157.5"	± 0.03mm/m	1.8G	5200KGS	3255mm 128.1"	10678mm 420.3"	2162mm 85.1"
TRFEP720H	2050mm 80.7"	6000mm 236.2"	± 0.03mm/m	1.8G	6100KGS	3255mm 128.1"	14678mm 577.8"	2162mm 85.1"



Tube Fiber Laser Cutting Machine

This is an economical laser cutter for pipe, Cost-effective, easy to maintain and easy to operate. It can process most metal materials such as stainless steel, carbon steel and so on. It can process round, square and similar metal pipes, such as water pipes, exhaust pipes, sports equipment, bicycle parts, construction materials, etc.

Outstanding Features

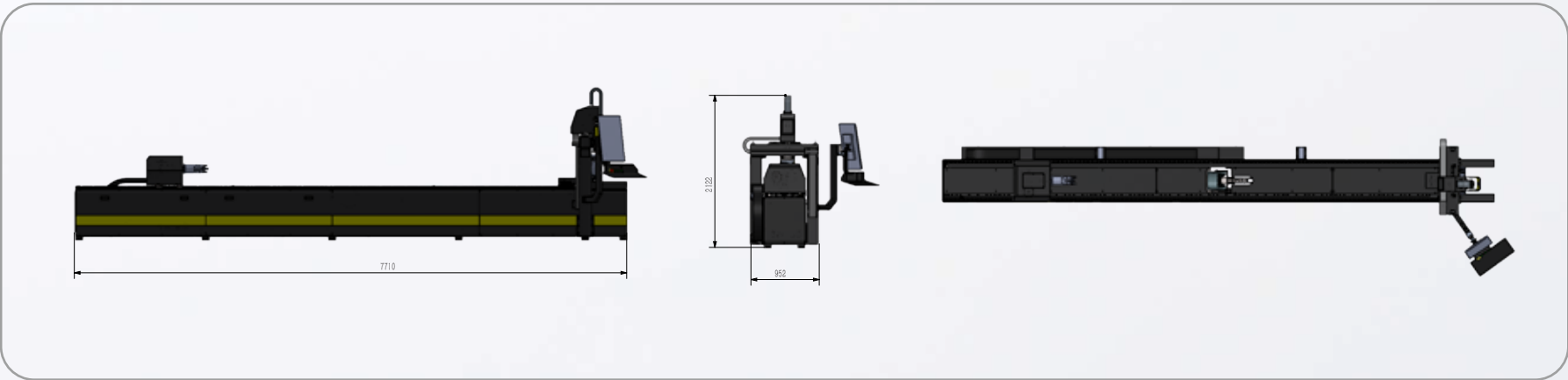
- Utilizing high-precision gears, racks, and linear guides imported for smooth transmission and high accuracy, the fiber laser tube cutting machine ensures stable operation and prolonged lifespan of transmission components through laser interferometry.
- All axes (X, Y, Z, W1, W2) are equipped with domestically produced high-performance servo motors, ensuring high precision, high speed, large torque, and stable performance. This guarantees the machine’s structural stability, good rigidity, lightweight design, and high dynamic response.
- Employing the FSCUT 3000DE-A pipe cutting system based on the Windows operating system, the dedicated Cypcut fiber laser tube cutting machine integrates numerous specialized laser cutting control modules, ensuring powerful functionality and user-friendly interface for simple operation.
- The cutting head offers the option of internationally renowned Bochun company’s fiber laser-specific cutting head and capacitive sensing, ensuring high precision, responsive performance, and stable reliability.

Applications

Affordable Metal Tube Laser Cutting Machine is specialized for sheet metal processing, machinery manufacturing, auto parts manufacturing, electrical manufacturing, elevator manufacturing, petroleum machinery, food machinery, decorative advertising, etc.

Technical Parameters

Pipe Processing Range	Round tube 120mm, Square tube 115mm
Laser Power	1.5KW/2.0KW/3.0KW
Maximum Speed	100m/min
Maximum Rotational Speed	100rpm
Maximum Load Weight	100kgs
X/Y Axis positioning accuracy	±0.05mm/m
X/Y Axis repeated positioning accuracy	±0.02mm/m
Maximum Acceleration	1.0G



Consumable

• Nozzle



• Protective Lens



• Protective Windows Base Seat



• Ceramic



Samples



Applications



Shipbuilding Industry



Aerospace field



Elevator equipment



Electronic equipment



Kitchen appliances



Car accessories



Agricultural machinery



Auto mechanical



Medical equipment

We Do In-door

