Product Information

Product Description:

CARMAN HAAS Laser Technology (Suzhou) Co., Ltd established in February 2016, is a national high-tech enterprise integrating research and development, production, inspection, application testing and sales of laser optical components and optical systems. The company has a professional and experienced laser optics R&D and technical team with practical industrial laser application experience. It is one of the few professional manufacturers at home and abroad that have vertical integration from laser optical components to laser optical systems. The company actively deploys independently developed laser optical systems (including laser welding systems and laser cleaning systems) in the field of new energy vehicles, mainly focusing on laser applications of power batteries, flat wire motors and IGBT.

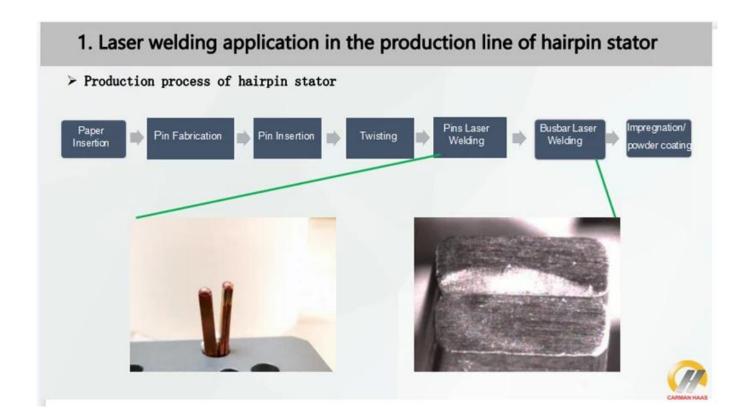
Galvo Scan Head Welding Supplier China Technical Parameter:

1.Wavelength: 1030-1090nm 2.Laser Power: 6000W/8000W

3.Laser Source: IPG or Carmanhaas Customized

4.Core Diameter: 50μm/100μm

5. Application: Copper Hairpin Welding



2. Laser Solution of hairpin stator welding

Laser System Specifications:

Option: 1

Laser: IPG/Customized 6kW Multimode laser

Galvo: Model: CHS 30 Laser Core Diameter: 50µm



Option: 2

Laser: IPG/Customized 8kW Ring laser

Galvo: Model: CHS 30

Laser Core Diameter: 50/150µm

- Working Area:180*180mm;
- · Single shot range 2 slots;
- Welding immediately after taking pictures, no servo motion mechanism, low production cycle

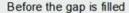


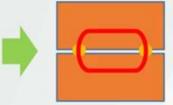
3. Intelligent application of laser welding vision for hairpin stator

> Intelligent trajectory of laser vision

- With a variety of visual tools, flexible solutions, easy to customize, you can grab points, lines, circles, ellipses and their complex graphics;
- For pins with a slightly larger fit gap, you can visually skip the gap, and then continue welding after the gap is fused.







After the gap is filled





4. Difficulties and solutions for laser welding of hairpin stator

> Laser welding spatter

Plasma cloud suppression (Ring Air Knife)









