

# FLK LASER

**CUTTING** BENDING WELDING CLEANING CLADDING MACHINING AUTOMATION

# A GLOBAL PROVIDER OF ONE-STOP METAL FABRICATION SOLUTIONS

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# FEILKE is an international metal forming automation company. Feilike (FLK

Laser) is designed to provide customers with high-quality, fully automatic solutions globally. It has become a technology-driven innovation enterprise by independently developing many core technologies in the laser industry and combining laser cutting, bending, welding, cladding and automation into one product to greatly improve production efficiency for customers with multiple automatic equipment requirements.

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#### +570 PATENT CERTIFICATIONS

We have obtained CE, ROHS, FDA, ETL, CSA certificates from TÜV, and our quality and safety standards have reached international certifications



# LASER CUTTING

- Metal Sheet Cutters
- Tube Laser Cutters
- Sheet & Tube Combo
- 3D Laser Cutters





## **1.5kW-6kW Metal Sheet Fiber Laser Cutter N Series**

A new technically-improved but affordable model in 2025. It is ideally suitable for cutting medium-thin sheet (≤20mm). Thanks to its open-style structure and small footprint, it has turned into a new choice for customers with limited plant area.



# **Economical Laser Cutting Machine**

3050\*1530 mm Max sheet size



### **Performance Benefits**

It can cut various metal sheets at lightning-fast speed and high quality.



**UDEM-CE** Certified

ROHS Certified

FDA Certified

# **3-12kW Fiber Laser Sheet Cutter NP Series**

This machine is specifically developed for cutting medium and thin (≤30mm) sheet. It is compact with open-style structure and offers two different configurations. Both its hardware and software have been recently upgraded to better meet actual needs of users. A 40HQ container can accommodate 6 sets of 3015NP, allowing for LCL packaging at much less freights.





## **1.5kW-12kW Metal Sheet Fiber Laser Cutter H Series**

A high-power high-performing machine recently upgraded in 2024. Ranging from 6kW to 30kW, it is suit to cut medium-thick plate (≥20mm) and featured by fast speed and high precision. Needing much less working time and costs, it has developed into the first choice for users who pursue for high cutting efficiency.



	Model
Main Parameters	3015H
Laser Power (kW)	1.5-12
Working Area (L*W, mm)	3050*1530
X/Y-axis Positioning Accuracy (mm)	±0.05
X/Y-axis Repositioning Accuracy (mm)	±0.02
Max No-load Speed (m/min)	130
Max Load of Platforms (kg)	700
Overall Dimensions (L*W*H, mm)	8520*2270*2180
Power Supply	Three-phase 380V, 50Hz/60Hz





**UDEM-CE** Certified

**TUV-CE** Certified

# 6kW-30kW High-power Plate Laser Cutter H Series

A high-power high-performing machine recently upgraded in 2024. Ranging from 6kW to 30kW, it is suit to cut medium-thick plate (≥20mm) and featured by fast speed and high precision. Needing much less working time and costs, it has become the first choice for users who pursue high cutting efficiency.



**FDA Certified** 

**ROHS** Certified

**ETL Certified** 

Model	SF3015H/SF4020H/SF6020H/SF6025H/SF8025H/SF12025H
Working Area(mm)	3050* 1530/4050 * 2030/6050* 2030/6050* 2530/ 8050 * 2530/12050* 2530
Laser Power(kw)	6/8/12/15/20/30
Maximum Speed(m/min)	130
Maximum acceleration(G)	1.0
X/Y Axis positioning accuracy(mm/m)	±0.05
X/Y Axis repeated positioning accuracy(mm)	± 0.02



#### Intelligent Spiral Vacuum Dust Removal

The intelligent spiral vacuum dust removal is a time-sharing system with an automatic air outlet switch, sectional air exhaust, and can cooperate with the back-shaped sealing structure design at the bottom of the base to realize smokeless cutting. 8kw or higher power machine comes with a graphite, copper protection.



## 3100\*1550mm Fiber Laser Sheet Cutter 1530N

This affordable model is compact in size but adopts protective chamber. It is a great option for customers who hope for fast, safe and eco-friendly production in the limited plant area.

