

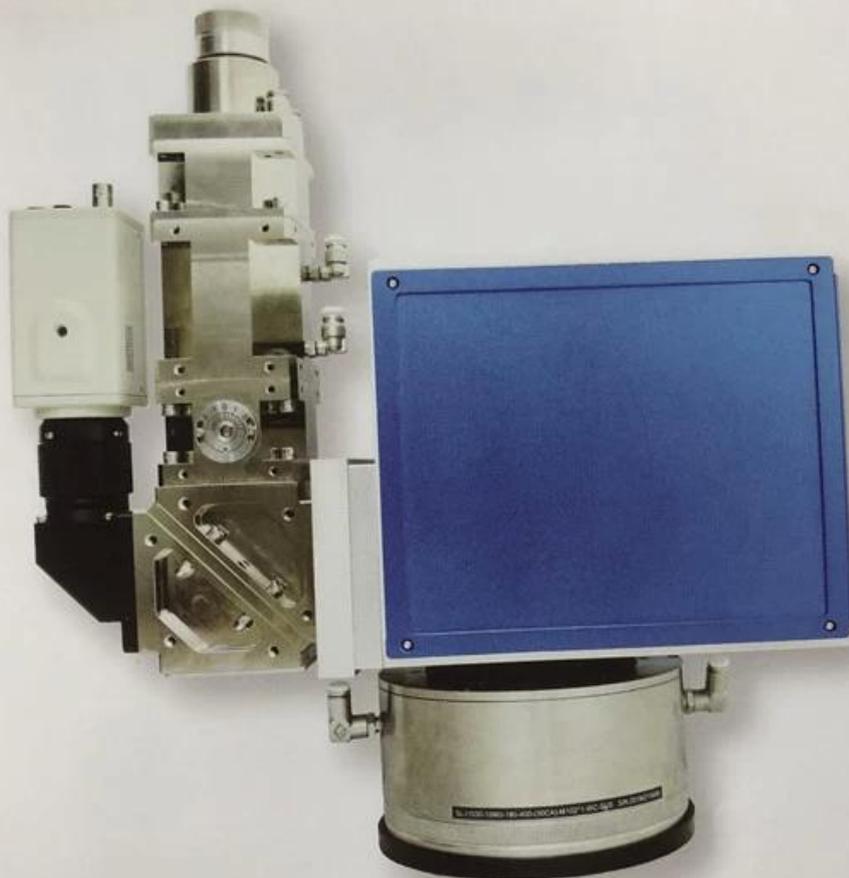
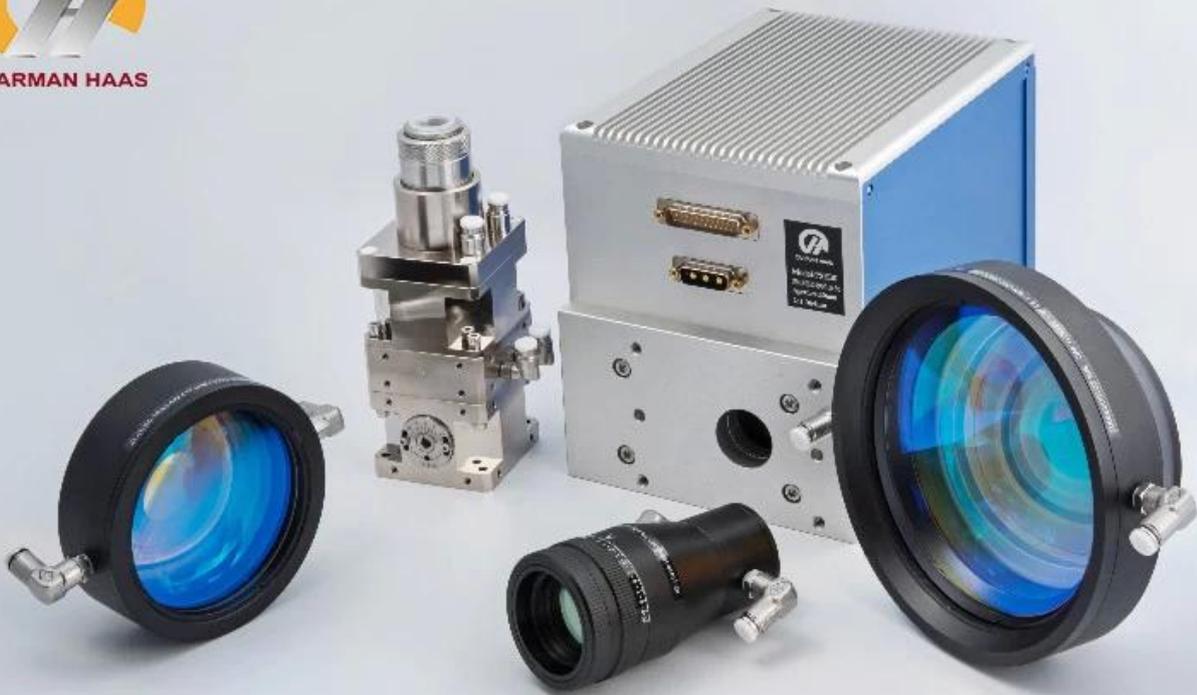


