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SENFENG

HOW TO SELECT YOUR AUTOMATION MACHINES

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Provide Global Customers with Metal
Forming Automation Solutions

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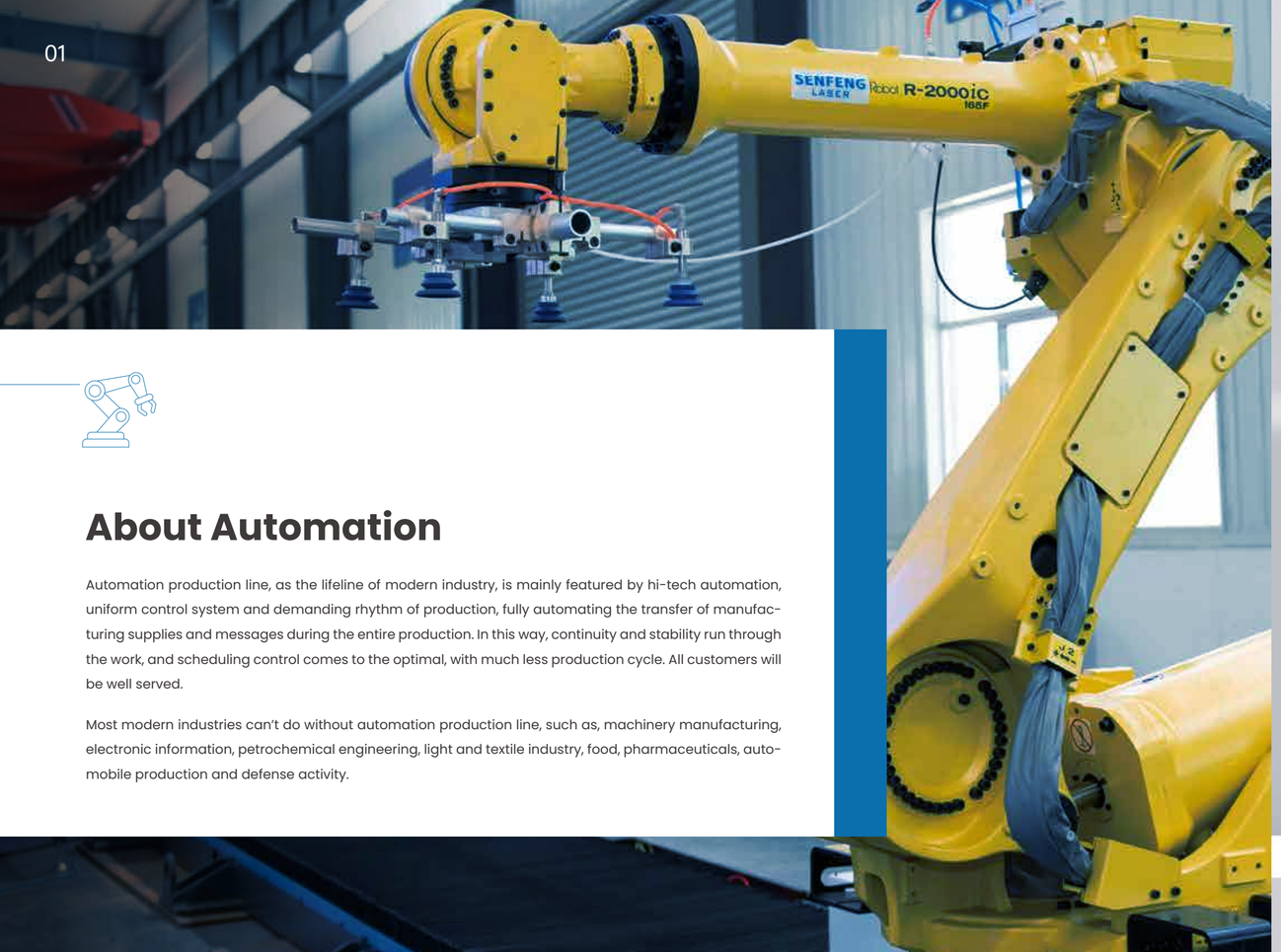

About Automation

Automation production line, as the lifeline of modern industry, is mainly featured by hi-tech automation, uniform control system and demanding rhythm of production, fully automating the transfer of manufacturing supplies and messages during the entire production. In this way, continuity and stability run through the work, and scheduling control comes to the optimal, with much less production cycle. All customers will be well served.