- 1.5-12 [kW] Laser power
- 3100\*1550 [mm] Sheet size
- 100 [m/min] Max no-load speed
- 1100 [kg] Load of platform



	Model	
Main Parameters	1530N	
Laser Power (kW)	1.5-12	
Working Area (L*W, mm)	3100*1550	
X/Y-axis Positioning Accuracy (mm)	±0.05	
X/Y-axis Repositioning Accuracy (mm)	±0.02	
Max No-load Speed (m/min)	100	
Max Load of Platforms (kg)	1100	
Overall Dimensions (L*W*H, mm)	4845*4030*2075	
Power Supply	Three-phase 380V, 50Hz/60Hz	

- Water Cooler
- Transformer
- Stabilizer
- Fan
- Laser Source
- 2-year Warranty
- Free Installation Training



# 1300\*1300mm Fiber Laser Sheet Cutter 1313G

This affordable model is compact in size but adopts protective chamber. It is a great option for customers who hope for fast, safe and eco-friendly production in the limited plant area.

- 1.5-3 [kW] Laser power
- 1300\*1300 [mm] Sheet size
- 80 [m/min] Max no-load speed
- 220 [kg] Load of platform



Main Damanatan	Model
Main Parameters	1313G
Laser Power (kW)	1.5-3
Working Area (L*W, mm)	1300*1300
X/Y-axis Positioning Accuracy (mm)	±0.05
X/Y-axis Repositioning Accuracy (mm)	±0.02
Max No-load Speed (m/min)	80
Max Load of Platforms (kg)	220
Overall Dimensions (L*W*H, mm)	2985*2160*2000
Power Supply	Three-phase 380V, 5 0Hz/60Hz



# **Ultra-large Format Laser Metal Cutter R Series**

This super-sized machine may be customized as needed in terms of working area because of its modular body. For some extra-large workpieces, it is easy to cut and transfer. Such ultra-high-power model fits to cut long (≥6000mm) and heavy sheets as a good choice for shipbuilding, engineering and construction machinery, etc.



- 6000\*3000-30000\*4000 [mm] Plate size
- 120 [m/min] Max no-load speed
- 7000-47000 [kg] Load of platform



The "ultra-large format" refers to the machine's ability to handle large sheets of material, with a maximum length of up to 32m and a width of up to 5m. It is commonly used in industries such as aerospace, steel structure, and construction, where precision cutting of large parts is required. It allows for faster and more precise cutting, making it a popular choice for industrial applications.



Main Parameters	Model						
Imain Parameters	SF6030R	SF8030R	SF12030R	SF14030R	SF24040R	SF30040R	
Laser Power (kW)	6-60	6-60	6-60	6-60	6-60	6-60	
Working Area (L*W, mm)	6000*3000	8000*3000	12000*3000	14000*3000	24000*4000	30000*4000	
X/Y-axis Positioning Accuracy (mm)	±0.1/10000	±0.1/10000	±0.1/10000	±0.1/10000	±0.1/10000	±0.1/10000	
X/Y-axis Repositioning Accuracy (mm)	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05	
Max No-load Speed (m/min)	120	120	120	120	120	120	
Max Load of Platform (kg)	7000	9400	14000	16500	37500	47000	
Overall Dimensions (L*W*H, mm)	8466*4609* 1975	10784*4609 *1975	15101*4609 *1975	17679*4609 *1975	29861*5609 *1975	36956*5609 *1975	
Power Supply	Three-phase 380V, 50Hz/60Hz (custom-made)						



**UDEM-CE** Certified

**ROHS** Certified

# **Ultra-large Beveling Laser Metal Cutter TX Series**

This large-sized machine can enable both straight cut and beveling. Its modular body may be tailored in terms of length and width, in order to cut ultra-long (≥6000mm) and super-heavy plate. Besides, its standard-compliant beveling contributes to making later welding firm enough.



**FDA Certified** 

#### Stable cutting of medium-thick sheet

 $\circ~$  6-90mm stainless steel, 5-80mm carbon steel, 5-60mm AL alloy and 5-30mm brass

#### Cut large sheet as a whole

• No need to cut piecewise, nor split welding

#### ±45° beveling

Not only cut with 0° straight section, but also enable X, Y, V-shaped beveling
 High degree of intelligence

 With advanced software and hardware, it has various functions and gets increasingly rising acceptance beyond the sea

Model	SF12030TX/SF20040TX
Working Area(mm)	12000 * 3000 /20000* 4000
Laser Power(kw)	6kw~60kw
X/Y Axis positioning accuracy(mm)	±0.1/10000mm
X/Y Axis repeated positioning accuracy(mm)	±0.05mm
Maximum Speed(m/min)	130m/min
Maximum acceleration	1G
Bevel angle	±45°
Total Weight(KG)	14000KG
Maximum load of worktable(KG)	8500KG

#### **Performance Benefits**

This machine is superior in ability, due to it being able to cut large-sized mediumthick sheet (length: over 6000mm, thickness: over 20mm) in batch.







