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UAE Subsidiary
Add: Al Sajaa Industrial-Al Jlail-Sharjah-UAE

Pakistan Service Center
Add: Dullukhur metro station 26 Ferozpur road, Lahore

India Service Center
Add: Plot no 4/09, survey no-519, TSIIC, ip nadergul, hyderabad

Vietnam Service Center
Add: K13 Ngã 3 NgọcHồi Xã Ngũ Hiệp Huyện Thanh Trì Hà Nội

Jordan Service Center
Add: Amman-Sahab-Alazraq highway

Note: The pictures and parameters in the album are for reference only, and the actual product shall prevail. Printed in Jul. 2024

SENFENG

HOW TO SELECT YOUR 3D FIVE-AXIS LASER CUTTING MACHINES

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Provide Global Customers with Metal
Forming Automation Solutions

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About 3D Five-axis Laser Cutting

3D five-axis laser cutting machines are regarded as vital pillars of a great power and hi-end devices used to cut cold-pressed, hot-pressed and inwardly-pressed covering parts and pipe fittings as a substitute of traditional punching and trimming craft. Break with the tradition.

SENFENG has mastered key technologies and developed into a leading manufacturer in laser industry. In addition to technical supports and software upgrades in all aspects, we will also serve all customers with well-targeted solutions and make them hassle-free.

Thanks to high precision, efficiency and low costs, these machines help us to keep abreast of fashion trends after making traditional punching a thing of past.

Standard Machine

SF3015TD
3D Five-axis Laser Cutting Machine

▶ Lean Manufacturing to Enable Various Industries

Fully-enclosed Model

Semi-enclosed Model

4 Competitive Strengths

- Fast speed, high precision and stability
- User-friendly interaction between man and machine for easy work
- Collision-proof structure to keep work safe
- Mass production available

Technical Parameters

Stroke (X/Y/Z axis)	3000*1500*700mm
X/Y-axis positioning accuracy	±0.05mm
X/Y-axis repositioning accuracy	±0.01mm
Max no-load speed	100m/min
Max acceleration	1G
Rotating angle of A axis	±135°
Rotating angle of C axis	360°*N

* 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!

Standard Machine

SF4025TD
3D Five-axis Laser Cutting Machine

▶ Lean Manufacturing to Enable Various Industries

4 Competitive Strengths

- Wide range of application
  Allow for function extension
- Work stably at high efficiency
  Cut at high precision
- Cut various metals
  Special for complex curved 3D workpieces
- Easy to operate
  Free choice of core accessories

Technical Parameters

Stroke (X/Y/Z axis)	4000*2500*700mm
X/Y-axis positioning accuracy	±0.05mm
X/Y-axis repositioning accuracy	±0.03mm
Max no-load speed	80m/min
Max acceleration	0.8G
Rotating angle of A axis	±135°
Rotating angle of C axis	360° * N

* 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!

Multi-purpose Machine

SF3020MF
3D Five-axis Laser Cutting Machine

▶ Lean Manufacturing to Enable Various Industries

4 Competitive Strengths

- Wide range of application
  Allow for function extension
- Work stably at high efficiency
  Cut at high precision
- Cut various metals
  Special for complex curved 3D workpieces
- Easy to operate
  Free choice of core accessories

Technical Parameters

Stroke (X/Y/Z axis)	3000*2000*700mm
X/Y-axis positioning accuracy	0.05mm
X/Y-axis repositioning accuracy	0.03mm
Max no-load speed	60m/min
Max acceleration	0.6G
Rotating angle of A axis	±135°
Rotating angle of C axis	360° * N

*本页面所展示产品外观、性能描述、技术参数等均来自森峰技术研发中心对本公司自有产品的检测和实验，仅供参考，最终以实物为准。

Function Extension Machines

Multi-purpose 3D Five-axis Laser Cutting Machine Automation Solutions

▶ Further Extension as Needed for Intelligent Manufacturing

Large stamping parts automation solutions

- Mobile workbench is available when size of spare part is beyond working area of machine tool bed.
- The mobile workbench can keep its original precision and speed even when it interconnects with machine tool bed.
- The mobile workbench may be lengthened as needed.

Function Extension Machines

Multi-purpose 3D Five-axis Laser Cutting Machine Automation Solutions

▶ Further Extension as Needed for Intelligent Manufacturing

Efficient machining of inwardly-pressed parts and pipe fittings of complex shapes

- Positioner or robot may be optional according to features of inwardly-pressed parts and tubes of complex shapes when they are efficiently machined.
- Positioner: tooling customization, mass production available.
- Robot: flexible and change positions for several times at will.

