

# Product Information

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## Product Description:

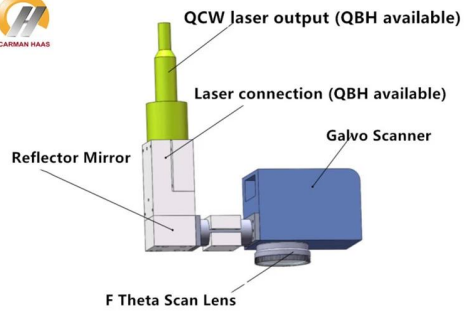
Lasers can provide high-speed cleaning and surface preparation in virtually all industries. The low-maintenance, easily automated process can be used to remove oil and grease, strip paint or coatings, or modify surface texture, for example adding roughness to increase adhesion.

[China Laser cleaning equipment on sales supplier](#) Carmanhaas offer professional laser cleaning system. Commonly used optical solutions: the laser beam scans the working surface through the galvanometer system and the scan lens to clean the entire working surface. Widely used in metal surface cleaning, special energy laser sources can also be applied to non-metallic surface cleaning.

Carmanhaas [Laser spare parts China manufacturer](#) Optical components mainly include QBH collimation module, galvanometer system and F-THETA scan lens. QBH collimation module converts the diverging laser beam into a parallel beam (reducing the divergence angle), galvanometer system realizes beam deflection and scanning, and F-Theta scan lens achieves uniform beam scanning focus.

## Advantage:

- 1.No abrasive materials are used, with no problems of contaminant separation and disposal;
- 2.No solvents are used - chemical-free and environmentally friendly process;
- 3.Spatially selective - cleaning only the area required, saving time and costs by ignoring regions that don't matter;
- 4.Non-contact process never degrades in quality;
- 5.Easily automated process that can lower operating costs by eliminating labor while giving greater consistency in results.



## Technical Parameters:

### 1030nm - 1090nm F-Theta Lens

Part Description	Focal Length (mm)	Scan Field (mm)	Max Entrance Pupil (mm)	Working Distance(mm)	Mounting Thread
SL-(1030-1090)-100-170-M39*1	170	100x100	8	175	M39x1
SL-(1030-1090)-140-335-M39*1	335	140x140	10	370	M39x1
SL-(1030-1090)-110-340-M39*1	340	110x110	10	386	M39x1
SL-(1030-1090)-100-160-SCR	160	100x100	8	185	SCR
SL-(1030-1090)-140-210-SCR	210	140x140	10	240	SCR
SL-(1030-1090)-175-254-SCR	254	175x175	16	284	SCR
SL-(1030-1090)-112-160	160	112x112	10	195	M85x1
SL-(1030-1090)-105-170-(15CA)	170	105x105	15	215	M85x1
SL-(1030-1090)-150-210-(15CA)	210	150x150	15	269	M85x1
SL-(1030-1090)-175-254-(15CA)	254	175x175	15	317	M85x1
SL-(1030-1090)-180-340-(30CA)-M102*1-WC	340	180x180	30	417	M102x1
SL-(1030-1090)-180-400-(30CA)-M102*1-WC	400	180x180	30	491	M102x1
SL-(1030-1090)-250-500-(30CA)-M112*1-WC	500	250x250	30	607	M102x1