# 9-12m Heavy-duty Tube Laser Cutting Machine with Three Chucks ST Series

As a hi-end machine, ST series are suitable for cutting heavy and long tubes and have a large body that requires big enough workshop. We tend to recommend it to heavy industries requiring large-sized equipment like engineering, heavy and construction machinery.

- Intelligent bus-based CNC
   system
- Autofocus laser cutting head
  - Three high-precision chucks •
- Side-attached heavy-duty
   machine tool
- Laser generator with 75µm fiber core
- Automatic unloading device
- 2-year warranty period
- 24/7/365 technical support

Model	SF9035ST	SF12035ST	SF12050ST
Laser Power (kW)	6-20	6-20	6-20
Max Length of Tube (mm)	9000	12000	12000
Scope of Tube Size (mm)	Ф20~360	Φ50~360	Φ50~500
Scope of Tube Size (mm)	□20*20~360*360	□50*50~360*360	□50*50~500*500
Max Weight of Tube (kg)	1200	1200	2000
X/Y-axis Positioning Accuracy (mm/m)	±0.05	±0.1/10000	±0.1/10000
X/Y-axis Repositioning Accuracy (mm)	±0.03	±0.05	±0.05
Max No-load Speed (m/min)	60	60	40
Max Rotating Speed of Chucks (r/min)	60	60	40
Overall Dimensions (L*W*H, mm)	18000*7000* 4500	21500*7000*450 0	22000*7200*4150
Power Supply	Three-phase	e 380V, 50Hz/60Hz	(custom-made)

#### • 6-20 [kW] Laser power

- 9000-12000 [mm] Tube length
- 20-500 [mm] Tube size

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**TUV-CE** Certified

• 1200-2000 [kg] Tube weight



**ROHS** Certified

**FDA Certified** 

#### **Performance Benefits**

With 3 chucks, the machine witnesses larger clamping force and makes heavy and long tube cutting precision higher. Driven by innovation and practicability, it is forwardlooking while solving tube cutting problems.





## **PLUS Series High-speed High-precision Tube Laser Cutter**

This is a new product after technical upgrades based on global users' actual use feedback. It can cut small tubes at fast speed and high precision. With unique function, PLUS series cut tubes with ultra-short or even 0 tailing and take into account of  $\pm 45^{\circ}$  bevel cutting (optional) to get ready for follow-on welding. Now, we have multiple different models for selection.

- 1.5-6 [kW] Laser power
- 9000 [mm] Max length of tube
- 20-230 [mm] Tube size
- 120-250 [kg] Max weight of tube



- Special for small tubes
- Multiply cutting speed
- High-precision cutting

- Cut with 0 tailing
- Deal with high-reflectivity tubes
- Wide range of applications

Model	SF6012PLUS	SF6016PLUS	SF6024PLUS	SF9016PLUS	SF9024PLUS
Laser Power	1.5-3kW	1.5-3kW	1.5-6kW	3-6kW	1.5-6kW
Max Length of Tube (mm)	6500	6500	6500	9000	9000
Scope of Tube Size (mm)	Φ20~120	Φ20~170	Φ20~230	Φ20~170	Φ20~230
	□20*20~120*120	D20*20~170*170	<b>20*20~230*230</b>	<b>□20*20~170*170</b>	<b>20*20~230*230</b>
Max Weight of Tube (kg)	120	150	250	150	250
X/Y-axis Positioning Accuracy (mm)	±0.05	±0.05	±0.05	±0.05	±0.05
X/Y-axis Repositioning Accuracy (mm)	±0.02	±0.02	±0.02	±0.02	±0.02
Max No-load Speed (m/min)	120	120	100	120	100
Max Rotating Speed of Chucks (r/min)	150	150	100	150	100
Overall Dimensions (L*W*H, mm)	8580*3100*2100	0000*2100*2100	9320*23400*230	11480*3200*210	11920*3500*240
	0000 0100 2100	0500 3100 2100	0	0	0
Power Supply		Three-phase 38	30V, 50Hz/60Hz (ci	ustom-made)	

# UDEM-CE Certified ROHS Certified TUV-CE Certified FDA Certified

#### **Performance Benefits**

PLUS series learn from our multiple current machines and put various tube cutting functions together. As thus, a bran-new machine has presented to global customers.