Most modern industries can't do without automation production line, such as, machinery manufacturing, electronic information, petrochemical engineering, light and textile industry, food, pharmaceuticals, automobile production and defense activity.

Technical Patents at Home and Abroad

With professional R&D centers and sophisticated R&D teams, we have got 577 technical patents and showcased our technical strengths to all global customers.

577 Technical Patents

By the end of Dec. 31, 2022.

International Certifications

Our export machines have got TUV-CE (EU), FDA (the United States), ETL (the North America), CSA (Canada) and many other certifications. This means that our machines have reached the world advanced level in both quality and safety.

FENG CLOUD System

Digital and Intelligent

The system can access into other global-oriented web platforms to link up up machines, production line, staff, factory, warehouse, supplier, finished products and customers, just for sharing data and resources. In this way, the entire manufacturing process will become more digitized, networked, automatic and intelligent.

Smart Interconnection with Each User

Go out with peace of mind

Finished product positioning, track query, remote failure diagnosis, history machine failure query.

Keep your machine safe

Remote diagnosis and maintenance, redundancy, real-time record of historical data, and efficient connection with MES system in customer factory.

Make high-quality plans

Save manufacturing costs by making good-value plans after calculating the specific manufacturing and repair costs in specified algorithm.

Advance into 5G era

Use 5G technology to connect laser machines with AI, in order to make our worldwide remote diagnosis service easy and responsive.

Business Division

As global market needs are becoming more personalized, diversified and ever-changing, and labor force available is fewer and fewer, it is inevitable for mechanical machines to be automatic and intelligent. Aiming at the construction of unmanned factory, SENFENG can customize metal forming automation solutions as needed, including laser blanking lines, fully-automatic laser blanking lines, automatic loading & unloading and cutting devices, flexible laser processing lines (TOP flexible metal processing line) and other order-made machines. Laser cutting works with automation technology to make production faster, machines better and manufacturing costs lower, giving an impetus to the traditional manufacturing industry.

Laser Blanking Lines SF0801L

▶ Bran-new technology and outperform in work efficiency

4 Competitive Strengths

- Address traditional problems
- Damage-free feeding
- Feeding error correction to keep cutting precision high
- Cut sheet coils at high quality and utilization rate

Technical Parameters

Model	SF0801L
Laser power	1500W
Thickness of sheet coil	0.6-1.2mm
Max weight of sheet coil	≤5T
Width of sheet coil	800mm

* Machine appearance, function description and technical parameters on this page are derived from SENFENG's Technical R&D Center based on our self-developed machines. For reference only, in kind prevail!

Laser Blanking Lines
SF15015C

▶ New structure with high value for money

3 Competitive Strengths

- Creative structure of integration
- Easy to operate and intelligent control
- Electric components at high quality

Technical Parameters

Model	SF15015C
Laser power	1500-3000W
Thickness of sheet coil	0.8-1.2mm
Max weight of sheet coil	≤10T
Width of sheet coil	600-1500mm
Loading device	Multi-split decoiler (optional)
Other functions	Sticker/ink jetting/galvanometer marking (optional)

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Laser Blanking Lines
SF1502C

▶ Easy to start your production and long service life

4 Competitive Strengths

- Address traditional problems
- Patented technology of high-precision error correction
- Rapid stress relief
- Precise, intelligent, efficient and save raw materials

Technical Parameters

Model	SF1502C
Laser power	1500-6000W
Thickness of sheet coil	0.6-2.0mm
Max weight of sheet coil	≤10T
Width of sheet coil	600-1500mm
Loading device	Multi-split decoiler (optional)
Cutting device	Two/three/four cutting heads (optional)
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)

