

## » » » » »informação do produto

### Descrição do Produto:

Carmanhaas pode oferecer lentes ópticas de limpeza a laser completas e solução de sistema. Incluindo Módulo QBH, Scanner Galvo, lentes F-theta Scan e Sistema de Controle. We estamos focados na aplicação de laser industrial de ponta. [limpeza a laser preço china](#)

O nosso modelo padrão do Scanner Galvo é PSH10, PSH14, PSH20 e PSH30.

**versão PSH10-** para aplicações de laser industriais de ponta, como marcação de precisão, processamento on-the-fly, limpeza, soldagem, ajuste, scribing, manufatura aditiva (3D impressão), microestruturação, processamento de materiais, etc.

**versão de alta potência PSH14-H-** para potência do laser variando de 200W a 1KW (CW); cabeça de leitura totalmente vedada com resfriamento de água; adequada para alta potência do laser, poeira ou ocasiões ambientalmente desafiadoras , por exemplo, manufatura aditiva (impressão 3D), soldagem precisa, etc.

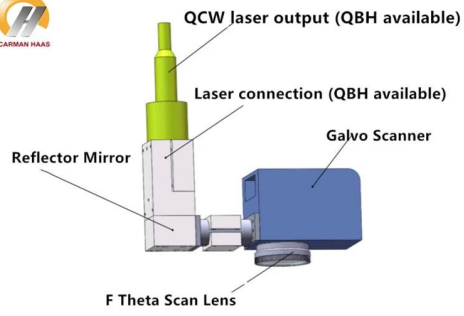
**versão de alta potência PSH20-H-** para potência do laser variando de 300W a 3KW (CW); cabeça de leitura totalmente vedada com refrigeração a água; adequada para alta potência do laser, poeira ou ocasiões ambientalmente desafiadoras , por exemplo, manufatura aditiva (impressão 3D), soldagem precisa, etc.

**versão de alta potência PSH30-H-** para potência do laser variando de 2KW a 6KW (CW); cabeça de leitura totalmente vedada com refrigeração a água; adequada para potência super alta do laser, ocasiões de deriva extremamente baixa. E. g. soldagem a laser.

### [Fornecedores de cabeçote a laser Galvo personalizado na China](#)

### Principais vantagens:

1. deriva de temperatura extremamente baixa ( $\leq 3 \mu\text{rad} / ^\circ\text{C}$ ); Mais de 8 horas de deslocamento de longo prazo  $\leq 30 \mu\text{rad}$
2. Extremamente alta resolução e repetibilidade; resolução  $\leq 1 \mu\text{rad}$ ; repetibilidade  $\leq 2 \mu\text{rad}$
3. Super alta velocidade:  
PSH10: 17m / s  
PSH14: 15m / s  
PSH20: 12m / s  
PSH30: 9m / s



## Parâmetros técnicos:

Model	PSH10	PSH14-H	PSH20-H	PSH30-H
<b>Input laser power (MAX.)</b>	CW: 1000W @ fiber laser Pulsed: 150W @ fiber laser	CW: 1000W @ fiber laser Pulsed: 500W @ fiber laser	CW: 3000W @ fiber laser Pulsed: 1500W @ fiber laser	CW: 1000W @ fiber laser Pulsed: 150W @ fiber laser
<b>Water cool/sealed scan head</b>	NO	yes	yes	yes
<b>Aperture (mm)</b>	10	14	20	30
<b>Effective Scan Angle</b>	±10°	±10°	±10°	±10°
<b>Tracking Error</b>	0.13 ms	0.19 ms	0.28ms	0.45ms
<b>Step Response Time(1% of full scale)</b>	≤ 0.27 ms	≤ 0.4 ms	≤ 0.6 ms	≤ 0.9 ms
<b>Typical Speed</b>				
<b>Positioning / jump</b>	< 157 m/s	< 15 m/s	< 12 m/s	< 9 m/s
<b>Line scanning/raster scanning</b>	< 12 m/s	< 10 m/s	< 7 m/s	< 4 m/s
<b>Typical vector scanning</b>	< 5 m/s	< 4 m/s	< 3 m/s	< 2 m/s
<b>Good Writing quality</b>	900 cps	700 cps	450 cps	260 cps
<b>High writing quality</b>	700 cps	550 cps	320 cps	180 cps
<b>Precision</b>				
<b>Linearity</b>	99.9%	99.9%	99.9%	99.9%
<b>Resolution</b>	≤ 1 urad	≤ 1 urad	≤ 1 urad	≤ 1 urad
<b>Repeatability</b>	≤ 2 urad	≤ 2 urad	≤ 2 urad	≤ 2 urad
<b>Temperature Drift</b>				
<b>Offset Drift</b>	≤ 3 urad/°C	≤ 3 urad/°C	≤ 3 urad/°C	≤ 3 urad/°C
<b>Over 8hours Long-Term Offset Drift ( After 15min warm-up )</b>	≤ 30 urad	≤ 30 urad	≤ 30 urad	≤ 30 urad
<b>Operating Temperature Range</b>	25°C±10°C	25°C±10°C	25°C±10°C	25°C±10°C
<b>Signal Interface</b>	Analog: ±10V Digital: XY2-100 protocol	Analog: ±10V Digital: XY2-100 protocol	Analog: ±10V Digital: XY2-100 protocol	Analog: ±10V Digital: XY2-100 protocol
<b>Input Power Requirement (DC)</b>	±15V@ 4A Max RMS	±15V@ 4A Max RMS	±15V@ 4A Max RMS	±15V@ 4A Max RMS