CARMAN HAAS



激光焊接光学元器件

Optics and optical system for fiber laser welding



□□□ □ □□ □□ :

Model	PSH14-H	PSH20-H	PSH30-H
Input laser power (MAX.)	CW: 1000W @ fiber laser Pulsed: 500W @ fiber laser	CW: 3000W @ fiber laser Pulsed: 1500W @ fiber laser	CW: 1000W @ fiber laser Pulsed: 150W @ fiber laser
Water cool/sealed scan head	yes	yes	yes
Aperture (mm)	14	20	30
Effective Scan Angle	±10°	±10°	±10°
Tracking Error	0.19 ms	0.28ms	0.45ms
Step Response Time(1% of full scale)	≤ 0.4 ms	≤ 0.6 ms	≤ 0.9 ms
Typical Speed			
Positioning / jump	< 15 m/s	< 12 m/s	< 9 m/s
Line scanning/raster scanning	< 10 m/s	< 7 m/s	< 4 m/s
Typical vector scanning	< 4 m/s	< 3 m/s	< 2 m/s
Good Writing quality	700 cps	450 cps	260 cps
High writing quality	550 cps	320 cps	180 cps
Precision			
Linearity	99.9%	99.9%	99.9%
Resolution	≤ 1 urad	≤ 1 urad	≤ 1 urad
Repeatability	≤ 2 urad	≤ 2 urad	≤ 2 urad
Temperature Drift			
Offset Drift	≤ 3 urad/°C	≤ 3 urad/°C	≤ 3 urad/°C
Over 8hours Long-Term Offset Drift (After 15min warm-up)	≤ 30 urad	≤ 30 urad	≤ 30 urad
Operating Temperature Range	25°C±10°C	25°C±10°C	25°C±10°C
Signal Interface	Analog: ±10V Digital: XY2-100 protocol	Analog: ±10V Digital: XY2-100 protocol	Analog: ±10V Digital: XY2-100 protocol
Input Power Requirement (DC)	±15V@ 4A Max RMS	±15V@ 4A Max RMS	±15V@ 4A Max RMS

□□ :

- (1) □□ □□ □□ □□□□. (**Galvo** □□ □□ □□ □□□□ □□)
- (2) F-θ □□ □□ f = 163mm. □□ □□ □□ □□ □□□□□□.
- (3) □□□ 1mm □ □□ □□□□ □□.

□□□ □□ (mm) □

PSH20 Scan Head

Focus on high end industrial laser applications

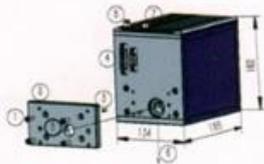


Mechanical Drawings



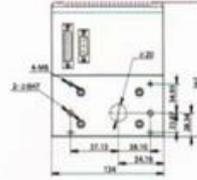
PSH20 scan head

- 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

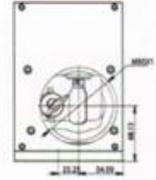


PSH20-H scan head

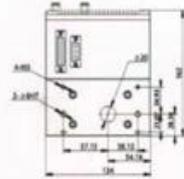
- Legend:**
1. Mounting screw holes (M5×12)
 2. Installation flange
 3. Dowel pin-hole (φ4×2)
 4. Electrical connector
 5. Beam in hole
 6. Beam out hole
 7. Cooling water in
 8. Cooling water out



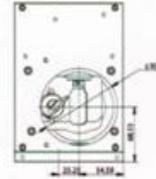
Beam In & Mounting Bracket



Beam Exit Side



Beam In & Mounting Bracket



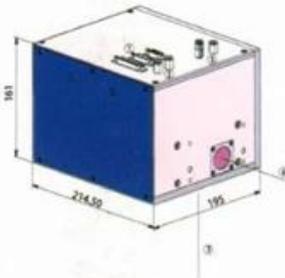
Beam Exit Side

PSH30 Scan Head

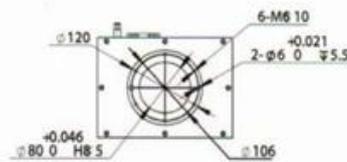
Focus on high end industrial laser applications