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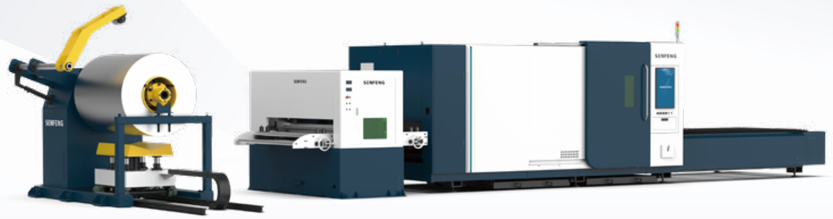
Laser Blanking Lines
SF1502CH

▶ Only click a key to get started



4 Competitive Strengths

- Address traditional problems
- Patented technology of high-precision error correction
- Rapid stress relief
- Precise, intelligent, efficient and save raw materials

Technical Parameters

Model	SF1502CH	
Laser power	1500-6000W	
Thickness of sheet coil	0.6-2.0mm	
Max weight of sheet coil	≤10T	
Width of sheet coil	600-1500mm	
Working area	3000*1500mm	6000*1500mm (custom-made)
Loading device	Multi-split decoiler (optional)	
Cutting device	Two/three/four cutting heads (optional)	
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)	

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Laser Blanking Lines
SF1503CH

▶ Load and cut sheet coils at high efficiency

Flagship edition

6 Competitive Strengths

- Address traditional problems
- Patented technology of high-precision error correction
- Automatic feeding system at high precision
- Rapid stress relief
- Precise, intelligent, efficient and save raw materials
- Flexible production in batch

Technical Parameters

Model	SF1503CH
Laser power	3000-6000W
Thickness of sheet coil	0.8-3.0mm
Max weight of sheet coil	≤15T
Width of sheet coil	800-1500mm
Loading device	Multi-split decoiler (optional)
Cutting device	Two/three/four cutting heads (optional)
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)

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Laser Blanking Lines
SF1503CH

▶ Load and cut sheet coils at high efficiency

Standard edition

6 Competitive Strengths

- Address traditional problems
- Patented technology of high-precision error correction
- Automatic feeding system at high precision
- Rapid stress relief
- Precise, intelligent, efficient and save raw materials
- Flexible production in batch

Technical Parameters

Model	SF1503CH
Laser power	3000-6000W
Thickness of sheet coil	0.8-3.0mm
Max weight of sheet coil	≤15T
Width of sheet coil	800-1500mm
Loading device	Multi-split decoiler (optional)
Cutting device	Two/three/four cutting heads (optional)
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)

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Laser Blanking Lines
SF1503CLH

▶ Cut without limit

Flagship edition

6 Competitive Strengths

- Special for non-ferrous metals
- Well designed and run stably
- Lightning-fast cutting with mirror-like surface
- Rapid stress relief
- Get CE/FDA certifications
- Flexible production in batch

Technical Parameters

Model	SF1503CLH
Laser power	3000-6000W
Thickness of sheet coil	0.6-3.0mm
Max weight of sheet coil	≤15T
Width of sheet coil	800-1500mm
Loading device	Multi-split decoiler (optional)
Cutting device	Two/three/four cutting heads (optional)
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)

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Laser Blanking Lines
SF1503CLH

▶ Cut without limit

Standard edition

6 Competitive Strengths

- Special for non-ferrous metals
- Rapid stress relief
- Well designed and run stably
- Get CE/FDA certifications
- Lightning-fast cutting with mirror-like surface
- Flexible production in batch

Technical Parameters

Model	SF1503CLH
Laser power	3000-6000W
Thickness of sheet coil	0.6-3.0mm
Max weight of sheet coil	≤15T
Width of sheet coil	800-1500mm
Loading device	Multi-split decoiler (optional)
Cutting device	Two/three/four cutting heads (optional)
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)

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Laser Blanking Lines
SF1803CLH

▶ Flexible production for higher quality and efficiency

Flagship edition

6 Competitive Strengths

- Address traditional problems
- Rapid stress relief
- Patented technology of high-precision error correction
- Precise, intelligent, efficient and save raw materials
- Automatic feeding system at high precision
- Flexible production in batch