5. Excellent welding quality

> The flow area of the welding is more than 1.5 times that of the base material



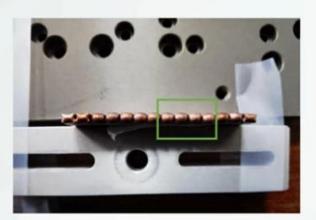




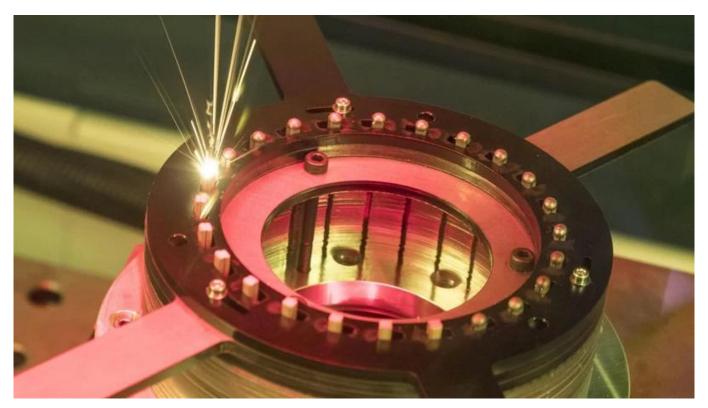
12.23mm² 15.21mm² 12.35mm²

> Appearance of welding with different defocus

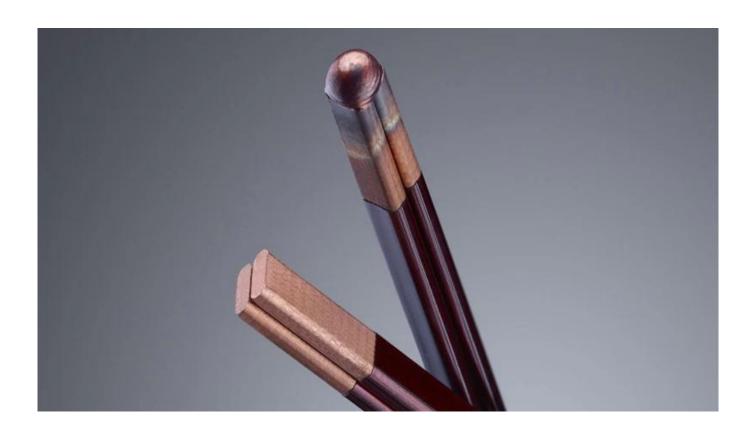


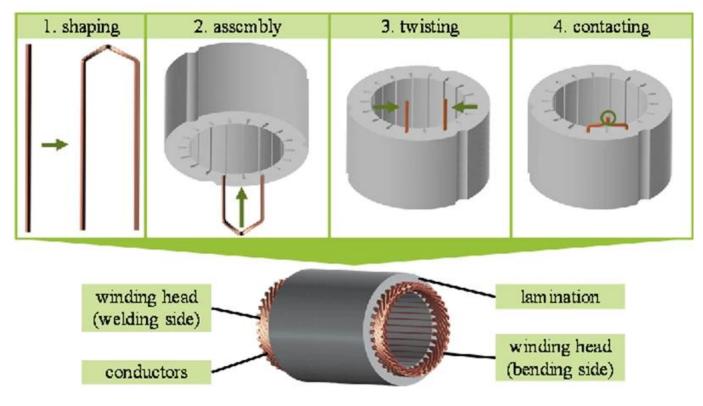












Our Service

□Pre-sale service

(1)Free sample marking

For free sample testing, please send us your file, we will do marking here and make video to show you the effect,or send sample to you for checking quality.

(2)Customized machine design

According to customer's application, we may revise our machine accordingly for customer's convenience and high production efficiency.

☐ After-sale Service

(1)Installation:

After the machine reach the buyer's site, the engineers from the seller are responsible for machine installation and commissioning by using the special tools under the help of the buyer. Buyer should pay for our engineer visa fee, air tickets, accommodation, meals etc.

(2)Training:

In order to provide training in safe operation, programming and maintenance, Machine Supplier shall provide qualified instructors after Buyer finally installs the equipment.

- 1. Mechanical maintenance training
- 2.Gas / electronic maintenance training
- 3. Optical maintenance training
- 4. Programming training
- 5.Advanced operation training
- 6.Laser safety training

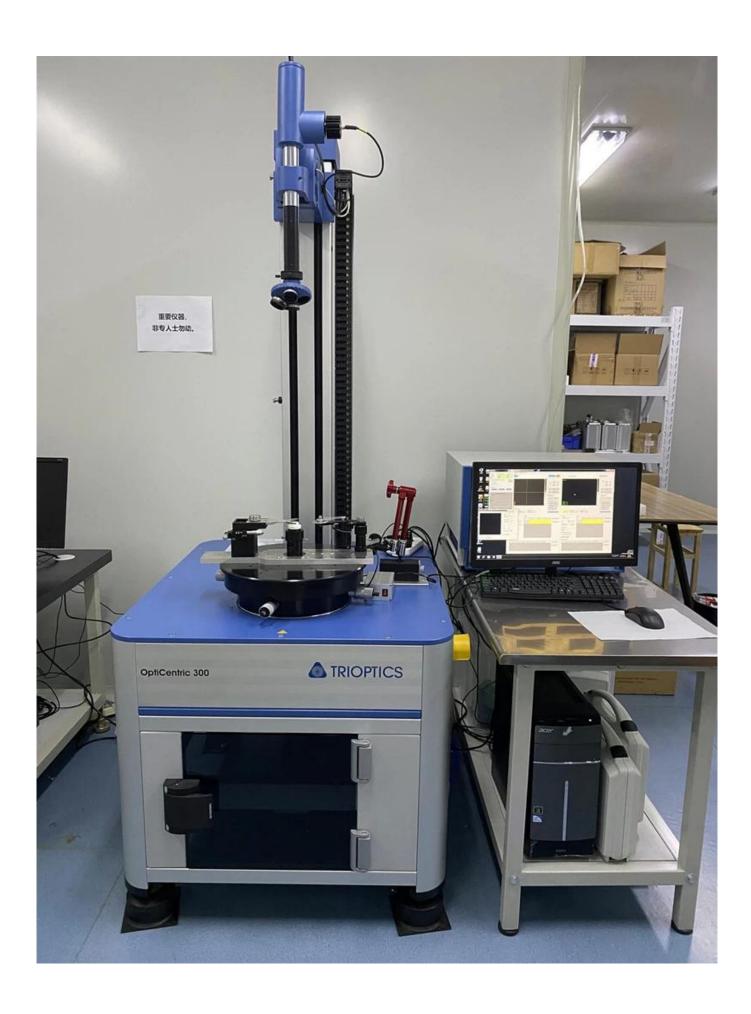
Click to learn more: China Laser Welding Wholesales Factory

