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Carmanhaas (0000-00 00 00 00 00 00) 00 0000 00 QBH 000000 00, 00 0 00 0000 0 F-Theta 00 0000 000000. QBH Collimation Module 00 0000 00 00 0 (00 00 00)00 00000, 00 0 00 00000 0 00 0 00000 00000 F-Theta 00 0000 00 0 0000 0000 000000.

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1. 00 00 00 0 0000 000000 No 000000 000000 000000.
2. 00 0000 00 0 00 0000 0 0000 000000.
3. 00 0000 0000 - 000000 00 0000 000000000 0000 00 0 00, 00 0 00 00;
4. NON 00 0000 0000 000000 000000.
5. 00000 0 0 00000 0000000 000000 000000000 00 0000 0000 00 0000 0 000000.



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**1030nm - 1090nm f-theta □□**

| 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          |

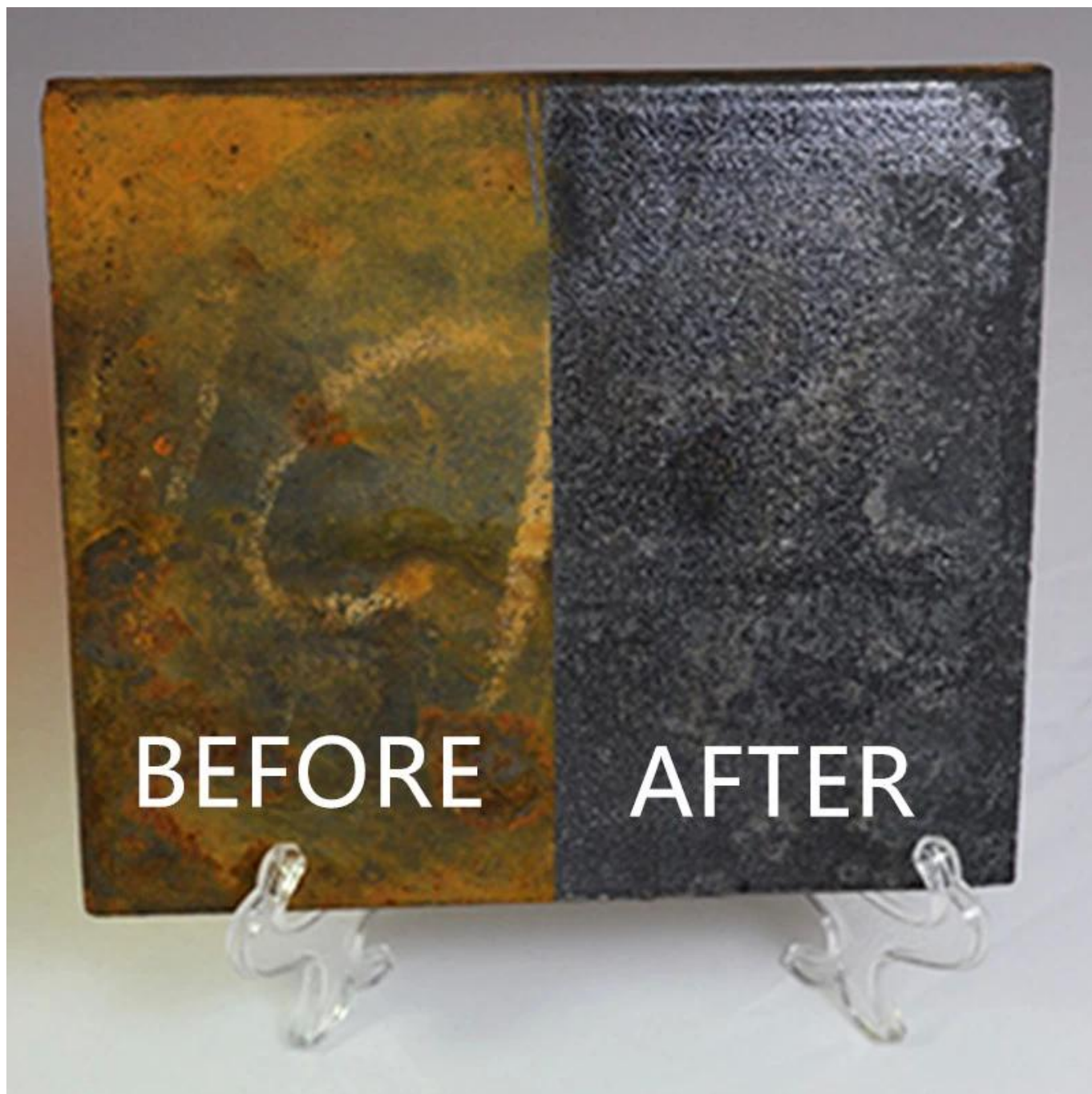
□□ : \* WC □□ □□□□□□ □□ □□□ □□□□□.