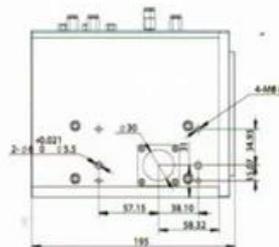
Mechanical Drawings



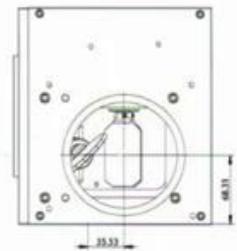
PSH30/PSH30-H scan head



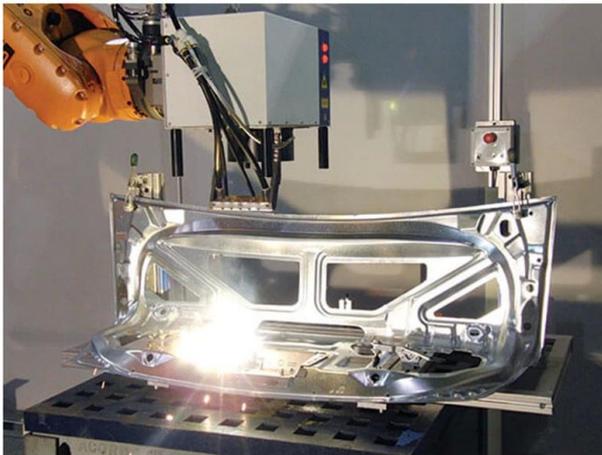
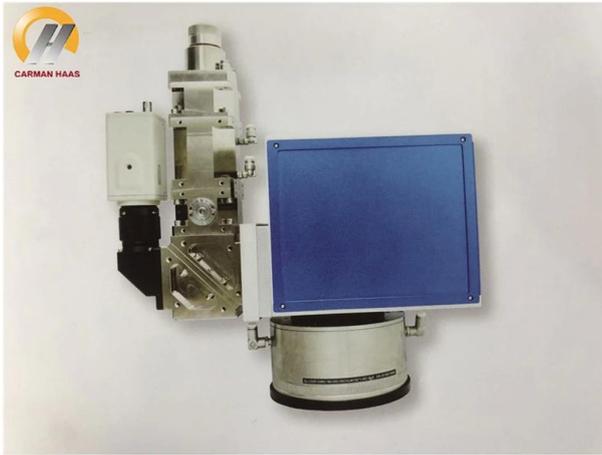
Installation flange



Beam In Side



Beam Exit Side



白车身 Body-in-White



Sun gear, Ring gear Viscous damper Synchronization ring



Differential gear Planetary carrier Flywheel



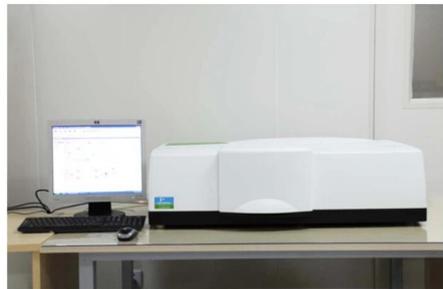
Recliner Backrest Seat Frame



Seat Track Assembly



TRIOPTICS OptiSpheric 2000 AF
---Testing EFL, R, Centering Error, Wedge Angle, BFL, MTF



PerkinElmer Lambda 950---Testing Transmission and Reflectivity



Carmanhaas Coating Machine





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>



Q1. 請提供公司名稱：

1. 請提供公司名稱及地址。

2. 請提供公司電話及傳真號碼。

3. 請提供公司網址。

4. 請提供公司負責人姓名及職位。

Q2. 請提供：

(1) 請提供公司常用運輸方式，如 DHL, UPS, 順豐, TNT, EMS, 等

(2) 請提供公司常用貿易條件，如 FOB, CNF, CIF 等。請提供公司常用貿易條件及公司名稱。

常見問題

Q1. 請提供公司名稱？

A1 : 請提供公司名稱及地址。

Q2. 請提供公司電話？

A2 : 請提供公司常用運輸方式，如 DHL, UPS, 順豐, TNT, EMS, 等。

Q3. 請提供公司網址？

A3 : 請提供公司常用貿易條件，如 FOB, CNF, CIF 等。

Q4. 請提供公司負責人姓名？

A4 : 請提供公司常用貿易條件，如 FOB, CNF, CIF 等。請提供公司常用貿易條件及公司名稱。

Q5. 請提供公司常用貿易條件？

A5 : 請提供公司常用貿易條件，如 FOB, CNF, CIF 等。

Q6. 請提供公司常用運輸方式？

A6 : 請提供公司常用運輸方式，如 DHL, UPS, 順豐, TNT, EMS, 等。

Q7. 請提供 OEM 及 ODM 服務？

A7 : 請提供公司常用貿易條件，如 FOB, CNF, CIF 等。請提供公司常用貿易條件及公司名稱。

Q8. 請提供公司常用貿易條件？

A8 : 請提供公司常用貿易條件，如 FOB, CNF, CIF 等。