

CO<sub>2</sub> Beam Expander:

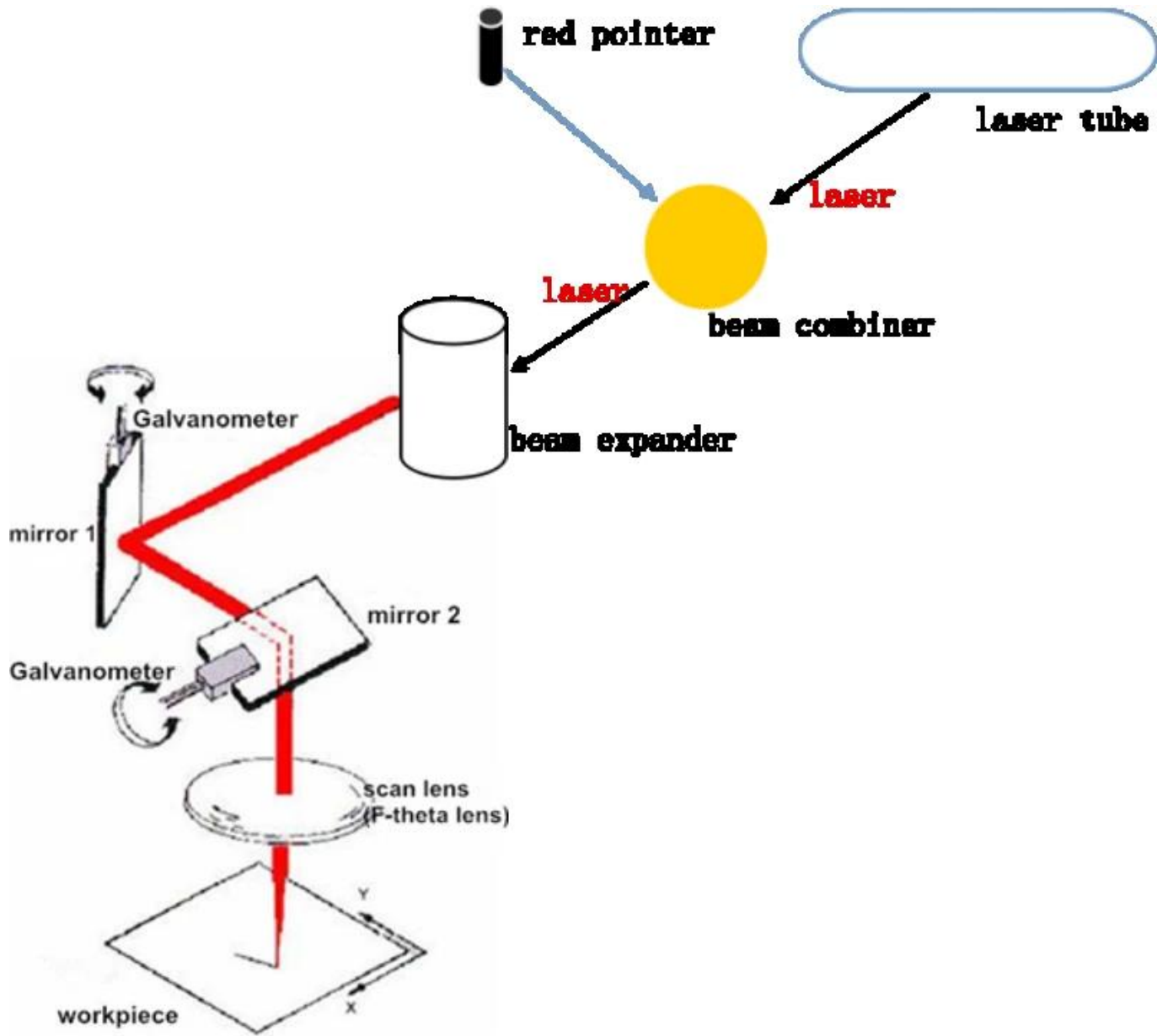
CO<sub>2</sub> Beam Expander: CO<sub>2</sub> Beam Expander is a 2-stage beam expander that is used to expand the beam of a CO<sub>2</sub> laser. It consists of two lenses, a collimating lens and a focusing lens, which are spaced at a distance of 1.5 times the focal length of the collimating lens. The collimating lens is made of ZnSe and the focusing lens is made of CaF<sub>2</sub>. The beam expander is used to expand the beam of a CO<sub>2</sub> laser to a larger diameter and to collimate the beam.

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[Wholesales CO<sub>2</sub> Beam Expander](#), CO<sub>2</sub> Beam Expander is a 2-stage beam expander that is used to expand the beam of a CO<sub>2</sub> laser. It consists of two lenses, a collimating lens and a focusing lens, which are spaced at a distance of 1.5 times the focal length of the collimating lens. The collimating lens is made of ZnSe and the focusing lens is made of CaF<sub>2</sub>. The beam expander is used to expand the beam of a CO<sub>2</sub> laser to a larger diameter and to collimate the beam.