**QBH Collimating □ □□ (1030nm - 1090nm)**

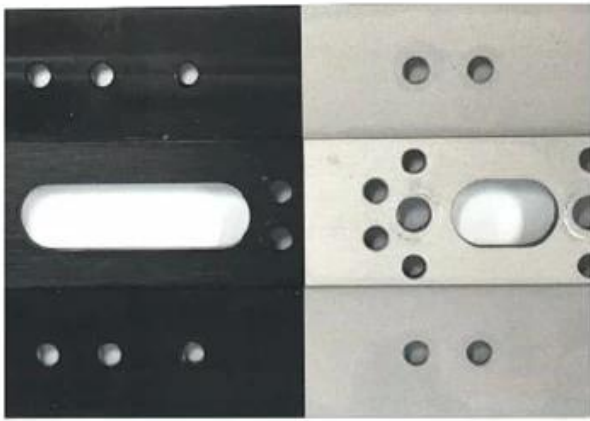
| Part Description                 | Focal Length (mm) | Clear Aperture (mm) | NA   | Coating           |
|----------------------------------|-------------------|---------------------|------|-------------------|
| CL2-(1030-1090)-30-F60-QBH-A-WC  | 60                | 28                  | 0.22 | AR/AR@1030-1090nm |
| 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 |

如何防止鋼材表面生銹？

鋼材表面生銹是鋼材在自然環境中，由於氧氣和水分的作用，導致鋼材表面形成氧化鐵。為了防止鋼材生銹，可以采取以下措施：1. 塗漆：在鋼材表面塗刷防腐塗料，形成保護膜。2. 鍍鋅：在鋼材表面鍍上一層鋅，利用鋅的犧牲保護鋼材。3. 使用不銹鋼：選用不銹鋼材料，其表面含有鉻元素，能形成致密的氧化鉻膜，防止生銹。4. 控制環境：保持鋼材存放環境的乾燥和通風，減少濕度和氧氣的含量。5. 定期檢查：對鋼材進行定期檢查，發現生銹跡象時及時處理。







BEFORE

AFTER



BEFORE

AFTER



BEFORE

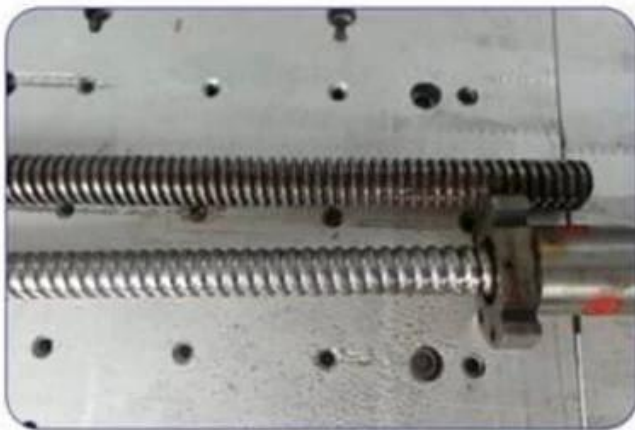
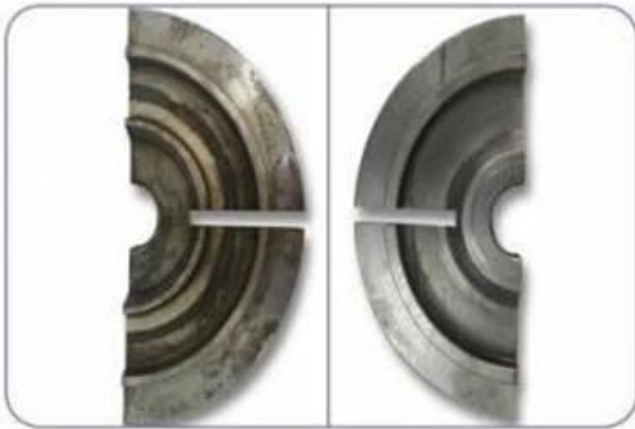


