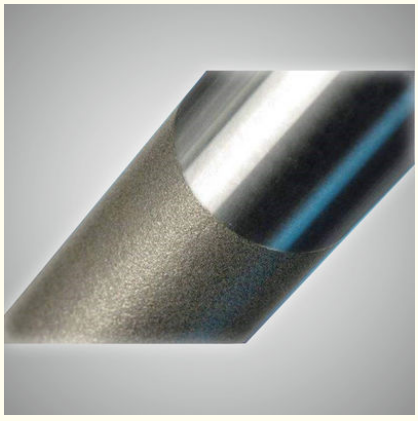
Flexible Robotic Laser Cladding System 2000W~8000W High Performance

Our Product Introduction

Basic Information

Product Specification

- Applicable Laser: Semiconductor, Fiber Optic
- Laser Power: 2000W~8000W
- Rotation Accuracy: 15'
- Robot Accuracy: ±0.05mm
- Robot Working Radius: 2000mm
- Maximum Working Length: 2000mm
- Maximum Working Diameter: 400mm
- Maximum Working Weight: 2T
- Highlight: **Flexible Robotic Laser Cladding System**, **Laser Cladding System 2000W**, **8000W laser cladding machine**



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Our Product Introduction

Product Description

Flexible Robotic Laser Cladding System

Laser cladding is a new type of surface modification technology that uses laser to heat the surface of the cladding material and the substrate, so that the required special materials are welded to the surface of the workpiece. Compared with the commonly used cladding and plasma spraying (coating) technologies, laser cladding technology has a series of outstanding features.

The cladding layer organisation is fine and dense, the hardness of the cladding layer is higher, corrosion resistance, wear resistance is better; cladding layer and the substrate for the metallurgical bond; the dilution rate of the cladding layer is low (only 5%~8%, can be used to achieve the desired performance requirements of the thin cladding layer: high power density of the laser beam, the heating temperature is high, the choice of the melting material is wider range of heat-affected zone is small, less deformation of the workpiece; cladding layer is stable in quality, and it is easy to achieve automated production. Can complete the laser additive and repair of shaft parts, plane parts, etc., widely used in hardware, mining, steel, aerospace and even civil new products and other industrial fields.

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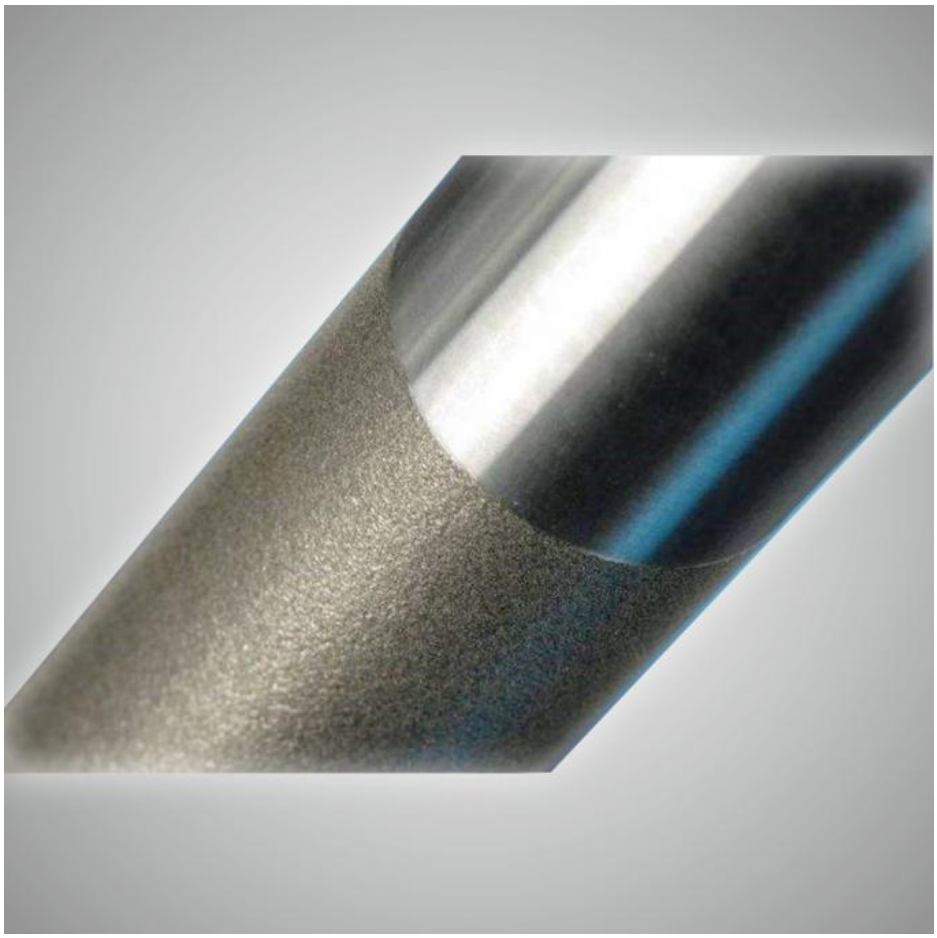

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