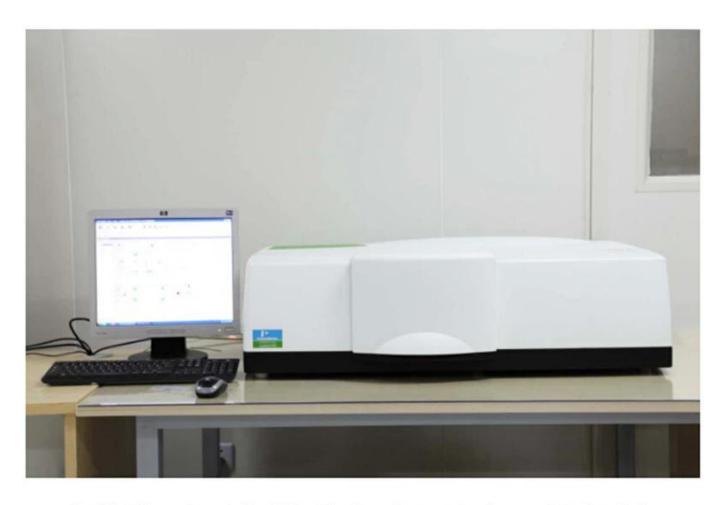
Factory











PerkinElmer Lambda 950---Testing Transmission and Reflectivity



Certificate&Exhibition

CERTIFICA

ATTESTATION CERTIFICATE OF MACHINERY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has be completed successfully, 2006/42/EC Machinery Directive and 2014/ 35/EU Low Voltage Directive have been taken as references for these proces

: No 155, West Road Suhong, Suzhou Industrial Park, Suzhou City, Company Address Jiangsu , P.R.China

Related Directives and Annex : Low Voltage Directive 2014/35/EU Machinery Directive 2006/42/EC

Related Standards : EN BO 12100:2010; EN 60204-1:2006+A1:2009+AC:2010

Report No and Date : SD-90049717;09.08.2018

Product Brand/Model/Type : LMCH-3W,LMCH-5W,LMCH-10W,LMCH-15W,LMCH-20W,LMCH-25W,

LMCH-30W,LMCH-50W,LMCH-60W,LMCH-70W,LMCH-100W, LMCH-120W,LMCH-150W,LMCH-200W,LMCH-300W,LMCH-500W

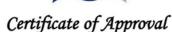
Certificate Number Initial Assessment Date : M.2018.201.N6073 : 10.08.2018 UDEA International C Registration Date : 13.08.2018

Reissue Date/No and Trade Inc. Co

Address: Mutakent Mahallesi 2073 Sokak (Ekki 93 Sokak) No:10 Çankaya – Ankara – TURKEY Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76 E-mak kin0-udenith.com.tr. www.udem.com.tr.



UDEM



Certificate No.: 10119Q12565ROM

Awarded to

Carman Haas Laser Technology(SuZhou) Co., Ltd.

Beijing ZhongLianTianRun Certification Center (ZLTR) certify that the Quality Management System of the above organization has been assessed and found to be in accordance with the requirements of the standard:

GB/T19001-2016 / ISO9001:2015

SCOPE OF CERTIFICATION/REGISTRATION The Research and Development and Production of Optics Lenses (Except the limits of national laws and regulations.)

This certificate is made valid when used with certification scopes and the requirements of applicable laws and regulations. These requirements include, but are not limited to, administrative permits, scopes of qualifications, and CCC requirements.

Subject to operation conditions in requirements conformity with Quality Management System,
This Certificate is valid for a period of three years only,
Date from: Mar 13th,2019 To: Mar 12th,2022

The effectiveness of this Certificate shall be Validated by periodic surveillance audit of ZLTR for maintenance.