**Nota:**

- (1) Todos os ângulos estão em graus mecânicos.
- (2) Com objetiva F-Theta  $f = 163 \text{ mm}$ . O valor da velocidade varia correspondentemente com diferentes distâncias focais.
- (3) Fonte de traço simples com altura de 1mm.

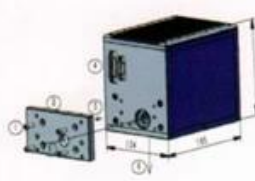
[scanner galvo vendas por atacado china](#)

**Mecânico Dimensões (mm):**

# PSH20 Scan Head

Focus on high end industrial laser applications

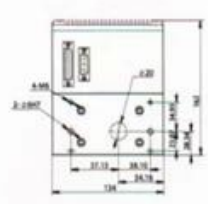
Mechanical Drawings



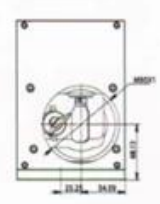
PSH20 scan head

**Legend:**


- 1. Mounting screw holes (M5×12)
- 2. Installation flange
- 3. Dowel pin-hole (φ4×2)
- 4. Electrical connector
- 5. Beam in hole
- 6. Beam out hole



Beam In & Mounting Bracket



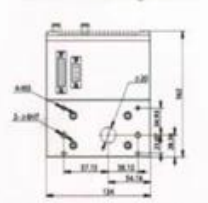
Beam Exit Side



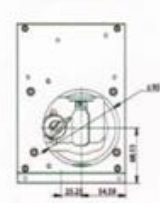
PSH20-H scan head

**Legend:**


- 1. Mounting screw holes (M5×12)
- 2. Installation flange
- 3. Dowel pin-hole (φ4×2)
- 4. Electrical connector
- 5. Beam in hole
- 6. Beam out hole
- 7. Cooling water in
- 8. Cooling water out



Beam In & Mounting Bracket



Beam Exit Side



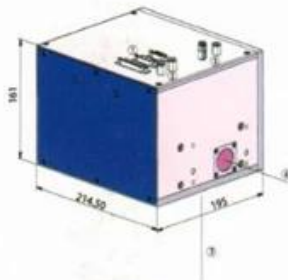
**CARMAN HAAS**

# PSH30 Scan Head

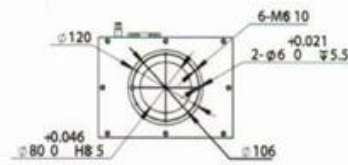
Focus on high end industrial laser applications