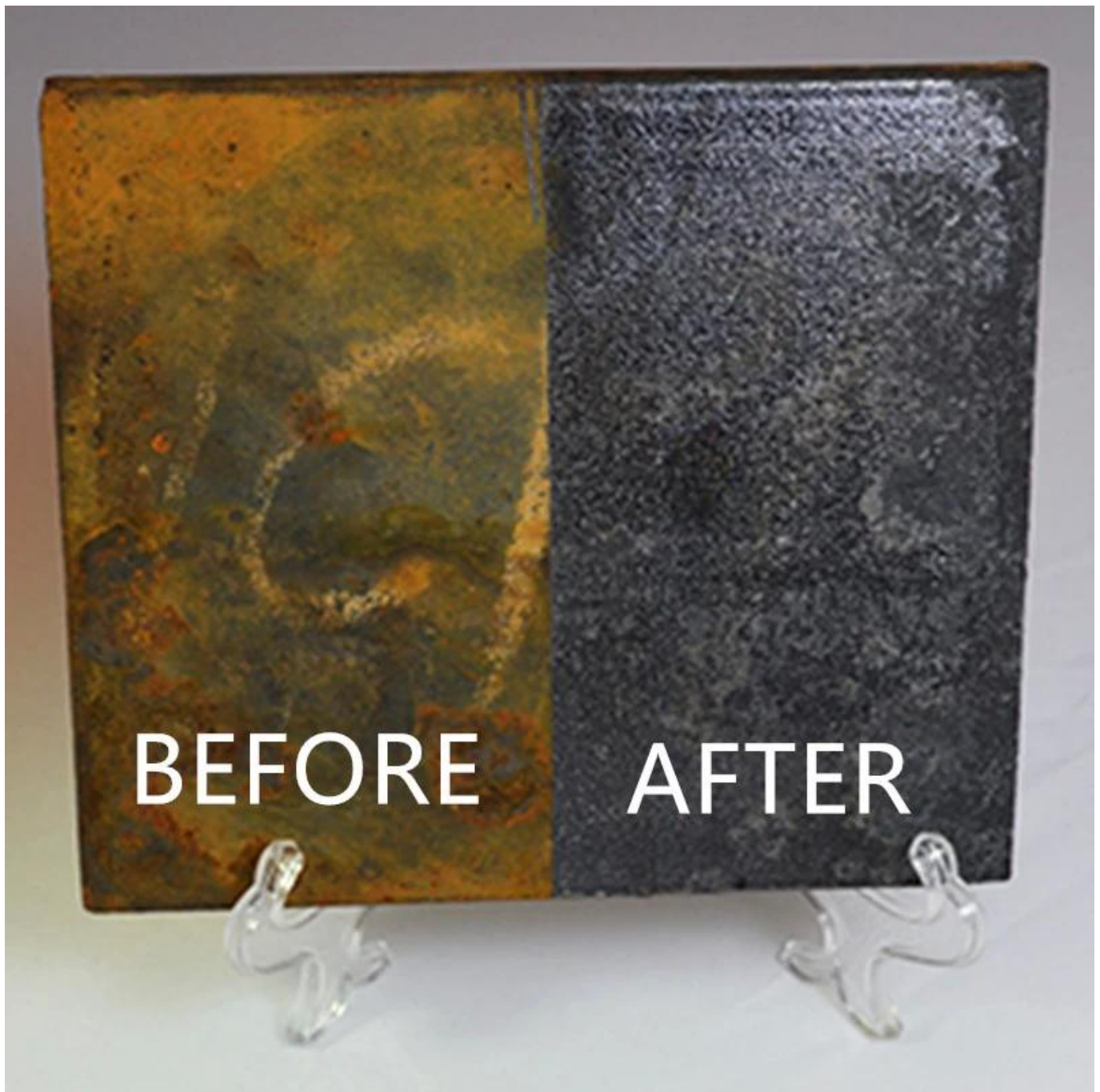
**Note: \*WC means Scan Lens with water-cooling system**

### QBH collimating optical module□1030nm - 1090nm□

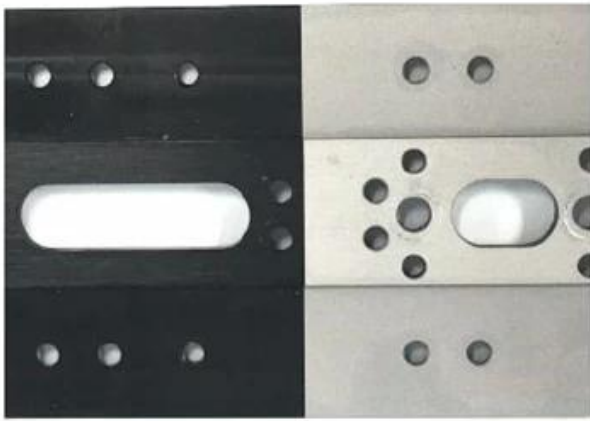
Part Description	Focal Length (mm)	Clear Aperture (mm)	NA	Coating
CL2-(1030-1090)-30-F60-QBH-A-WC	60	28	0.22	AR/AR@1030-1090nm
CL2-(1030-1090)-30-F75-QBH-A-WC	75	28	0.17	AR/AR@1030-1090nm
CL2-(1030-1090)-30-F100-QBH-A-WC	100	28	0.13	AR/AR@1030-1090nm
CL2-(1030-1090)-30-F125-QBH-A-WC	125	28	0.1	AR/AR@1030-1090nm
CL2-(1030-1090)-30-F150-QBH-A-WC	150	28	0.09	AR/AR@1030-1090nm
CL2-(1030-1090)-38-F75-QBH-A-WC	75	34	0.22	AR/AR@1030-1090nm
CL2-(1030-1090)-38-F100-QBH-A-WC	100	34	0.16	AR/AR@1030-1090nm
CL2-(1030-1090)-38-F125-QBH-A-WC	125	34	0.13	AR/AR@1030-1090nm
CL2-(1030-1090)-38-F135-QBH-A-WC	135	34	0.12	AR/AR@1030-1090nm
CL2-(1030-1090)-38-F150-QBH-A-WC	150	34	0.11	AR/AR@1030-1090nm
CL2-(1030-1090)-38-F200-QBH-A-WC	200	34	0.08	AR/AR@1030-1090nm

## Why are more manufacturers using laser cleaning for material preparation?

Laser cleaning offers multiple advantages over traditional approaches. It does not involve solvents and there is no abrasive material to be handled and disposed of. Compared with other processes that are less detailed, and frequently manual processes, laser cleaning is controllable and can be applied only to specific areas of a part, can be easily automated to maximize productivity, and provides the guaranteed repeatability demanded by an increasing number of quality standards.