Technical Parameters

Model	SF1803CLH
Laser power	3000-6000W
Thickness of sheet coil	0.6-3.0mm
Max weight of sheet coil	≤15T
Width of sheet coil	800-1800mm
Loading device	Multi-split decoiler (optional)
Cutting device	Two/three/four cutting heads (optional)
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)

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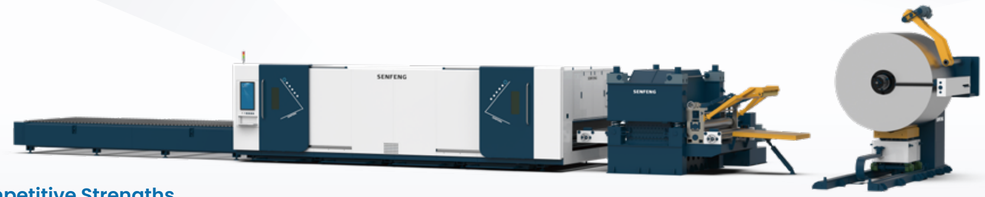
Laser Blanking Lines
SF1803CLH

▶ Flexible production for higher quality and efficiency

Standard edition



6 Competitive Strengths

- Address traditional problems
- Patented technology of high-precision error correction
- Automatic feeding system at high precision
- Rapid stress relief
- Precise, intelligent, efficient and save raw materials
- Flexible production in batch

Technical Parameters

Model	SF1803CLH
Laser power	3000-6000W
Thickness of sheet coil	0.6-3.0mm
Max weight of sheet coil	≤15T
Width of sheet coil	800-1800mm
Loading device	Multi-split decoiler (optional)
Cutting device	Two/three/four cutting heads (optional)
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)

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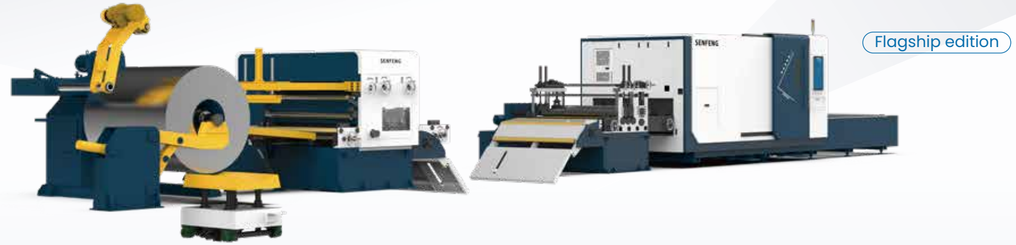
Laser Blanking Lines
SF2003CH

▶ Load and cut sheet coils at high efficiency

Flagship edition



6 Competitive Strengths

- Address traditional problems
- Patented technology of high-precision error correction
- Automatic feeding system at high precision
- Rapid stress relief
- Precise, intelligent, efficient and save raw materials
- Flexible production in batch

Technical Parameters

Model	SF2003CH
Laser power	3000-6000W
Thickness of sheet coil	0.8-3.0mm
Max weight of sheet coil	≤15T
Width of sheet coil	800-2000mm
Loading device	Multi-split decoiler (optional)
Cutting device	Two/three/four cutting heads (optional)
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)

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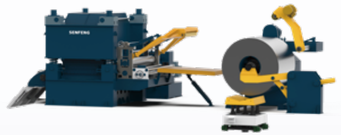
Laser Blanking Lines SF2003CLH

▶ Both flexible and high in quality and efficiency

Flagship edition



6 Competitive Strengths

- Address traditional problems
- Rapid stress relief
- Patented technology of high-precision error correction
- Precise, intelligent, efficient and save raw materials
- Automatic feeding system at high precision
- Flexible production in batch

Technical Parameters

Model	SF2003CLH
Laser power	3000-6000W
Thickness of sheet coil	0.6-3.0mm
Max weight of sheet coil	≤15T
Width of sheet coil	800-2000mm
Loading device	Multi-split decoiler (optional)
Cutting device	Two/three/four cutting heads (optional)
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)

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Laser Blanking Lines SF2016CH