AFTER



BEFORE

AFTER











重要仪器,  
非专业人士勿动。

OptiCentric 300

TRIOPTICS







PerkinElmer Lambda 950---Testing Transmission and Reflectivity







# C E R T I F I C A T E

## 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**

  
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 notified 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:91320594M1MF4EP56  
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







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- 1 問) 〇 〇〇〇 〇〇〇〇 〇〇〇〇〇〇。
- 2 問) 〇〇〇 〇〇〇 〇〇 〇〇〇 〇 〇〇 〇〇 〇〇〇〇〇〇。
- 3 問) 〇〇〇 〇〇〇〇 〇〇 〇〇〇 〇〇〇〇〇。
- 4 問) 〇〇 〇 〇〇 〇〇 〇〇〇 〇〇 〇〇〇 〇〇〇〇〇。

問 問:

- (1) 〇〇〇 〇〇 〇〇 〇〇〇 〇〇 DHL, UPS, FedEx, TNT, EMS, ETS 〇〇〇 〇 〇〇〇〇。
- (2) 〇〇〇〇〇〇〇〇〇〇〇, 〇 〇 〇〇〇〇 be 〇〇 〇〇~〇 〇〇〇〇〇〇 〇〇 FOB, CNF, CIF. 〇 〇〇〇〇〇〇~〇 〇〇〇〇〇〇〇 〇〇〇〇〇〇〇〇〇〇〇〇〇〇〇 〇。

## 〇〇〇〇 〇〇

Q1. 〇〇〇〇〇〇〇?

A1 : 〇, 〇〇〇 〇〇 〇〇〇 〇〇 〇 〇〇 〇〇〇 〇〇 〇〇〇〇〇 〇〇 〇 〇〇〇〇〇〇〇。

Q2. 〇〇〇 〇〇〇 〇〇〇〇〇?

A2 : 〇〇〇 〇〇〇〇 QC 〇〇 〇〇 〇〇〇 〇〇〇 〇〇〇〇 〇〇 〇〇 〇, 〇〇 〇〇 〇 〇〇〇 〇〇〇〇 〇〇〇 〇〇〇 〇〇〇〇〇〇。

Q3. 〇〇〇 〇〇〇〇〇〇〇?

A3 : 〇〇〇 〇〇 〇〇〇〇 〇〇 〇〇〇〇 〇〇 〇〇〇〇〇 〇〇〇 〇〇〇〇〇。

Q4. 〇〇〇 〇〇〇 〇〇〇 〇〇〇〇〇?

A4 : 〇〇〇 〇〇〇〇〇 〇〇 〇〇 〇〇 〇〇〇〇 〇〇 〇〇〇 〇〇 〇〇, 〇〇, 〇〇 〇〇 〇 〇〇 〇〇〇〇〇。 〇〇〇〇〇。

Q5. May MARKING 〇〇〇 〇〇〇〇〇 〇〇 〇〇〇 〇〇〇 〇?

A5 : 〇! 〇〇〇 〇〇〇 〇〇〇 〇〇〇〇 〇〇〇〇〇 〇〇 〇〇〇 〇〇 〇〇 〇 〇〇〇〇。

Q6. 〇〇〇 〇〇 〇 〇 〇〇〇〇?

A6 : 〇, 〇〇〇 〇〇〇 〇〇〇 〇〇〇 〇〇〇 〇〇〇〇 〇〇 〇〇〇〇〇。

Q7. OEM 〇〇 ODM 〇〇〇 〇〇〇 〇 〇 〇〇〇〇?

A7 : 〇〇 OEM / ODM ORD 〇〇 〇〇 〇〇〇 〇〇ers. 〇〇〇 〇〇〇〇 〇〇〇〇〇 〇〇〇〇 〇〇 〇〇 〇〇〇〇〇〇。

Q8. 〇〇〇 〇〇〇 〇〇〇〇〇〇〇?

A8 : 〇 〇〇〇 〇〇〇 〇〇〇 〇〇 〇〇 〇 MOQ 〇〇〇 〇〇〇 T / T 〇〇 〇 〇 〇〇〇〇。