

Fiber optic head sensor controls the cutting machine

Smart sensors integrated into the cutting head continuously monitor the status of critical components or cutting process parameters. Clear status signals and error messages are provided for further handling.

The FK-4020 fiber laser machine cutting torch head sensor is an advanced capacitive or contact-based detection unit embedded in the cutting torch assembly of FK-4020 fiber laser systems.

When the shape of the laser cutting head changes and the surface is uneven, the sensor automatically detects the change and automatically adjusts the height according to the change, so ...

From the fiber laser generator that powers the system to the intricate laser cutting head, control mechanisms, and robust structural frame, each element plays a crucial role. So, what are ...

This system includes sensors that automatically adjust the height of the cutting head relative to the workpiece, ensuring that the laser remains focused throughout the cutting process.

It controls how the laser beam, assist gas, focus position, and nozzle height work together. If the cutting head is not suitable for your machine or application, you may see poor edge ...

These details affect how reliably the machine holds focus, manages heat, and adapts during cutting. In this article, we'll break down the key components of a fiber laser cutting head and ...

Learn about the functions and features of each component, such as the laser source, optical path system, and control system. This knowledge will help you precisely select the right laser ...

Its fully integrated sensor system monitors the cutting process and provides the user with relevant information via machine controls, head-mounted LEDs, and a Bluetooth® system that ...

It integrates all machine commands and settings, ensuring that the cutter performs as expected for different materials and designs. This component includes the software that interprets ...

Smart sensors integrated into the cutting head continuously monitor the status of critical components or cutting process parameters. Clear ...

The cutting head is the laser output device of a fiber laser cutting machine, consisting of a nozzle, a focusing lens, and a focus tracking system. The cutting head drive device, which consists ...

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