▶ Reshape sheet coils by high laser energy

6 Competitive Strengths

- Address traditional problems
- Heavy-duty structure for stable running
- Advanced technology and well-designed structure
- Wide range of applications and easy to repair
- Cut sheet coils with mirror-like surface at medium-high power
- Flexible production in batch

Technical Parameters

Model	SF2016CH
Laser power	6000-80000W
Thickness of sheet coil	4-16mm
Max weight of sheet coil	≤30T
Width of sheet coil	800-2000mm
Loading device	Multi-split decoiler (optional)
Cutting device	Two/three/four cutting heads (optional)
Other functions	Filming/sticker/ink jetting/galvanometer marking (optional)

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Follow-up Laser Blanking Line SF1603P

High level of integration to enable automobile industry

Special solutions used for outside plates and interior trim panels of automobile

6 Competitive Strengths

- Automatic nesting for higher utilization rate of raw materials
- Cut into different shapes rapidly
- Multiple cutting heads available for efficiency gains
- Belt conveyer and hanging cutting at high quality
- Unique follow-up gap tracking device for better dust removal
- No investment in dies, short R&D cycle of new finished products

Technical Parameters

Model	SF1603P
Laser power	3000-6000W
Thickness of sheet coil	0.8-3.0mm
Max weight of sheet coil	≤15T
Width of sheet coil	600-1600mm

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Sheet Coil Blanking Automation

ALU Fully-automatic Laser Blanking Line

Man-machine interaction for high efficiency

It is a kind of automatic work mode that uses truss mechanical arm to grab and unload finished products automatically, which serves as a substitute of traditional manual sorting. Its unloading mechanical arm is featured by compact size, high work efficiency & transmission precision, wide range of applications, sound safety measures and efficient man-machine interaction.

4 Constituent Parts

- Automatic unloading device
- Feedstock trolley
- Laser blanking line
- Finished products trolley

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Electric Leveling Machine

By using electric motor to reduce or even relieve internal stress, the machine will make workpiece surface flat and smooth because the quality of finished products may be affected if the surface is uneven.

Technical Parameters

Model	SFE 60-600	SFE 60-1000
Workpiece thickness	1.0-10.0mm	1.0-10.0mm
Max leveling width	600mm	1000mm
Minimum length of workpiece	150mm	150mm
Leveling speed	1-12m/min	1-12m/min
Leveling roller quick change device	Standard	Standard
Numerical control adjustment	Standard	Standard
Machine size(L x W x H)	2500*2900*2350mm	2500*3300*2350mm
Machine weight	6200kg	7400kg
Roll number (per roll)	19	19

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Hydraulic Leveling Machine

It is designed to level workpieces by using rollers under the heavy pressure generated by hydraulic system. With large tonnage and high ability, this machine is ideally fit for leveling thick workpiece required by heavy machinery, shipbuilding and so on.

Technical Parameters

Model	SFH 160-1000	SFH 160-1300
Workpiece thickness	3.0-42.0mm	3.0-42.0mm
Max leveling width	1000mm	1300mm
Minimum length of workpiece	400mm	400mm
Leveling roller quick change device	Standard	Standard
Pressure adjustment	Hydraulic type	Hydraulic type
Servo hydraulicnormalclearance controlsystem	Standard	Standard
Overload protection	Standard	Standard
Operation panel	Multi-touch display	Multi-touch display
Machine size(L x W x H)	2500*4250*2600mm	2500*4550*2600mm
Machine weight	27200kg	30400kg
Roll number (per roll)	11	23

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Sheet Coil Blanking Automation

TOP
Flexible Metal Processing Line

Intelligent manufacturing to get ready for the future

It combines laser blanking line, flexible panel bender, automatic robot-assisted welding machine, transferring & stacking-up robots together in order to make its whole process fully automated, so that metal forming efficiency and precision are highly improved. A stand-alone machine develops into a complete production line while seeking for metal forming automation solutions. As for traditional manufacturing industry, green and sustainable development will be easy to achieve, contributing to the great progress of entire industry.