# **6m Laser Tube Cutter with Dual Chucks T Series**

With advanced configurations, T series come standard with two chucks to cut tubes with ultrashort tailing. For small tube, there is no overburning or adhering slag. As for large tube, the cutting is at fast speed. It enjoys fast shipment and delivery, and is widely used in rail transit, automobile production, construction machinery, agricultural and forestry machinery, etc.

- Cut tubes of various sizes
- Ultra short ta iling
- Multiply cutting speed
- Ease of operation
- Deal with high-reflectivity tubes
- Wide range of applications

			Model		
Main Parameters	SF6012T	SF6016T	SF6020T	SF6024T	SF6035T
Laser Power (kW)	1.5-3	1.5-3	1.5-6	1.5-6	1.5-6
Max Length of Tube (mm)	6000	6000	6000	6000	6000
Score of Tube Size (mm)	Φ8~120	Φ10~160	Φ10~220	Φ10~230	Φ20~360
Scope of Tube Size (mm)	□8*8~120*120	<b>□10*10~160*160</b>	□10*10~150*150	<b>□10*10~230*230</b>	□20*20~360*360
Max Weight of Tube (kg)	120	160	200	250	500
X/Y-axis Positioning Accuracy (mm)	±0.05	±0.05	±0.05	±0.05	±0.05
X/Y-axis Repositioning Accuracy (mm)	±0.02	±0.02	±0.02	±0.03	±0.03
Max No-load Speed (m/min)	150	110	100	100	60
Max Rotating Speed of Chucks (r/min)	180	140	100	100	60
Overall Dimensions (L*W*H, mm)	8900*2100*2100	8900*2100*2100	9260*1900*2280	9260*1900*2280	9500*2050*2550
Power Supply	Three-phase 380V, 50Hz/60Hz				

- 1.5-6 [kW] Laser power
- 9000 [mm] Max length of tube
- 20-230 [mm] Tube size

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**TUV-CE** Certified

• 120-250 [kg] Max weight of tube



**ROHS** Certified

**FDA Certified** 

#### Performance Benefits

T series, with super-high cutting ability and dynamic performance, can cut various small and large tubes at high speed. Such outstanding capability profits from its high-level configurations.





# 6-12m Laser Tube Cutter with Three Chucks NT Series

This all-purpose machine fits for cutting long (6000-12000mm) and large (360mm at most) tube. There are three chucks, though, but 0 tailing is also possible to achieve as long as related procedures are well-arranged. It is good for maximizing materials and saving costs of purchase.

- 1.5-6 [kW] Laser power
- 6000-12000 [mm] Max length of tube
- 20-360 [mm] Tube size
- 250-1000 [kg] Max weight of tube



- Special for cutting long tube
- Multiply cutting speed
- Ease of operation

Main Parameters			Model		
Main Parameters	SF6024NT	SF6035NT	SF9024NT	SF9035NT	SF12035NT
Laser Power (kW)	1.5-6	1.5-6	1.5-6	1.5-6	1.5-6
Max Length of Tube (mm)	6000	6000	9000	9000	12000
Scope of Tube Size (mm)	Φ20~240 ⊓20*20~230*230	Φ20~360 ≂20*20~260*260	Φ20~240 ≂20*20~220*220	Φ20~360	Ф50~360
		L20*20*360*360			L50*50*360*360
Max Weight of Tube (kg)	250	1000	250	1000	1000
X/Y-axis Positioning Accuracy (mm)	±0.05	±0.05	±0.05	±0.05	±0.05
X/Y-axis Repositioning Accuracy (mm)	±0.03	±0.03	±0.03	±0.03	±0.03
Max No-load Speed (m/min)	75	60	75	60	60
Max Rotating Speed of Chucks (r/min)	100	60	100	60	60
Overall Dimensions (L*W*H, mm)	13350*2750*261	13500*2750*339	16500*2750*261	16500*2750*339	19500*2750*339
	5	0	5	0	0
Power Supply		Three-phase 3	80V, 50Hz/60Hz (	custom-made)	



#### **Performance Benefits**

It is used to cut round, square, rectangular, oval tube, I-beam, as well as channel, angle tube, C-profile and H-shaped steel at high precision.