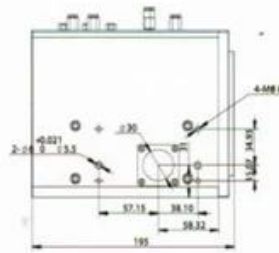
## Mechanical Drawings



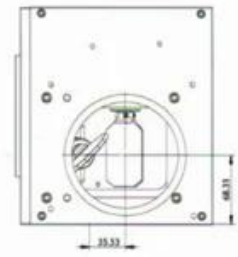
PSH30/PSH30-H scan head



Installation flange



Beam In Side

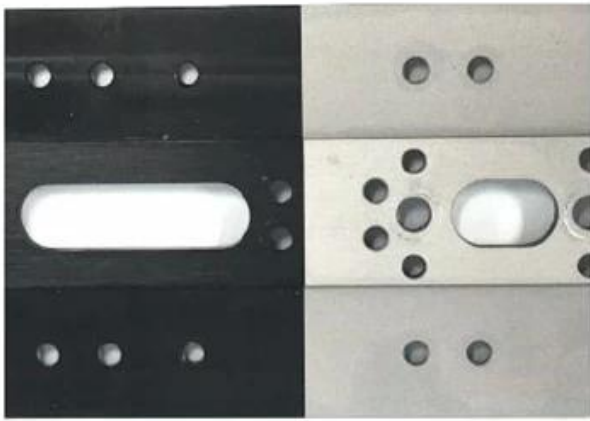


Beam Exit Side



**BEFORE**

**AFTER**



BEFORE

AFTER



BEFORE

AFTER



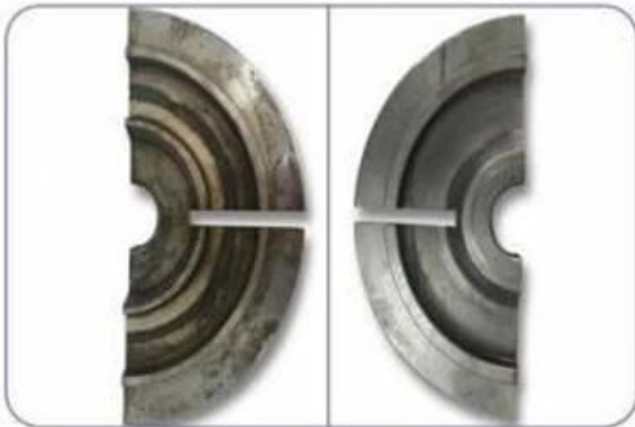
BEFORE

AFTER



BEFORE

AFTER

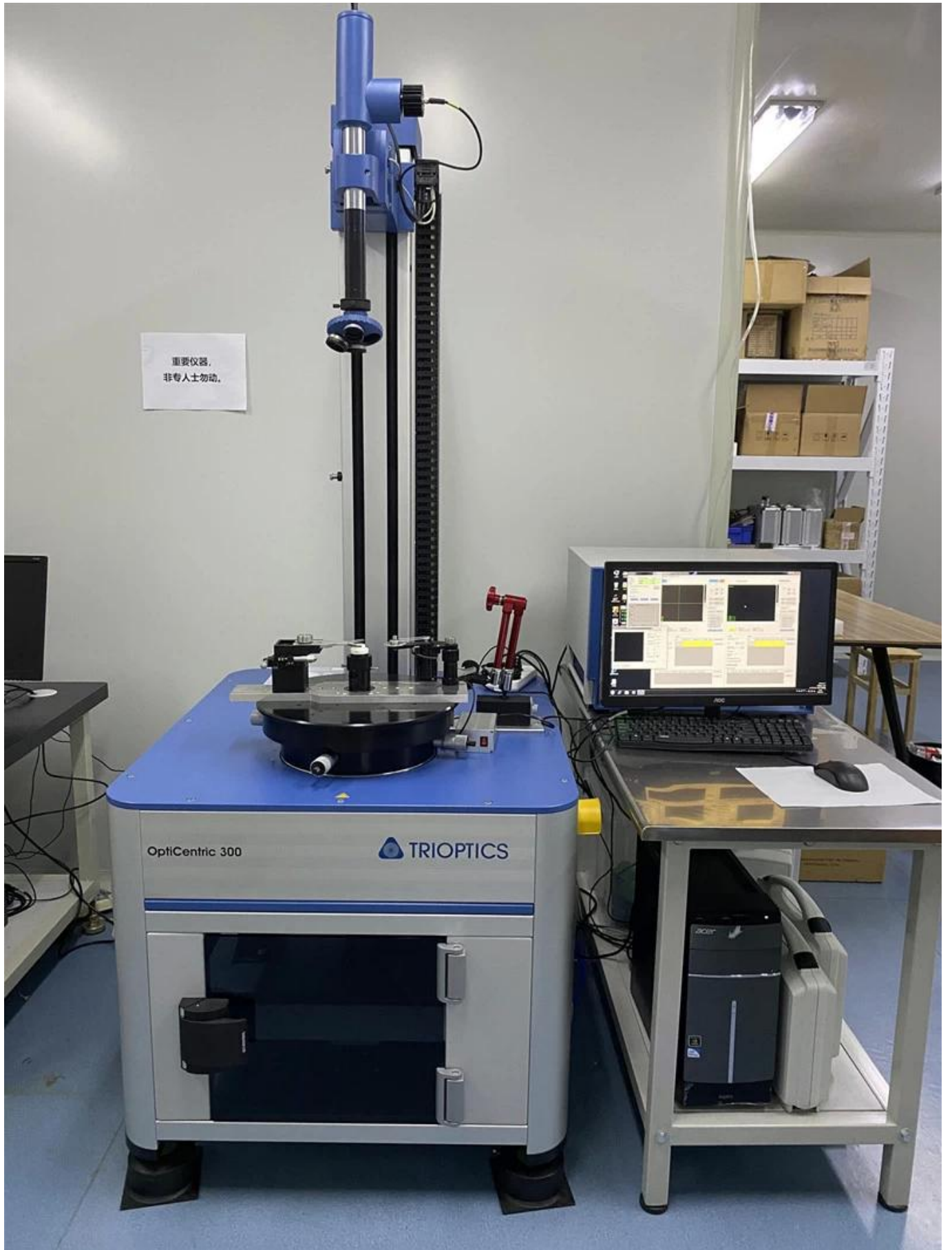




》》》》》Fábrica







重要仪器,  
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OptiCentric 300

TRIOPTICS





PerkinElmer Lambda 950---Testing Transmission and Reflectivity



## » » » » » Certificado e Exposição



# 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**

*Signature*  
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-mentioned firm must keep a copy of this certificate for 10 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: Mithakent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya - Ankara - TÜRKİYE  
Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76  
E-mail: [info@udemtd.com.tr](mailto:info@udemtd.com.tr) [www.udem.com.tr](http://www.udem.com.tr)



## Certificate of Approval

Certificate No.: 10119Q12565R0M

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