Laser blanking line

Decoil-level-cut-unload
Serialize the cutting of sheet coils

Flexible panel bender

High bending precision and consistency
among workpieces, tiny manual error

Robot-assisted laser welding machine

Flexible and efficient
to enable 360° welding at will

Transferring robot

Make its work fully automated

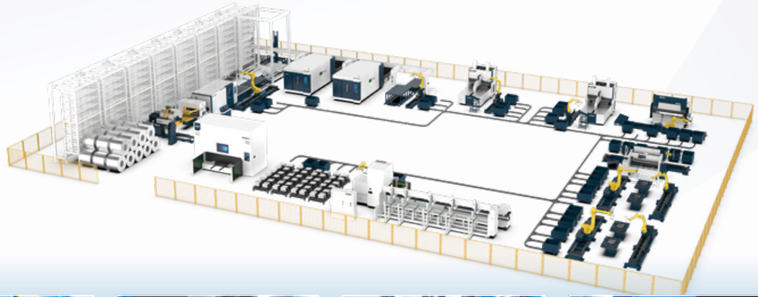
Sheet Coil Blanking Automation

Metal Forming Automation Workshop

Get ready for the future

It gives full consideration to laser blanking line, flexible panel bender, robot-assisted automatic welding machine, stereo pallet racks, handling & stacking robot, as well as AGV turnover trolley, achieving front to end automation. Both metal forming speed and precision are enhanced.

Shifting from standalone machine to the layout of entire workshop, we have realized metal forming automation solutions to drive traditional manufacturing industry towards green and sustainable development, then, make contributions to the whole industry.



Laser blanking line

Decoil-level-cut-unload
Serialize the cutting of sheet coils

Flexible panel bender

High bending precision and consistency
among workpieces, tiny manual error

Robot-assisted laser welding machine

Flexible and efficient
to enable 360° welding at will

Handling robot and AGV turnover trolley

Front to end automation
through communication collaboration

Stereo pallet racks

Sheet Coil Blanking Automation

Metal Forming Automation Workshop

Get ready for the future

It gives full consideration to laser blanking line, stereo pallet racks, flexible panel bender, robot-assisted automatic welding machine, tube laser cutting machine, handling & stacking robot, as well as AGV turnover trolley, achieving front to end automation. Both metal working & forming speed and precision are enhanced.

Shifting from standalone machine to the layout of entire workshop, we have realized metal manufacturing automation solutions to drive traditional manufacturing industry towards green and sustainable development, then, make contributions to the whole industry.

Laser blanking line

Decoil-level-cut-unload
Serialize the cutting of sheet coils

Flexible panel bender

High bending precision and consistency
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Robot-assisted laser welding machine

Flexible and efficient
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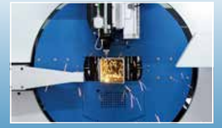
Handling robot and AGV turnover trolley

Front to end automation
through communication collaboration



tube laser cutting machine

Applicable Industries

Aerospace

Automobile parts

Chassis cabinet

Security door

Engineering machinery

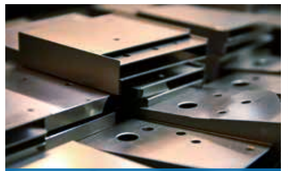
New energy

Kitchenware and sanitary wares

Decorative curtain wall

Office furniture

Medical instrument



Sheet metal working

AL product machining

After-sales Service

Quick-response Service

High Efficiency

Answer your repair calls for 24*7*365 days

Technical engineers can diagnose your machine within 10min, make repair plans within 1h and dispatch to your location within 1 workday after receiving your request for repair.

Craftsmanship Spirit

Provide custom-made solutions and make well-targeted plans as the case may be

Engineer certifications: Our all engineers take appointment with certificate after strict training

Train how to fix your FAQ: Collect FAQ and ask the certified engineers to train relevant customers

Online one-to-one guidance: Senior engineers guide customers to get problems solved through phone, video or other online means.

One time is enough: Commission the machine and settle similar matters only once

For Your Peace of Mind

Pre-arrival service: Train in technical theory, actual operation and troubleshooting at great length

Regular service: Reminder of maintenance, door-to-door and sales promotion service

Value-added service: Software & hardware upgrade, finance leasing and further extension of warranty period