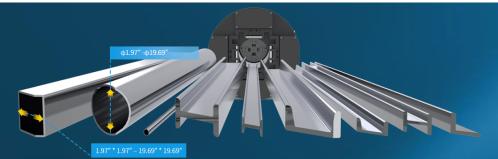




# 12m Tube Laser Cutter with Four Chucks SF12050HT

It is born for cutting large, heavy and long tubes. We offer special side-attached machine tool and automatic loading & unloading devices. That is why this machine covers a relatively large area. So, it is recommended to heavy industries requiring large-sized equipment like engineering, heavy and construction machinery.

		Model
	Main Parameters	SF12050HT
	Laser Power (kW)	6-20
	Max Length of Tube (mm)	12000
	Scope of Tube Size (mm)	Ф50-500 □50*50~500
6-20 [kW] Laser power	Max Weight of Tube (kg)	2000
<ul> <li>12000 [mm] Max length of tube</li> </ul>	X/Y-axis Positioning Accuracy (mm)	±0.1/10000
<ul> <li>50-500 [mm] Tube size</li> </ul>	X/Y-axis Repositioning Accuracy (mm)	±0.05
<ul> <li>2000 [kg] Max weight of tube</li> </ul>	Max No-load Speed (m/min)	40
	Max Rotating Speed of Chucks (r/min)	40
	Overall Dimensions (L*W*H, mm)	29000*7200*4150
e.,	Power Supply	Three-phase 380V, 50Hz/60Hz (custom-made)
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#### **Four-Chuck Clamping**

4 pneumatic chucks empowers the tube cutter with big clamping force, to clamp heavy tubes stably and easily. Four chucks can achieve cutting in reversed ways to realize the whole pipe processing of long tubes and achieve zero tailings for larger material utilization and cost-saving. With the strong clamping force, there is no loosening or slipping of the heavy pipe, which will result in more stable feeding and precise cutting.





# Heavy-duty H Beam Laser Cutting Machine SF1500CH

SF1500CH is designed to solve the high-precision cutting challenges of complex structural steel. With double semi-enclosed workstations, it fits to cut ultra-long H beam and needs relatively large workshop as a large heavy machinery.

	Main Parameters	Model	
	Main Parameters	SF1500CH	
	Laser Power (kW)	12-30	
	Working Area (L*W, mm)	28000*3000	
•	Max width of H beam (web, mm)	1200	
	Max height of H beam (flange slab, mm)	500	
	Max thickness	≤50mm (straight cutting) ≤35mm (flange slab beveling)	
	X/Y-axis Positioning Accuracy (mm)	±0.1	
	X/Y-axis Repositioning Accuracy (mm)	±0.05	
	Max No-load Speed (m/min)	50	
	Overall Dimensions (L*W*H, mm)	35670*5900*3030	
FLK LASER	Power Supply	Three-phase 380V, 50Hz/60Hz (custom-made)	
<ul> <li>12-30 [kW] Laser power</li> <li>28000*3000 [mm] Working area</li> <li>35-50 [mm] Max sheet thickness</li> <li>50 [m/min] Max no-load speed</li> </ul>	<ul> <li>CNC system special for H- shaped steel</li> <li>Self-developed laser cutting head</li> <li>Intelligent laser generator</li> <li>Segmented heavy-duty mac tool</li> </ul>	<ul> <li>Special gantry steel-made beam</li> <li>Dual stations for loading and unloading</li> <li>2-year warranty period</li> <li>24/7/365 technical support</li> </ul>	

**UDEM-CE** Certified

**ROHS** Certified

FDA Certified

#### **Performance Benefits**

The machine is open-style with dual-driven gantry structure, so, its beam is usually under uniform force and hard to deform. It has high cutting ability of profiles.







# **Full Cover Sheet and Tube Laser Cutter HM Series**

This dual-purpose machine can cut both sheet and tube. With it, users need half costs of purchase than before at least. Due to its small footprint (50% less), workshops will be fully utilized. It has got CE-TUV, FDA, RoHS, ETL certifications.