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XXX ----- □□□□□ □□□□□□□□□□□□□□: 10.6 □□□□□ 10.6um, 10600nm, □□□ 2

DYY: ZZZ ----- □□□ Expander □□□□□□□ □□□: □□□□□□□ □□□□□

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### CO2 Beam Expanders (9.2-9.7um)

Part Description	Expansion Ratio	Input CA (mm)	Output CA (mm)	Housing Dia(mm)	Housing Length (mm)	Mounting Thread
BE-(9.2-9.7)-D20:61.7-2.5x	2.5X	12.7	20	25	61.7	M22*0.75
BE-(9.2-9.7)-D20:67.5-3x	3X	12.7	20	25	67.5	M22*0.75
BE-(9.2-9.7)-D30:69.3-4X	4X	12.7	20	25	69.3	M22*0.75
BE-(9.2-9.7)-D37:74.5-5X	5X	12.7	37	43	74.5	M22*0.75
BE-(9.2-9.7)-D35:74-8x	8X	12.7	35	32	74.0	M22*0.75

### CO2 Beam Expanders (10.6um)

Part Description	Expansion Ratio	Input CA (mm)	Output CA (mm)	Housing Dia(mm)	Housing Length (mm)	Mounting Thread
BE-10.6-D22:35.7-1.5x-A	1.5X	15.0	22	27	35.7	M22*0.75
BE-10.6-D17:46.5-2x	2X	12.7	17	25	46.5	M22*0.75
BE-10.6-D17:43.3-2x-A	2X	12.7	17	23	43.3	M22*0.75
BE-10.6-D20:59.7-2.5x	2.5X	12.7	20	25	59.7	M22*0.75
BE-10.6-D20:61.1-2.5x-A	2.5X	12.7	20	24	61.1	M22*0.75
BE-10.6-D17:64.5-3x	3X	12.7	17	25	64.5	M22*0.75
BE-10.6-D17:62.9-3x-A	3X	12.7	17	24	62.9	M22*0.75
BE-10.6-D32:53-3.5x	3.5X	12.0	32	36	53.0	M22*0.75
BE-10.6-D17:70.5-4x	4X	12.7	17	25	70.5	M22*0.75
BE-10.6-D17:68.4-4x-A	4X	12.7	17	24	68.4	M22*0.75
BE-10.6-D20:72-5x	5X	12.7	20	25	72.0	M22*0.75
BE-10.6-D20:73-5x-A	5X	12.7	20	24	73.0	M22*0.75
BE-10.6-D27:75.8-6x	6x	12.7	27	32	75.8	M22*0.75
BE-10.6-D27:75-6x-A	6x	12.7	27	31	75.0	M22*0.75
BE-10.6-D27:71-8x	8X	12.7	27	32	71.0	M22*0.75
BE-10.6-D27:73.1-8x-A	8X	12.7	27	31	73.1	M22*0.75









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# 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**

*U. Bayraktar*  
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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) 請提供詳細的規格書及樣品
- 2) 請提供您的公司名稱、地址、電話、傳真、電子郵件及產品名稱
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- 4) 請提供您的公司名稱、地址、電話、傳真、電子郵件

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請提供詳細的規格書、樣品、照片、**FedEx**、運輸單、產品名稱、數量、單位

請提供您的公司名稱、地址、電話、傳真、電子郵件、產品名稱、數量、單位、運輸單、運輸日期、運輸地點、運輸方式

## 請提供詳細的規格書及樣品

請提供詳細的規格書及樣品 Q1.Are?

A1: 請提供您的公司名稱、地址、電話、傳真、電子郵件、產品名稱、數量、單位

請提供詳細的規格書及樣品 Q2.How?

Q 2: 請提供您的公司名稱、地址、電話、傳真、電子郵件、產品名稱、數量、單位、運輸單、運輸日期、運輸地點、運輸方式

請提供詳細的規格書及樣品 Q3.How?

Q 3: 請提供您的公司名稱、地址、電話、傳真、電子郵件、產品名稱、數量、單位、運輸單、運輸日期、運輸地點、運輸方式

Q4.How 請提供詳細的規格書及樣品?

Q 4: 請提供您的公司名稱、地址、電話、傳真、電子郵件、產品名稱、數量、單位、運輸單、運輸日期、運輸地點、運輸方式

Q5.May 請提供詳細的規格書及樣品?

A5: 請提供您的公司名稱、地址、電話、傳真、電子郵件、產品名稱、數量、單位、運輸單、運輸日期、運輸地點、運輸方式

Q6.Can 請提供詳細的規格書及樣品?

Q 6: 請提供您的公司名稱、地址、電話、傳真、電子郵件、產品名稱、數量、單位、運輸單、運輸日期、運輸地點、運輸方式

Q7.How 請提供 OEM 或 ODM 詳細的規格書及樣品?

Q 7: 請提供您的公司名稱、地址、電話、傳真、電子郵件、產品名稱、數量、單位、運輸單、運輸日期、運輸地點、運輸方式

請提供詳細的規格書及樣品 8) 請提供詳細的規格書及樣品?

Q 8: 請提供您的公司名稱、地址、電話、傳真、電子郵件、產品名稱、數量、單位、運輸單、運輸日期、運輸地點、運輸方式