Room2003, 22nd Floor, 2nd Unit, Block 1, No.4 Yard, Qiyang Road, Chaoyang District, Beijing, P.R. China 100022

Information of the center 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



》》》》》Lista de embalagem



**Test Report**  
出厂检查报告

Model / 产品型号: **PSH20**  
 S/N / 产品序列号: **PS1F200046**

Function Test / 功能测试

No. / 序号	Parameters / 检测项目	Test Result / 测试结果	Comment / 备注
1	Dimensional Accuracy / 尺寸精度	OK	
2	Surface Finish / 表面光洁度	OK	
3	Material / 材料	OK	
4	Coating / 涂层	OK	
5	Weight / 重量	OK	
6	Surface Hardness / 表面硬度	OK	
7	Internal Stress / 内应力	OK	
8	Surface Roughness / 表面粗糙度	OK	
9	Surface Porosity / 表面气孔率	OK	
10	Surface Cracks / 表面裂纹	OK	
11	Surface Inclusions / 表面夹杂物	OK	
12	Surface Defects / 表面缺陷	OK	

Inspector / 检验员: **张明** Date / 日期: **8-1**

General Inspection / 外观检查

No. / 序号	Inspected Item / 检测项目	Test Result / 测试结果	Comment / 备注
1	Surface / 表面	OK	
2	Edges / 边缘	OK	
3	Internal / 内部	OK	
4	Assembly / 装配	OK	
5	Painting / 涂装	OK	
6	Marking / 打标	OK	

Inspector / 检验员: **张明** Date / 日期: **08-01**

Marking Inspection / 打标检查

No. / 序号	Inspected Item / 检测项目	Test Result / 测试结果	Comment / 备注
1	Marking Accuracy / 打标精度	OK	
2	Marking Clarity / 打标清晰度	OK	
3	Marking Durability / 打标持久性	OK	
4	Marking Position / 打标位置	OK	
5	Marking Content / 打标内容	OK	
6	Marking Format / 打标格式	OK	

