

Electronics

Equipment List:

Carmanhaas equipment list includes equipment for electronics manufacturing, including equipment for PCB manufacturing, electroplating, and other electronics manufacturing equipment. The equipment list includes: PCB manufacturing equipment, electroplating equipment, and other electronics manufacturing equipment. (Equipment list: PCB manufacturing equipment, electroplating equipment, and other electronics manufacturing equipment.)

Equipment List:

- (1) Equipment for PCB manufacturing, including equipment for PCB manufacturing, electroplating, and other electronics manufacturing equipment.
- (2) Equipment for PCB manufacturing, including equipment for PCB manufacturing, electroplating, and other electronics manufacturing equipment.
- (3) Equipment for PCB manufacturing, including equipment for PCB manufacturing, electroplating, and other electronics manufacturing equipment.
- (4) Equipment for PCB manufacturing, including equipment for PCB manufacturing, electroplating, and other electronics manufacturing equipment.
- (5) Equipment for PCB manufacturing, including equipment for PCB manufacturing, electroplating, and other electronics manufacturing equipment.
- (6) Equipment for PCB manufacturing, including equipment for PCB manufacturing, electroplating, and other electronics manufacturing equipment.
- (7) Equipment: PCB manufacturing, electroplating, and other electronics manufacturing equipment.



Equipment List:

* Equipment List: PCB manufacturing, electroplating, and other electronics manufacturing equipment. Equipment List: PCB manufacturing, electroplating, and other electronics manufacturing equipment.

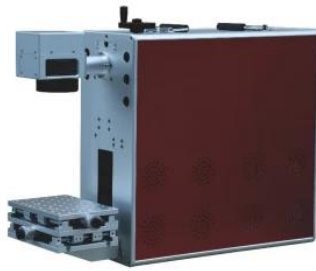
LMCH-20 LMCH-30 LMCH-50 LMCH-60 LMCH-70 LMCH-80 LMCH-90 LMCH-100

*** 主要参数:**

LMCH系列清洗机采用进口高品质材料，具有清洗能力强、清洗效率高、清洗质量好、清洗范围广、清洗速度快、清洗时间短、清洗成本低、清洗操作简单、清洗安全可靠、清洗环保等优点。

主要参数:

项目 / 参数	LMCH -20	LMCH-30
清洗功率	20W	30W
清洗波长	1064nm	1064nm
清洗精度 M2	<1.3	<1.3
清洗频率	20kHz ~ 200kHz	30kHz ~ 200kHz
清洗尺寸	70 * 70 厘米 110 * 110 厘米 150 * 150 厘米 175 * 175 厘米	70 * 70 厘米 110 * 110 厘米 150 * 150 厘米 175 * 175 厘米
清洗精度	≤1mm	≤1.5mm
清洗功率	800W	800W
清洗精度	0.03mm	0.04mm
清洗精度	± 0.0001mm	± 0.0001mm
清洗精度	220 ± 10%, 50 / 60Hz, 2.5A	220 ± 10%, 50 / 60Hz, 2.5A
清洗精度	清洗精度	清洗精度



LMCH-20 LMCH-30 LMCH-50 LMCH-60 LMCH-70 LMCH-80 LMCH-90 LMCH-100

主要参数:

Product details

01

Raycus laser source

Raycus' 10~100W Q-switched pulsed fiber lasers feature high peak power, high pulse energy and optional output beam size. They are widely used in marking, precision drilling and engraving on non-metal and high reflection metals, such as gold, silver, aluminum and stainless steel etc..



02

Galvanometer

Galvanometer scanner and beam expander to form a two dimensions scanning system. The scan lens is optimized to provide a flat field image with diffraction-limited spot size in micron scale over the entire scan field.

03

F-theta lens

it have very good laser beam transparent rate, less laser beam loss, longer lifetime than other brand lens
200*200/300*300mm lens could be configured



04

Laser controller card



Laser control card enables real-time control of scan system and lasers over a standard USB host interface. Customers can integrate complete machinery easily over the laser control card due to its compactness and I/O capabilities. Fast response times and short execution cycle times make the EzCad Card perfectly suitable for high performance applications. It can load marking file via a removable MMC memory card.

