



Product Information

CO₂ Beam Expander:

CO₂ Beam Expander is a high-precision optical component used for expanding and collimating CO₂ laser beams. It consists of two high-quality lenses, typically made of ZnSe, which are precisely aligned to ensure optimal beam quality. The device is designed to handle a wide range of wavelengths, including 10.6 μm, 9.2-9.7 μm, 10.3-10.9 μm, 532 nm, and 355 nm. It is commonly used in industrial laser applications, such as cutting, welding, and marking, where precise beam control is essential.

CO₂ Beam Expander is made of ZnSe material, which is highly resistant to laser damage and provides excellent optical performance. It is designed to be easy to install and maintain, ensuring long-term reliability and consistent results.

CO₂ Beam Expander is available in various models and configurations to meet different application requirements. The standard model features a 355nm, 532nm, 1030-1090nm, 9.2-9.7μm, 10.6μm CO₂ laser beam. Carmanhaas offers 3 different models of CO₂ Beam Expander.

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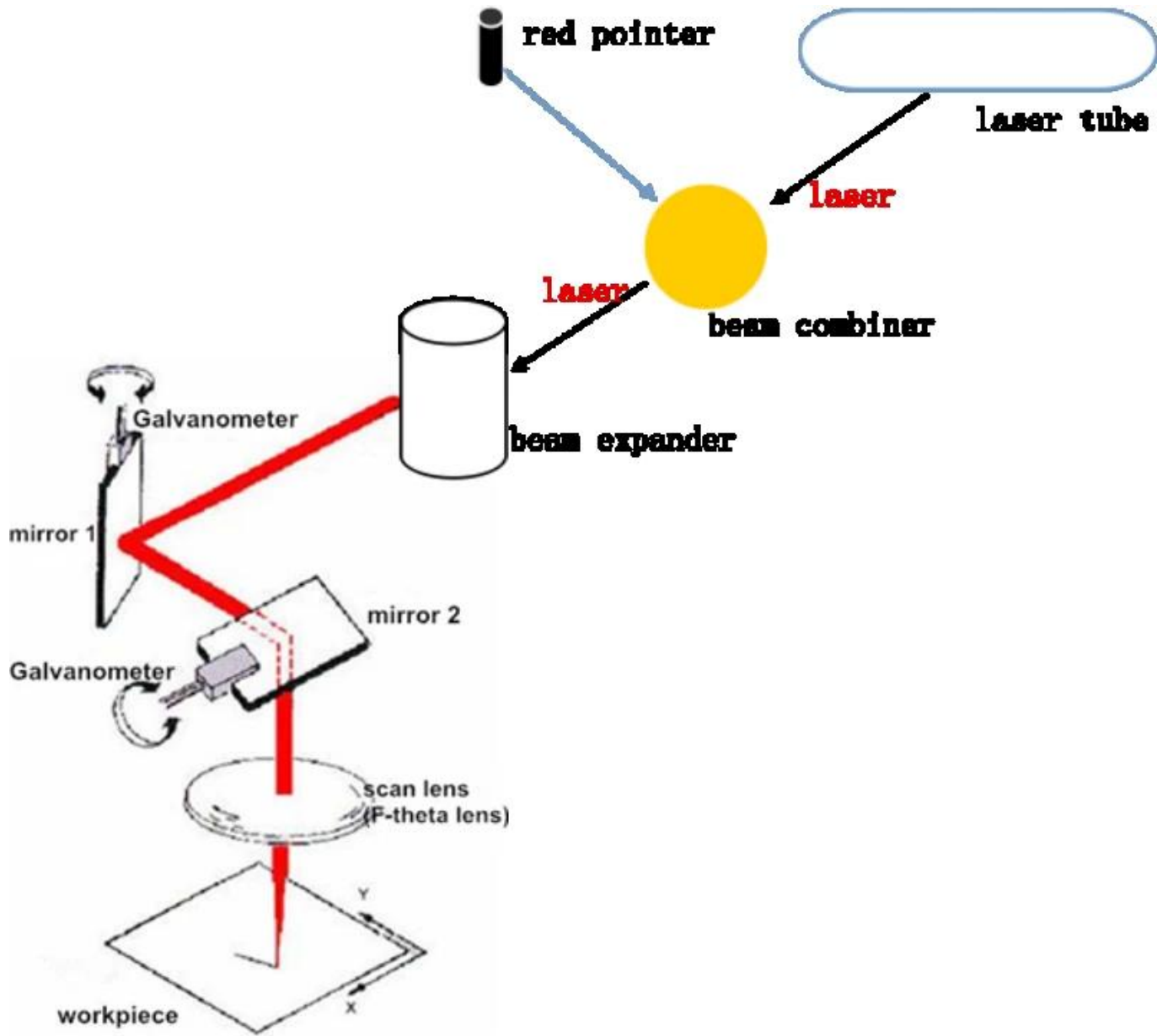


CO₂ Beam Expander

Improve the collimation of the beam,
Change the size and characteristics
of the beam divergence.







