

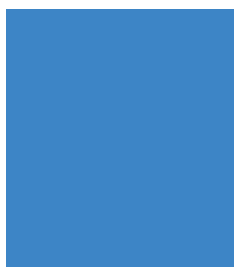
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SFR6063 Laser Cladding Robot Workstation

Enhancing metal surface for higher wear, corrosion & heat resistance

- Great cladding effect
- Excellent versatility
- High degree of automation and flexibility

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Robotic Laser Cladding Systems

What is robotic laser cladding systems?

The robot cladding machine is a large-scale laser remanufacturing equipment independently developed by senefng laser based on industrial six-axis robots. The equipment is mainly composed of six-axis industrial robot, rollover tooling, biaxial positioner, robot walking axis, workbench, laser, powder feeder, cladding and human-machine interface control system.

The robot cladding machine has complete functions, diverse performances and strong versatility. It can realize the cladding of shaft surface, curved surface and special-shaped parts. It is simple to operate and easy to maintain.

For more details or price of robot cladding machine, just send e-mail to us. 

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Technical Parameters of Robotic Laser Cladding Systems

Model	SFR6063
Power	4KW/6KW
Machine length	3m/6m/9m/12m
Max rotation diameter	1200mm/1500mm
Max capacity	3t/10t /15t
Robot	FANUC M-10iD/M-20iD
Biaxial positioner	Swing 120-degree;rotate 360-degree
Cladding thickness	0.1-1.5mm
Cladding layer characteristics	restoration/wear-resisting/corrosion-resisting and so on

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Advantage of Robot Laser Cladding Machine



Strong Versatility

- The robot cladding workstation is not only suitable for laser cladding processing of simple surfaces such as shafts and planes, but also for processing complex surfaces such as balls and curved surfaces.



High Precision and Stability

- The powder feeder uses servo motors instead of stepping motors, mass flow meters instead of float flow meters, and CNC processing powder discs. Therefore, the conveying accuracy and stability of the cladding machine is much higher than that of the same type of products.

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High Degree of Automation

- The whole processing process adopts computer control. The function of robot is highly integrated and the application system can be switched directly.

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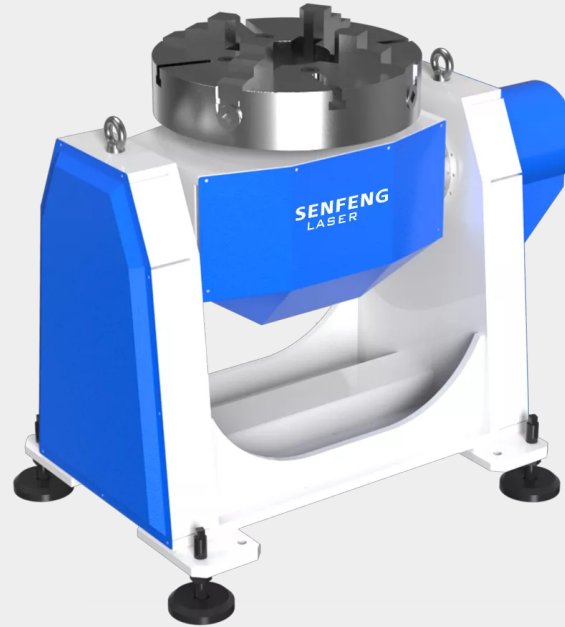
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Dual-Axis Servo Positioner

The dual-axis servo positioner is independently designed by senfeng, which can realize the efficient cladding of complex curved surfaces and parts.

Its variable position angle is $\leq \pm 120^\circ$

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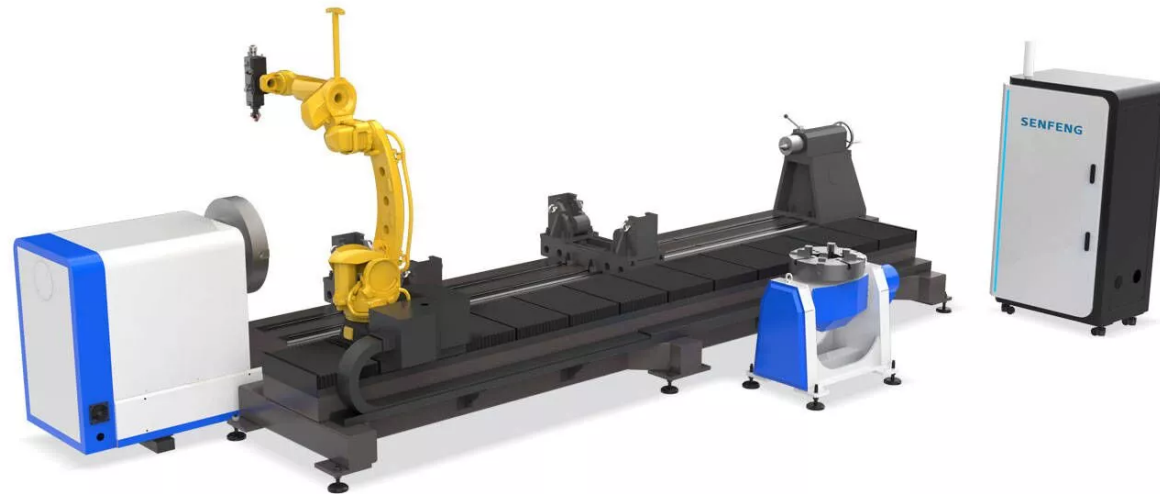


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Horizontal Rotary Table

The horizontal rotary table can complete the high-speed cladding of shaft parts, which is mainly composed of bed platform, headstock, tailstock thimble, etc.
The bed platform and headstock are made of high-strength cast iron, which has high rigidity and shock absorption.

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Application of Robot Laser Cladding Machine

The robot cladding workstation is mainly suitable for surface modification of materials, surface repair of products and prototype manufacturing.

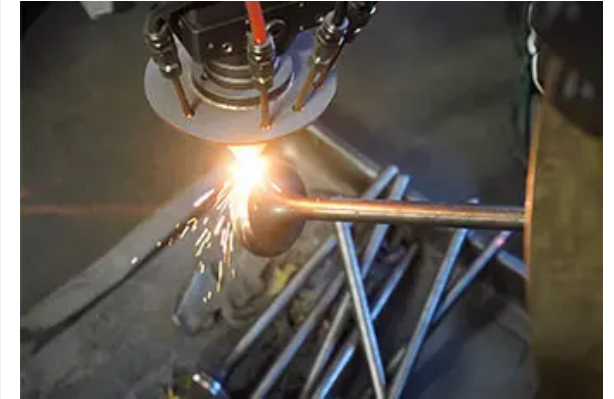
It is widely used in coal, metallurgy, offshore platform, papermaking, domestic household appliances, automobile, ship, petroleum and other industries.

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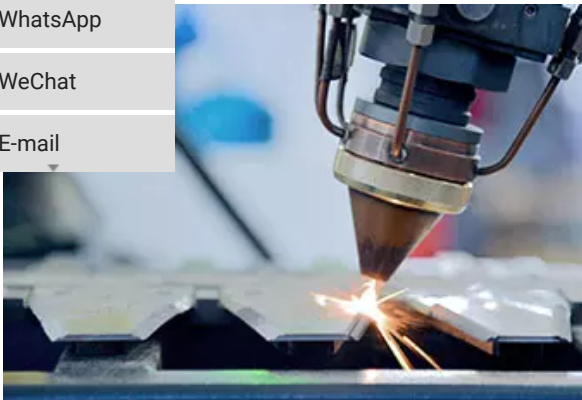
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