Information of this certificate space he local on the official website of Beijing Zhonglian Tianrun Certificates of the found on the Chical website of Beijing Zhonglian Tianrun Certificates on the other of here's west in connect)



ISO 9001





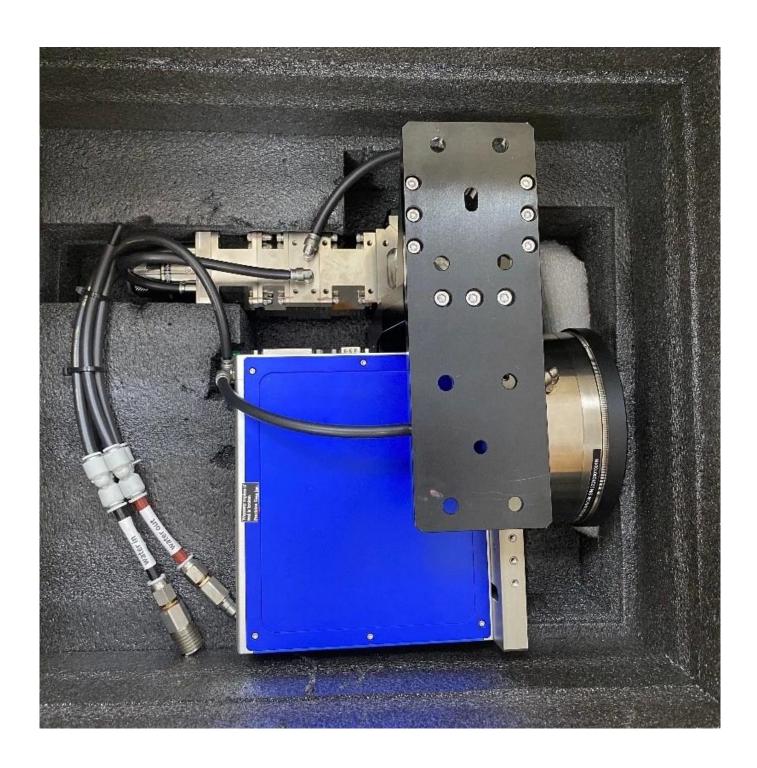
Beijing Zhongliantianrun Certification Center





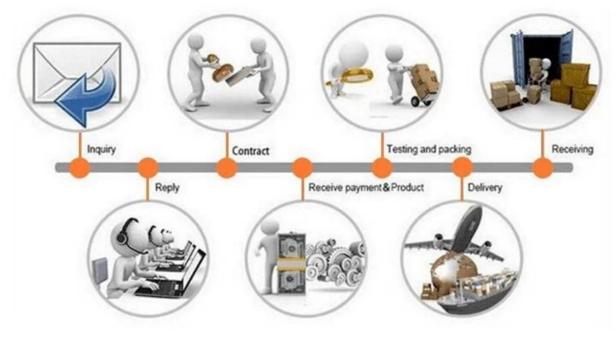


Packing List











Return Policy:

We provide a free ONE YEAR Full Machine WARRANTY and TWO YEARS Laser Source WARRANTY

Should returns be required:

- Step 1) Contact us with this website email.
- Step 2) Provide as much detail as possible about the problem you are having.
- Step 3) Authorization to return the item will be issued.
- Step 4) Return the item for the agreed replacement or refund.

Logistics:

Optics order ship by DHL, UPS, FedEx, TNT, EMS etc

For Laser Machine order delivery, can be optional with terms of EXW, FOB, CNF, CIF by Express, Air Freight or Sea Freight based on the buyer's forwarder or ours.

FAQ

Q1.Are you a manufacturer?

A1: Yes, we are professional and experienced manufacturer with our own molds and production lines.

Q2. How about quality of products?

A2: Our technicians and QC teams test the products one by one using aging line, professional devices and instruments to ensure the quality for all products.

Q3. How about price?

A3: We are a manufacturer and always offer our customers the most competitive prices.

Q4. How to place an order?

A4: Contact with online service, or sent email to us directly, we will reply to you with product price, specifications, packing etc. soon. Thank you.

Q5.May I send material to test marking performance?

A5: Yes! You are welcome to send material to test our superior quality and service.

Q6.Can I visit your factory?

A6: Yes, welcome to visit our factory at your convenient time.

O7.How can I make OEM or ODM orders?

A7: We have different print processing for different OEM/ODM orders. Please contact us with online service or send email to us directly.

Q8. How should I pay for my orders?

A8: You can pay by T/T would be available for qualified bank and MOQ required for each order.