Sintec Optronics
专做激光配件

Laser Expert in Singapore

Recently held MTA the Precision Engineering Industry Event 2011 Singapore Exhibition.

To all our visitors we would like to express our heartfelt thanks to you for visiting our booth at Singapore Expo.

We are looking forward to do business with you and with your company.

☞ Diode End-pumped Lasers

Diode End-pumped lasers adopt full sealed-off design with small volume and low power consumption as well as fiber-coupled pumping, which is easily for the integration of system and equipment. The modularized design provides the convenience for changing by customers. The laser beam is TEMoo with high beam quality, high peak power and short pulse width. Excellent resonator design can keep average laser power and pulsed peak power stable & constant.

FEATURES

- Diode pumped air cooling technology - low power consumption
- Unique split type design
- Good beam quality. It is TEM00 with $M^2 \leq 1.2$. It can be used to mark fine lines, suitable for high precision marking applications.

☞ Nd:YAG Laser Cutting Machine

Main Features

Gantry structure

1) Gantry framework: Welded with metal plates. It is heavy and resistant to deformation with high precision.

2) Laser head moves within various cutting field and the focused beam diameters are same at any locations and thus the cutting edge is also same at any locations.

Convenient to align the optical route and replace lamp & rod

Just move the laser head to the edge of the table. The operator can stand by the side of the table tomake adjustment, repair & replacement.

Unique laser cutting head

The focused beam is always kept at the focus since a self-floating laser cutting head is used. The distance between the cutting nozzle and metal surface is automatically kept unchanged whether the surface is flat, curvature or rough.

Advantages

High precision & high stability

It combines precision ball screw and optimized CNC system, thus meeting the need of precision processing. Dynamic performance is stable and sustainable even for long time.

Cutting is smooth & continuous

Step motor is used to move the cutting nozzle to keep the focus point unchanged during cutting, which meets the requirement for cutting flat or curved sheet metal.

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☞ High-power Nd:YAG Self-floating Laser Cutting Head

Laser cutting head is one of most important parts of laser cutting machines. The traditional cutting head only includes focusing lens and nozzle and does not have auto-focus function. If there is no auto-focus, the spacing between the focus lens and workpiece will not be same, which results in different focused beam diameters and then different power densities at different positions.

Technical specifications:

- Power supply: AC220V ± 10%, 50Hz/60Hz
- Motor: High-performance step motor
- Operation temperature: controller -10 - 60 ℃ sensor: -10 - 250 ℃
- Accuracy of height adjustment: ±0.1mm
- Maximum travel range: 120mm

☞ High Energy Pulsed Fiber Laser

STM10 and STM20 series of laser products are rugged compact pulsed fiber lasers intended for integration into industrial equipment. These lasers offer 10W or 20W average power which is delivered via a flexible output fiber and collimating optics. These high peak power pulses are suitable for applications such as marking, engraving, micromachining, and surface treatments.

Pulse repetition rate and output power can be controlled either by 8-bits TTL signal or USB, providing the user both fast communication and userfriendly interfaces at the same time.

Sintec Optronics Pte Ltd is a leading supplier and manufacturer of a wide range of photonics products such as lasers, laser parts and relevant accessories. We are dedicated to continuously evolving our knowledge and experience in order to deliver innovative products and expertise that advance our customer's technologies at affordable prices.

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