■ The Kitchenware Industry



■ The Jewelry Industry



■ The Car Industry



■ Other Industry







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 : **Caman 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. 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: Mutlukent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya - Ankara - TURKEY

Phone: +90 0312 443 03 90 **Fax:** +90 0312 443 03 76

E-mail: info@udemltd.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

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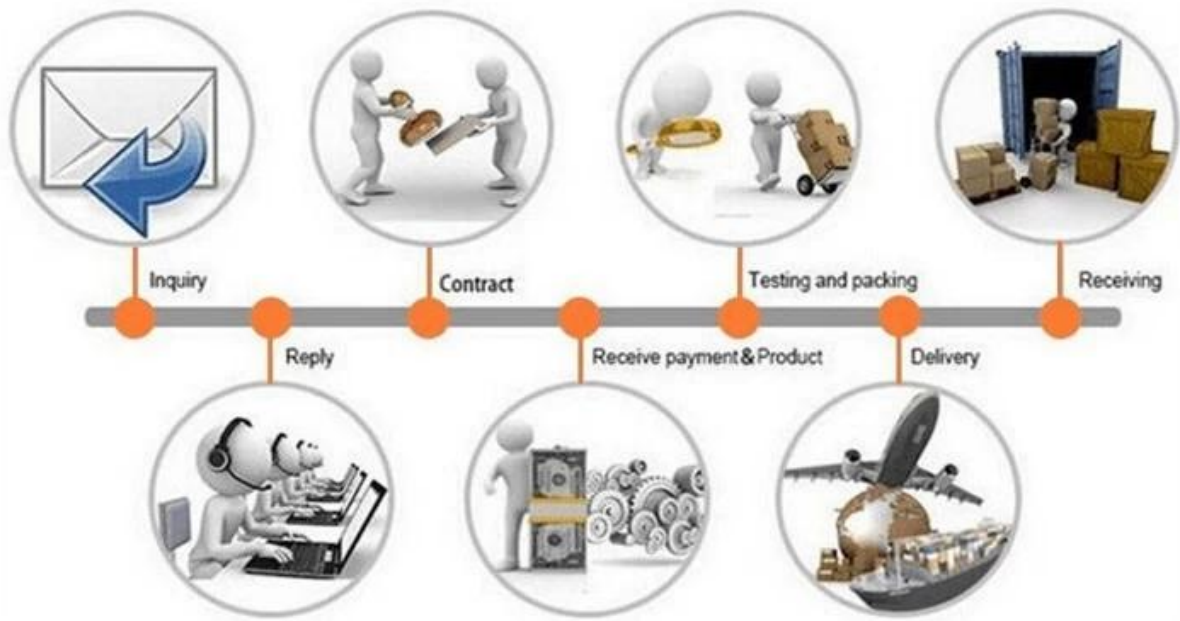
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በዚህ ገጽ ላይ፡ በደንበኞች ለሚጠየቁ ጥያቄዎች መሰረት የሚሰጡትን መረጃዎች እና የሥራ ሁኔታዎችን ያቀራጥጥን።

- 1) የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።
- 2) የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።
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- 4) የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

የሥራ ሁኔታ:

የሥራ ሁኔታዎችን፣ የገንዘብ ሁኔታዎችን፣ FedEx፣ የገንዘብ ሁኔታዎችን፣ የገንዘብ ሁኔታዎችን etc For የሥራ ሁኔታዎችን፣ የገንዘብ ሁኔታዎችን፣ Exwork፣ የገንዘብ ሁኔታዎችን፣ CNF፣ የገንዘብ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q1.Are?

A1: ሰነድ፣ የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q2.How?

Q 2: የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q3.How?

Q 3: የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q4.How የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q 4: የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q5.May የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

A5: ሰነድ! የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q6.Can የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q 6: ሰነድ፣ የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

7. የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q 7: የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q8 የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።

Q 8: የሥራ ሁኔታዎችን ለማረጋገጥ የሚያስፈልጉትን ሰነዶች ያቀርቡ።