- 1.5-6 [kW] Laser power
- 3050\*1530-6050\*2030 [mm] Sheet size
- 20~220 [mm] Scope of tube size
- 2000 [kg] Max load of sheet platforms



- One machine with two functions
- Nearly smoke-free work
- Speed up metal cutting
- High efficiency to free from worry

	Model					
Main Parameters	SF3015HM	SF4020HM	SF6015HM	SF6020HM		
Laser Power (kW)	1.5-6	1.5-6	1.5-6	1.5-6		
Sheet Size (L*W, mm)	3050*1530	4050*2030	6050*1530	6050*2030		
Length of Tube (mm)	500-6000	500-6000	500-6000	500-6000		
Scope of Tube Size (mm)	20~220	20~220	20~220	20~220		
X/Y-axis Positioning Accuracy (mm)	±0.05	±0.05	±0.05	±0.05		
X/Y-axis Repositioning Accuracy (mm)	±0.02	±0.02	±0.02	±0.02		
Max No-load Speed (m/min)	130	130	130	130		
Max Load of Sheet Platforms (kg)	700	1250	1400	2000		
Overall Dimensions (L*W*H, mm)	9100*3910*2260	10600*4460*2260	14737*3910*2260	14816*4460*2260		
Power Supply	Three-phase 380V, 50Hz/60Hz (custom-made)					

# UDEM-CE CertifiedROHS CertifiedFDA CertifiedPerformance BenefitsTUV-CE CertifiedETL CertifiedIt can cut both sheet and tube. With it, you will take more cutting demands easy, gaining more advantages over peers while exploring new markets and customers.

# Sheet size 3050\*1530-6050\*2030mm Tube diamerer Tube length 920-220mm 6000mm \$20mm



# **Open Type Sheet and Tube Combo C Series**

As an affordable model, It adopts single platform and compact-style structure, with relatively small footprint, so, it needs much less upfront investment and is a right choice for start-ups. It has got CE, FDA certifications.



- Self-developed CNC system at high performance
- Autofocus laser cutting head
- Precision pipe-welding machine tool
- Pneumatic self-centering chuck

- High-strength AL alloy beam
- Small-sized laser generator
- 2-year warranty period
- 24/7/365 technical Support
- One machine with two functions

	Model						
Main Parameters	SF3015C	SF4015C	SF4020C	SF6015C	SF6020C		
Laser Power (kW)	1.5-6	1.5-6	1.5-6	1.5-6	1.5-6		
Working Area (L*W, mm)	3050*1530	4050*1530	4050*2030	6050*1530	6050*2030		
X/Y-axis Positioning Accuracy (mm)	±0.05	±0.05	±0.05	±0.05	±0.05		
X/Y-axis Repositioning Accuracy (mm)	±0.02	±0.02	±0.02	±0.02	±0.02		
Max No-load Speed (m/min)	100	100	100	100	100		
Diameter of Round Tube (mm)	20-220	20-220	20-220	20-220	20-220		
Tube Length (mm)	500-6000	500-6000	500-6000	500-6000	500-6000		
Max Load of Platform (kg)	700	950	1250	1400	2000		
Overall Dimensions (L*W*H, mm)	8500*3740*2 100	8500*3740*2 100	8600*4200*2 100	8800*3740*2 100	8800*4200*2 100		
Power Supply	Three-phase 380V, 50Hz/60Hz						

#### **Performance Benefits**

It can cut both sheet and tube. With it, you will take more cutting demands easy, save 50%+ space and halve your costs of purchase at least, gaining more advantages over peers while exploring new markets and customers.



**UDEM-CE** Certified

**ROHS** Certified

FDA Certified







# **FANUC 3D Robotic Laser Cutting Machine RC Series**

This highly integrated machine is compact in size and small in footprint. It is made up of vertical structure, FANUC precision robot and 3D laser cutting head, and mainly direct to workpieces of small size, various shapes and complex structure.

• 1.5-20 [kW] Laser power

- 16 [mm] Max cutting thickness
- 1853 [mm] Robot armspan
- 360 [°] cutting at will



	Model					
Main Parameters	SF1500RC	SF2000RC	SF3000RC	SF6000RC	SF12000RC	SF20000RC
Laser Power (kW)	1.5	2	3	6	12	20
Laser Wavelength (nm)	1080 (±10)	1080 (±10)	1080 (±10)	1080 (±10)	1080 (±10)	1080 (±10)
Type of Cooling	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Length of Optical Fiber (m)	10	10	20	20	20	20
Cutting Thickness (mm)	≤3	≤4	≤6	≤7	≤10	≤14
Number of Robot Axes	6 axes	6 axes	6 axes	6 axes	6 axes	6 axes
Robot Radius (mm)	1853	1853	1853	1853	1853	1853
Repositioning Accuracy of R obot (mm)	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02
Total Mass of Robot (kg)	210	210	210	210	210	210
Power Supply	Three-phase 380V, 50/60HZ					