BEFORE

AFTER



BEFORE

AFTER



BEFORE

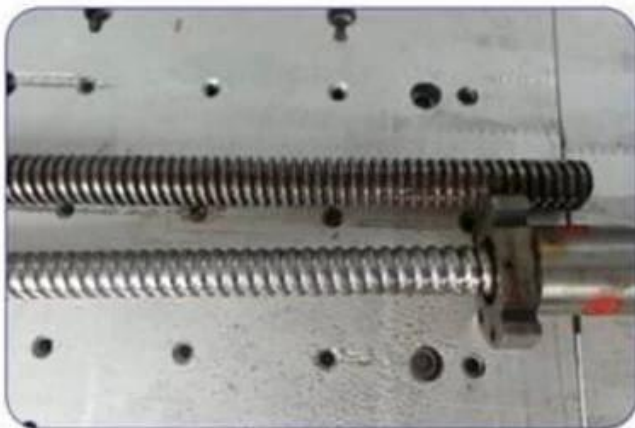
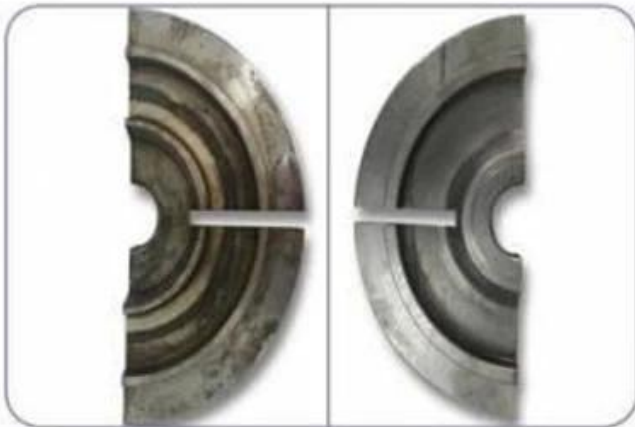


AFTER



BEFORE

AFTER



# Factory









重要仪器,  
非专业人士勿动。

OptiCentric 300

TRIOPTICS







PerkinElmer Lambda 950---Testing Transmission and Reflectivity



# Certificate&Exhibition

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# CERTIFICATE

## ATTESTATION CERTIFICATE OF MACHINERY AND LOW VOLTAGE DIRECTIVES

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

Company Name : **Camman HAAS Laser Technology (Suzhou) Co., Ltd.**

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

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

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

Product Name : **Laser Marking Machine**

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 : **M.2018.201.N6073**

Initial Assessment Date : 10.08.2018

Registration Date : 13.08.2018

Reissue Date/No :

Expiry Date : **12.08.2023**

*U. Saygılı*  
UDEM International Certification  
Auditing Training Centre Industry  
and Trade Inc. Co.

The validity of the certificate can be checked through [www.udem.com.tr](http://www.udem.com.tr). The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above named firm must keep a copy of this certificate for 15 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be noticed in case of any changes on the product(s)  
Address: Mulkikent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya - Ankara - TÜRKİYE  
Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 70  
E-mail: info@udemtd.com.tr www.udem.com.tr



## Certificate of Approval

Certificate No.: 10119Q12565ROM

Awarded to

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

Organization Code Certificate No. / Unified Social Credit Code:91320594MA1MF4EP56  
Add.:No.155, West Road Suhong, Suzhou Industrial Park, Suzhou City, Jiangsu Province, P.R. China. 215000

Beijing ZhongLian TianRun 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 can be found on the official website of Beijing Zhonglian Tianrun  
Certification center (<http://www.zltr.com.cn>)



Beijing Zhongliantianrun Certification Center

Room2603, 22nd Floor, 2nd Unit, Block 1, No.4 Yard, Qiyang Road, Chaoyang District, Beijing, P.R. China 100102

Information of this certificate can be found on the official website of Certification and Accreditation Administration of the People's Republic of China (<http://www.cnca.gov.cn>)

ISO 9001

ISO 9001





## Packing List

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**Return Policy:**

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:**

(1)For Laser Optics order delivery,can be optional with DHL,UPS,FedEx,TNT,EMS,ets

(2)For Laser machine order delivery,can be optional with terms of EXWork FOB,CNF,CIF By Air or by Sea based on the buyer's forwarders or ours.

## FAQ

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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.

Q7.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.