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

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

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□□□□ 2 □□□ □□□□□□□□□□ (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)-D20:71-4X	4X	12.7	20	25	69.3	M22*0.75
BE-(9.2-9.7)-D37:74.5-5X	5X	12.7	37	43	71.0	M22*0.75
BE-(9.2-9.7)-D30:79-6X	6X	12.7	30	38	79.0	M22*0.75
BE-(9.2-9.7)-D35:74-8X	8X	12.7	35	42	74.0	M22*0.75

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Part Description	Expansion Ratio	Input CA (mm)	Output CA (mm)	Housing Dia(mm)	Housing Length (mm)	Mounting Thread
BE-10.6-D17:46.5-2X	2X	12.7	17	25	46.5	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-D17:64.5-3X	3X	12.7	17	25	64.5	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-D20:72-5X	5X	12.7	20	25	72.0	M30*1
BE-10.6-D27:75.8-6X	6X	12.7	27	32	75.8	M22*0.75
BE-10.6-D27:71-8X	8X	12.7	27	32	71.0	M22*0.75



Factory







重要仪器,
非专业人士勿动。

OptiCentric 300

TRIOPTICS





PerkinElmer Lambda 950---Testing Transmission and Reflectivity







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



Beijing Zhongliantianrun Certification Center

Room 2603, 22nd Floor, 2nd Unit, Block 1, No.4 Yard, Qiayang 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>)

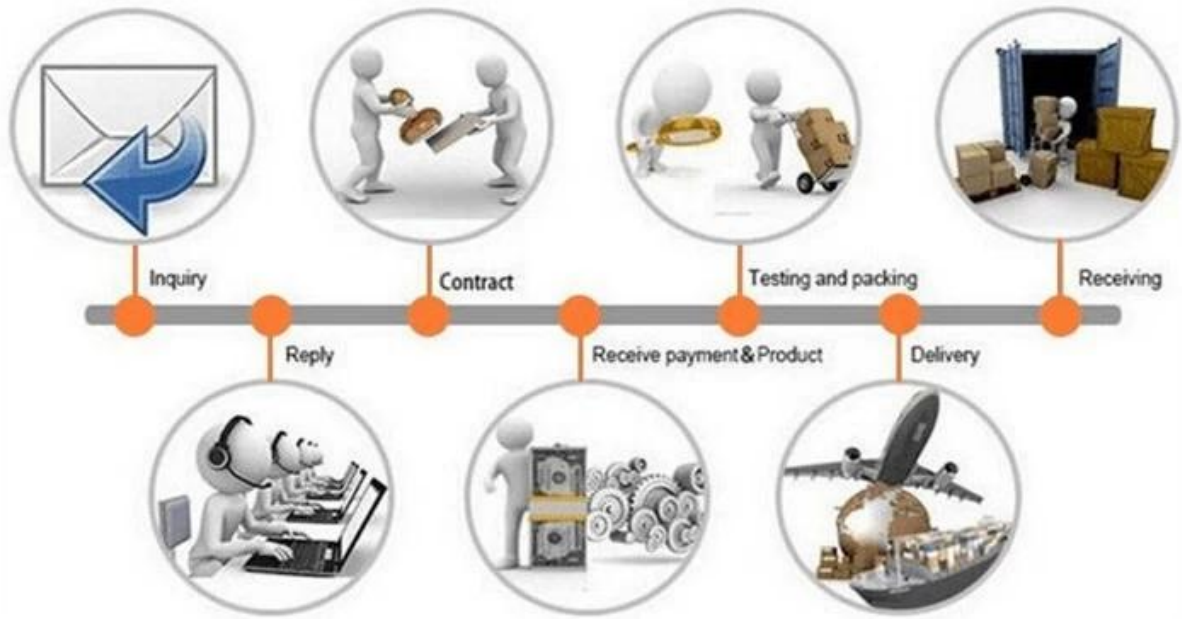
ISO 9001

ISO 9001



Packing List





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