**3D** cutting Work flexibly in 3D space and fit for cutting workpieces of complex shapes and structures

#### Cut at high precisión

Its advanced visual system can identify, position and program workpieces to enhance cutting precision

Easy to maintain Due to its highly integrated structure, all operations like repair and maintenance will be done together



High level of automation High configurations, intelligent programming, easy to operate and automatic cutting available



# FANUC Gantry-type 3D Robotic Laser Cutting Machine RC Series

This cutting-edge laser cutting machine is made up of gantry-type structure, FANUC precision robot and 3D laser cutting head. It outperforms in cutting efficiency, flexibility and automation. To be specific, RC can rapidly cut large-format, multi-shaped and other complicated workpieces.

- 1.5-20 [kW] Laser power
- 16 [mm] Max cutting thickness
- 1853 [mm] Robot armspan
- 360 [°] cutting at will



	Model					
Main Parameters	SF1500RC	SF2000RC	SF3000RC	SF6000RC	SF12000RC	SF20000RC
Laser Power (kW)	1.5	2	3	6	12	20
Laser Wavelength (nm)	1080 (±10)	1080 (±10)	1080 (±10)	1080 (±10)	1080 (±10)	1080 (±10)
Type of Cooling	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
Length of Optical Fiber (m)	10	10	20	20	20	20
Cutting Thickness (mm)	≤3	≤4	≤6	≤7	≤10	≤14
Number of Robot Axes	6 axes	6 axes	6 axes	6 axes	6 axes	6 axes
Robot Radius (mm)	1853	1853	1853	1853	1853	1853
Repositioning Accuracy of Robot (mm)	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02	± 0.02
Total Mass of Robot (kg)	210	210	210	210	210	210
Power Supply	Three-phase 380V, 50/60HZ					

- 3D cutting
- Cut at high precisión
- Easy to maintain
- High level of automation

UDEM-CE Certified

ROHS Certified

FDA Certified



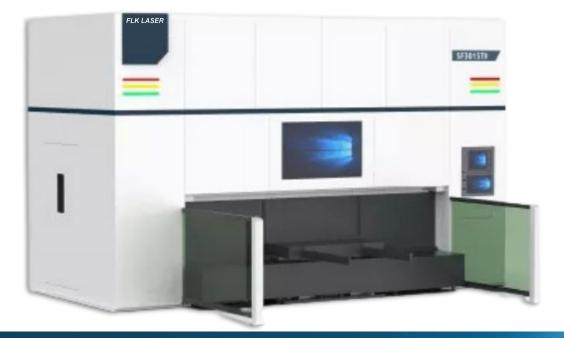
# **Five-axis Laser Cutting Machine For 3D Surfaces**

This machine is specially designed to precisely cut complex shapes such as automotive body parts and dashboards and drill & trim 3D hot-forming metal workpieces, with high flexibility. As thus, automobile will be more light-weight and extend its endurance mileage.

- 3[kW] Laser power
- N\*360° Limitless rotation
- ±135° Swing

**UDEM-CE** Certified

• 100 [m/min] Max no-load speed



**FDA Certified** 

**ROHS** Certified

- Cut complex curved 3D workpiece at fast speed
- Cut at high quality
- 360° cutting

Main Parameters	Model			
	SF3015TD			
Laser Power (kW)	3			
Travel Range (L*W, mm)	1064			
Max Pulse Energy (mJ)	3000*1500			
X/Y-axis Positioning Accuracy (mm)	±0.1			
X/Y-axis Repositioning Accuracy (mm)	±0.05			
Max No-load Speed (m/min)	100			
Max Acceleration (G)	1			
Machine cooling	Air-cooled			
A-axis Rotating Angle	± 135°			
C-axis Rotating Angle	N*360°			
Overall Dimensions (L*W*H, mm)	6000*2800*2755			
Power Supply	Three-phase 380V, 50Hz/60Hz (custom-made)			

- N\*360° fully surround cutting
- 3-5 times faster than traditional 3D robots
- Fully enclosed intelligent anti-collision structure
- Suitable for workpieces of various shapes (flat, curved, spherical, etc.)
- Super-high speed and precision

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