Inspector / 检验员: **张明** Date / 日期: **2008-01**



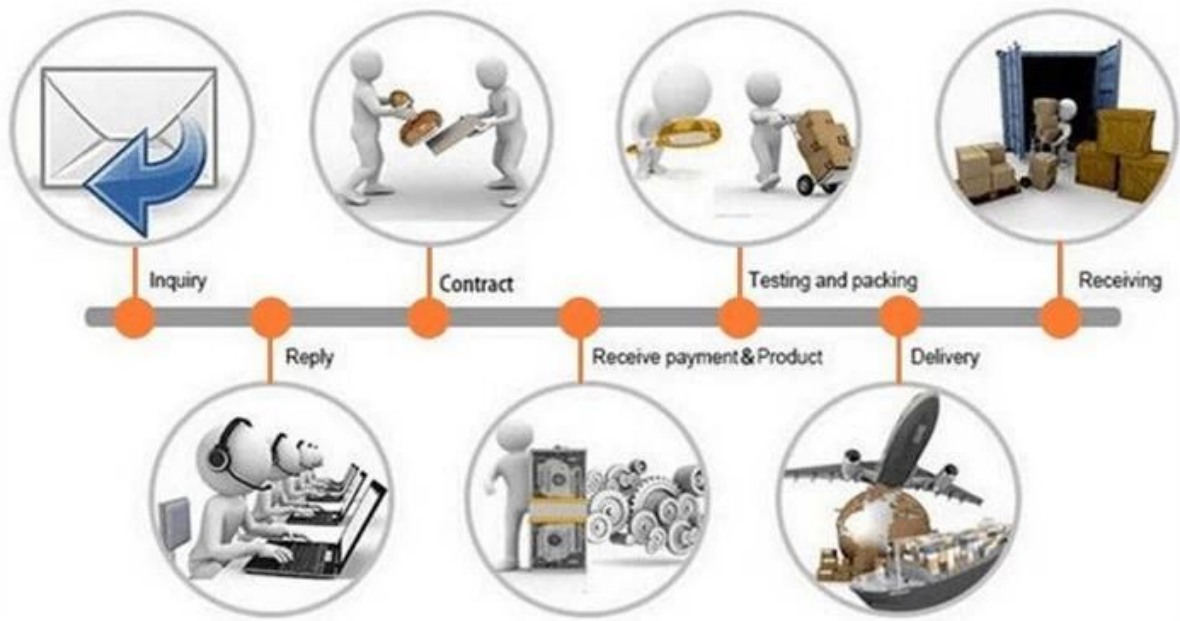




Model: PSH20  
S/N: PSHf200046

**Precision Scan Inc.**

D5-4 Red Manor International Bounded Innovation Park, No. 1 Baijialou,  
Chaoyangbei Rd, Chaoyang District, 100024 Beijing, China  
<https://www.precisionscan.ca>



**Política de devolução:**

Devem ser exigidas devoluções:

Etapa 1) Entre em contato conosco através deste e-mail do site.

Etapa 2) Forneça o máximo de detalhes possível sobre o problema que você está enfrentando.

Passo 3) A autorização para devolução do item será emitida.

Etapa 4) Devolva o item para a substituição ou reembolso acordado.

### **Logística:**

(1) Para entrega de pedido da Laser Optics, pode ser opcional com DHL, UPS, FedEx, TNT, EMS, etc

(2) Para Laser máquina a entrega, pode estar opcional com termos do Ex trabalho FOB, CNF, CIF De Aroude Mar Sediada em comprador despachantes ou nosso.

## » » » » Perguntas frequentes

Q1. Você é um fabricante?

A1: Sim, nós somos fabricantes profissionais e experientes com nossos próprios moldes e linhas de produção.

Q2. How sobre a qualidade dos produtos?

A2: Nossos técnicos e equipes de controle de qualidade testam os produtos um por um usando linha de envelhecimento, dispositivos profissionais e instrumentos para garantir a qualidade de todos os produtos.

Q3. How sobre o preço?

A3: Somos fabricantes e oferecemos sempre aos nossos clientes os preços mais competitivos.

Q4. Como fazer um pedido?

A4: Entre em contato com o serviço online ou envie um e-mail diretamente para nós, em breve responderemos com o preço do produto, especificações, embalagem etc. Obrigado.

Q5. Posso enviar material para testar o desempenho da marcação?

A5: Sim! Você está convidado a enviar material para testar nossa qualidade e serviço superiores.

Q6. Can posso visitar sua fábrica?

A6: Sim, boa vinda para visitar nossa fábrica em seu momento conveniente.

Q7. How posso fazer pedidos OEM ou ODM?

A7: temos diferentes processos de impressão para diferentes OEM / ODM orders. Entre em contato com o serviço online ou envie um e-mail diretamente para nós.

Q8. Como devo pagar meus pedidos?

A8: você pode pagar por T / T estaria disponível para o banco qualificado e MOQ necessário para cada pedido.