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00 0 0 00 Carmanhaas Laser0 00 00 3D 0000 00 0000 0000000 0000000. 00 00 0 0000 00 0000 00000 0000 00000 00 3D 00 00 00000000 00000 00 0000 0000000. 3D 00 000000 00 0 00 00 200-500W 3D 00 0000 00 0000 000000 00 0 00 000000 0 00000 00 000000. 00 00 0000 00, 00 00 (00), 00 00, 00 00, 00 00 000000 (3D-00-00-00-00)



00 3D 0000 00 :

1. 1 0 00 : 00000 0 00 0000 0000 00000 00 0 0 00000.
2. 0000 0000 0000 00 00000 : 0000 00, 0000 00 00, 000000 00, 0,0 0 00 0000 0000 0 00000.
3. 00 00000 0000000000. 0000 00 0000 00000 00000 0000 0000 00 00 00000 00000 00 0 0000 00 0000 00 0 0 00000 00000 0 00 00 0 0000 0000 0 00000.
4. 000000 00 00 0 0000. 00 0 0000 00000 0000 00 0000 0000 0000 0000 0000 00 00000 00 00000 00 00000 000000 00 0000 000000.

Galvo □□ □□ □□ :

1. extremely □□ □□□□ (8 □□ □□□□ □□ □□□□ □□□□ $\leq 30 \mu\text{rad}$);
- 2.PSH14E : □□ □□□□ ($\leq 5 \mu\text{rad}$)
- 3.PSH14 : □□ □□ □□□□ ($\leq 3 \mu\text{rad}$), □□ (15m / s)
- 4.PSH20 : □□ □□ □□□□ ($\leq 3 \mu\text{rad}$), □□ (15m / s) □ □□□ (1KW)



□□□ □ □□ □□ :

Model	PSH14E	PSH14	PSH20
Maximum allowed average laser power (1)	200W	300W	500W
Damage threshold for pulsed operation(1)	30J/cm ²	30J/cm ²	30J/cm ²
Aperture	14mm	14	20
Effective scan angle(2)	±12°	±12°	±12°
Tracking Error	≤ 0.22ms	≤ 0.2ms	≤ 0.28ms
Step Response Time(1% of full scale)	≤ 0.5 ms	≤ 0.4 ms	≤ 0.7 ms
Speed			
Positioning / jump(3)	< 12 m/s	< 15 m/s	< 9 m/s
Precision marking speed(4)	< 2.5 m/s	< 3 m/s	< 2 m/s
Good Writing quality(3)(5)	600 cps	650 cps	450 cps
High writing quality(3)(5)	450 cps	500 cps	300 cps
Precision			
Linearity	99.8%	99.9%	99.9%
Repeatability	5 urad	3 urad	3 urad
Temperature drift			
Over 8 hours long-term offset drift (after 10min warm-up)	30 urad	30 urad	30 urad
Over 8 hours long-term gain drift (after 10min warm-up)	100 urad	80 urad	80 urad
Operating Temperature Range	25°C±10°C	25°C±10°C	25°C±10°C
Signal Interface	Analog: ±10V Digital: XY2-100	Analog: ±10V Digital: XY2-100	Analog: ±10V Digital: XY2-100
Input Power Requirement (DC)	±15V@ 4A Max RMS	±15V@ 4A Max RMS	±15V@ 4A Max RMS

□□:

1. □□□ □□ 1030-1090nm □ □□;
2. □□ □□ □□ □□ □□□□.
3. With f-theta objective f = 163mm. □□ □□ □□ □□ □□ □□ □□□□.
4. RepeAtibility □ □□ □□□□□ □□ □□□□□.
5. 1mm □□□ □□ □□□□ □□.





Aluminum Alloy Hydrazine Bottle Adapter

The product is thin in wall thickness with lattice structure inside, and the overall size is too large to be made by traditional manufacturing. However, precise laser forming technology can be integrated into one piece, with short manufacturing cycle and controllable deformation.



Stainless Steel Excellent Thermal-stable structure

The product is an Excellent Thermal-stable joint structure part for satellites with topological configuration and lattice structure inside. It was made of invar alloy which has low coefficient of linear expansion.