Function Extension Machines

Multi-purpose 3D Five-axis Laser Cutting Machine Automation Solutions

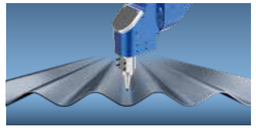
▶ Further Extension as Needed for Intelligent Manufacturing

This fully-automatic automation solutions can make unmanned factory come true

Core Technology

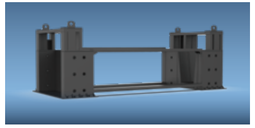
SENFENG 3D Five-axis Control System V1.0

- Software upgrades available



SENFENG 3D Five-axis Laser Cutting Head

- Laser beam of high quality, fast in cutting
- Collision-proof and much safer (self-reset)
- Autofocus and fast-response follow-up system



SENFENG 3D Five-axis Machine Tool

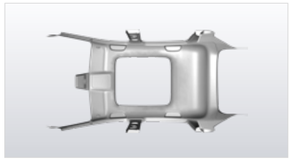
- Marble rack+frame (high in precision and stability)
- Module-based (more stable and easy to repair)

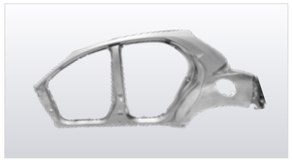
SENFENG 3D Five-axis Offline Programming Software

- Easy to operate, concise and intuitive, user-friendly interface

Application of 3D Five-axis Laser Cutting Machines

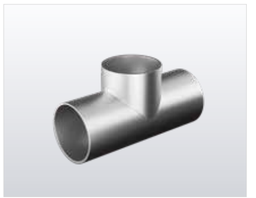
Cut hot-forming metal workpieces and covering parts





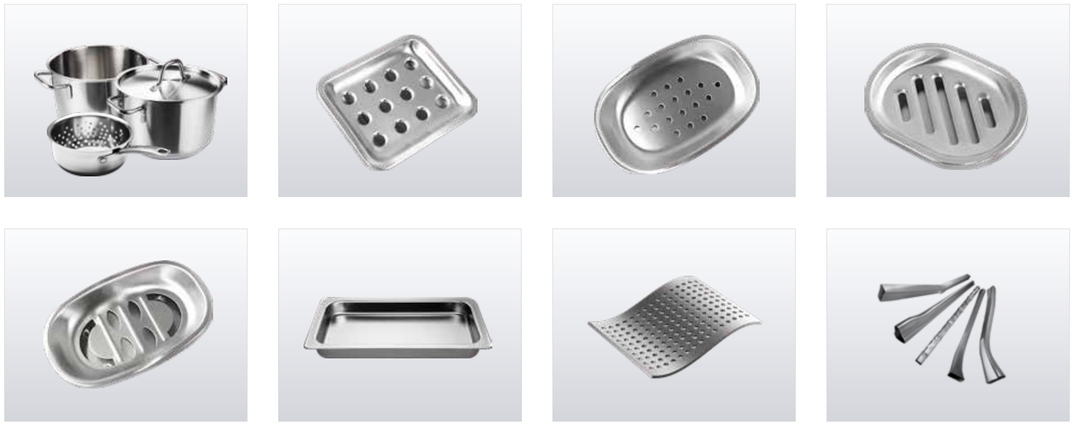
Application of 3D Five-axis Laser Cutting Machines

Cut pipe fittings



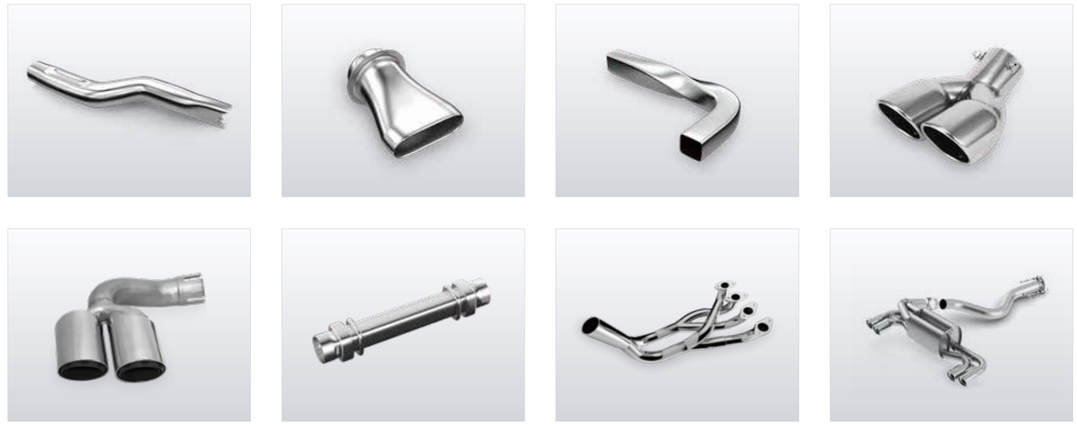
Application of 3D Five-axis Laser Cutting Machines

3D cutting of metalwork



Application of 3D Five-axis Laser Cutting Machines

3D cutting of inwardly-pressed parts



Applicable Industries

Aerospace

Auto parts

New energy vehicles

Building steel structure

Engineering machinery

PV and wind energy equipment

Medical instrument

Heavy trucks

Construction machinery

Large farm machines and tools

Mining machinery

Petrochemical equipment

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

Uphold the Spirit of Craftsmanship to

Make Our Future Smarter