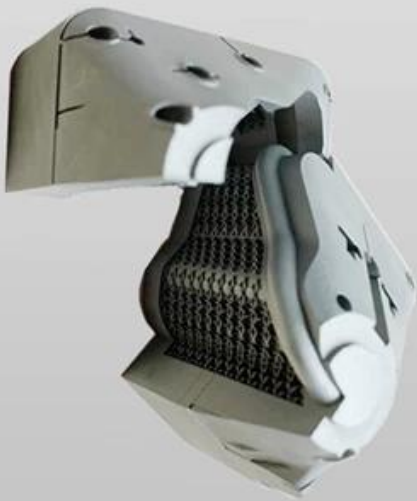
Breathable Steel Mold

The product is printed in one piece, with high precision of special-shaped structure and smooth surface roughness, which reduces the post procedures. Due to the light-weight process, the waste of material is significantly reduced compare to the traditional manufacturing.



Mobile Fixture Mold

The production and inspection jig of electronic products can be completed by laser forming. The product with high precision can be put into use by simple process which reduces the work-hour to only 10 hours. It is suitable for rapid iteration of R&D and trials as well as spare parts fast production. The light-weight design can be added into it for material save.

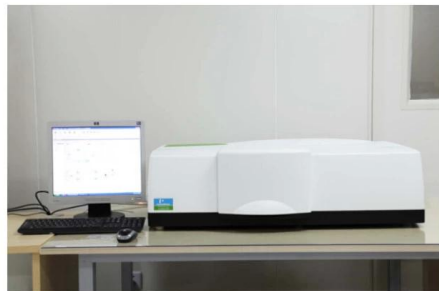


Light-weight water route mold

Conformal cooling water channels are distributed under the product surface, which improves the cooling efficiency and uniformity. Most areas of the parts are light-weighted design ,and reduce the overall weight by 24% which saves raw materials, shortens the production cycle, and reduces production costs.



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

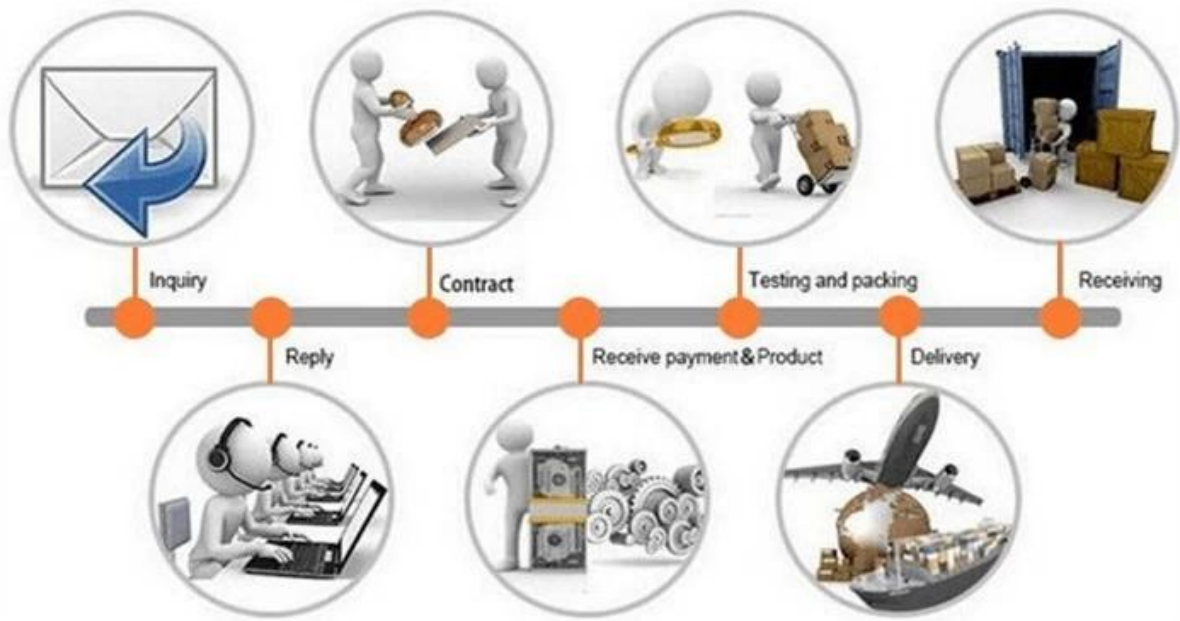


PerkinElmer Lambda 950---Testing Transmission and Reflectivity



Carmanhaas Coating Machine





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- 1 問) 〇 〇〇〇 〇〇〇〇 〇〇〇〇〇〇。
- 2 問) 〇〇〇 〇〇〇 〇〇 〇〇〇 〇 〇〇 〇〇 〇〇〇〇〇〇。
- 3 問) 〇〇〇 〇〇 〇 〇〇 〇〇〇 〇〇〇〇〇。
- 4 問) 〇〇 〇 〇〇 〇〇 〇〇〇 〇〇 〇〇〇 〇〇〇〇〇。

問 問:

- (1) 〇〇〇 〇〇 〇〇 〇〇〇 DHL, UPS, FedEx, TNT, EMS, ETS 〇〇〇 〇 〇〇〇〇。
- (2) 〇〇〇〇〇〇〇〇〇〇〇〇, 〇 〇 〇〇〇〇 be 〇〇 〇〇 ~ 〇 〇〇〇〇 ~ 〇〇 〇〇 FOB, CNF, CIF. 〇 〇〇〇〇〇〇 ~ 〇 〇〇〇〇〇〇〇 〇 ~ 〇 NS 〇〇〇〇〇〇〇〇〇〇〇〇 〇。

問問問 問

Q1. 〇〇〇〇〇 〇〇〇〇?

A1 : 〇, 〇〇〇 〇〇 〇〇〇 〇〇 〇 〇〇 〇〇〇 〇〇 〇〇〇〇〇 〇〇 〇 〇〇〇〇〇〇〇。

Q2. 〇〇〇 〇〇〇 〇〇〇?

A2 : 〇〇〇 〇〇〇 〇 QC 〇〇 〇〇 〇〇〇 〇〇〇 〇〇〇〇 〇〇 〇〇 〇, 〇〇 〇〇 〇 〇〇〇 〇〇〇〇 〇〇〇 〇〇〇 〇〇〇〇〇。

Q3. 〇〇〇 〇〇〇〇〇?

A3 : 〇〇〇 〇〇 〇〇〇〇 〇〇 〇〇〇〇 〇〇 〇〇〇〇〇 〇〇〇 〇〇〇〇〇。

Q4. 〇〇〇 〇〇〇〇〇〇〇〇?

A4 : 〇〇〇 〇〇〇〇〇 〇〇 〇〇 〇〇〇〇 〇〇 〇〇〇〇 〇〇〇 〇〇 〇〇, 〇〇, 〇〇 〇〇 〇 〇〇 〇〇〇〇〇。 〇〇〇〇〇。

Q5. May May Marching 〇〇〇 〇〇〇〇〇 〇〇 〇〇〇 〇〇〇〇〇〇〇?

A5 : 〇! 〇〇〇 〇〇〇 〇〇〇 〇〇〇〇 〇〇〇〇〇 〇〇 〇〇〇 〇〇 〇〇 〇 〇〇〇〇。

Q6. 〇〇〇 〇〇 〇 〇 〇〇〇〇?

A6 : 〇, 〇〇〇 〇〇〇 〇〇〇 〇〇〇 〇〇〇〇 〇〇 〇〇〇〇〇。

Q7. OEM 〇〇 ODM 〇〇〇 〇〇〇 〇 〇 〇〇〇〇?

A7 : 〇〇 OEM / ODM ORD 〇〇 〇〇 〇〇〇 〇〇 〇〇〇 〇〇 〇〇〇 〇〇〇〇.ers. 〇〇〇 〇〇〇〇 〇〇〇〇〇 〇〇〇〇 〇〇 〇〇 〇〇〇〇〇。

Q8. 〇〇〇 〇〇〇 〇〇〇〇〇〇〇?

A8 : 〇〇〇 〇 〇〇〇 〇〇〇 〇〇〇 〇〇 〇〇 〇 MOQ 〇〇 T / T 〇〇 〇 〇 〇〇〇〇。