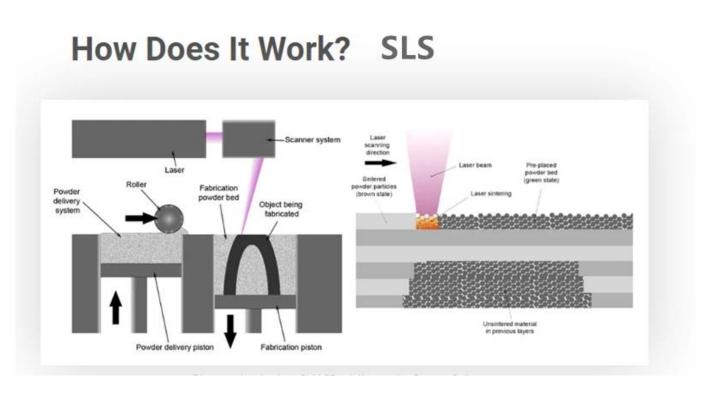
SLM (Selective laser melting) is a type of metal additive manufacturing or 3D printing. Often, the terms SLM and direct metal laser sintering (DMLS) are used interchangeably. However, the two technologies differ slightly, in that SLM melts pure metals while DMLS fuses metal alloys.

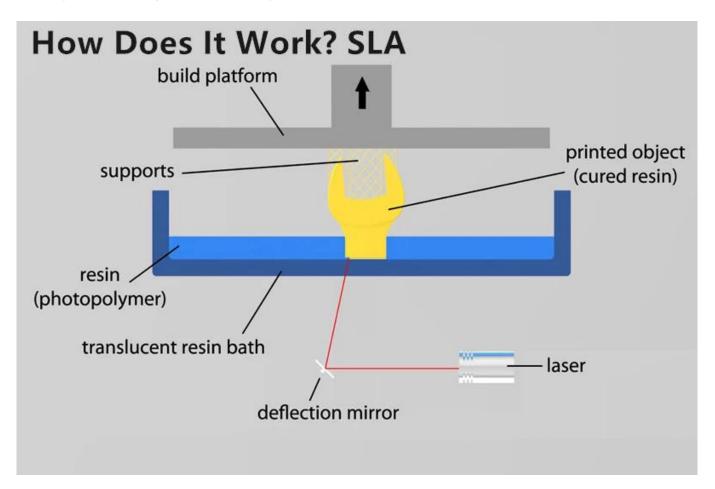
Additive Manufacturing Factory China SLM is one of the most exciting 3D printing technologies available today and is utilized both for rapid prototyping and mass production. The range of metal alloys available is fairly extensive. The end result has properties equivalent to those manufactured via traditional manufacturing processes.



China SLS Optical System Manufacturer SLS Printing uses selective CO₂ laser sintering technology which sinters plastic powders(ceramic or metal powders with binding agent) into solid cross-sections layer by layer until a three-dimensional part is built. Before making the parts, need to fill the build chamber with nitrogen and rise the chamber temperature. When the temperature is ready, a computer controlled CO₂ laser selectively fuses powdered materials by tracing cross-sections of the part on the surface of a powder bed and then a new coat of materiel is applied for the new layer. The working platform of the powder bed will go one layer down and then the roller will pave a new layer of the powder and the laser will selectively sinter the cross-sections of the parts. Repeat the process until the parts completed.



SLA (Stereolithography) is an additive manufacturing process that works by focusing an UV laser on to a vat of photopolymer resin. With the help of computer aided manufacturing or computer aided design(CAM/CAD) software, the UV laser is used to draw a pre-programmed design or shape on to the surface of the photopolymer vat. Photopolymers are sensitive to ultraviolet light, so the resin is photochemically solidified and forms a single layer of the desired 3D object. This process is repeated for each layer of the design until the 3D object is complete.



CARMANHAAS China 3D Printer Optical system Manufacturer could offer customer the

optical system mainly includes QBH optical module or Beam Expander, Galvo Scanner with F-THETA Lens or Dynamic optical scanning system with High speed \cdot High precision \cdot High quality function.

Product Features :

(1)Integrated design and optimization of the complete system to ensure that the impact of the entire optical system on M2 < 0.04;

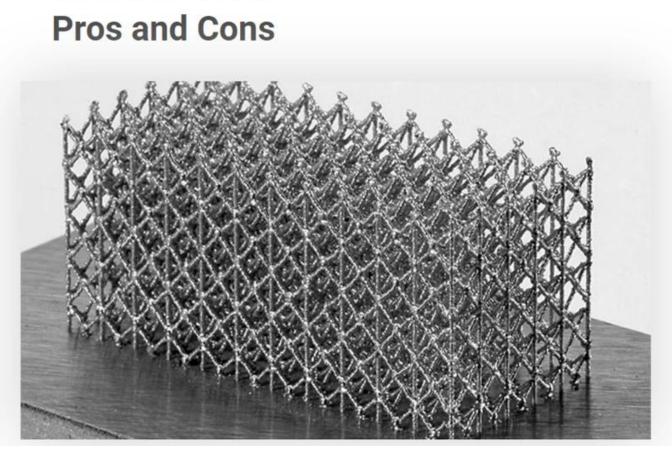
(2)The roundness within 1.5 times of the sharp length is greater than 93%;

(3) The damage threshold of the whole optical system is 50J/cm2, which can with stand 2000W Single Mode Laser;

(4)The focal spot size is more than 95% consistent across the entire frame;

(5)Low focus drift and good stability after long-term use;

SELECTIVE LASER MELTING (SLM)



Stainless Steel













Industrial SLS

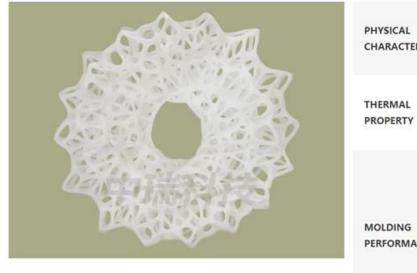
Desktop FDM

Industrial FDM

Desktop SLA

Industrial SLA

ZRPA12 (PA12 Nylon Powder)



Grain Size: 50~55µm
Shape: Spherical
Apparent density: ≥0.40 g/cm ³
Melting Point: 182~185°C (10°C/min)
Melting Enthalpy: ≥90 J/g
HDT: 83.8°C @1.8MPa / 146.1°C @0.45MPa
Density: 0.97 g/cm ^a
Tensile Modulus: 1600 MPa
Tensile Strength: 43 MPa
Elongation at break: ≥15 %
Un-notched Impact Strength: 20.7 KJ/m ²
Notched Impact Strength: 3.8 KJ/m ²
Bending Modulus: 1432 MPa
Bending Strength: 57 MPa

ZRTPU (Thermoplastic Polyurethanes Powder)



PHYSICAL CHARACTERISTICS		60µm Spherical 0.47 g/cm³
THERMAL PROPERTY	Melting Point: 165 HDT Heat deflection tem	
MOLDING PERFORMANCE	Density: Tensile Modulus: Tensile Strength: Elongation at break Tear strength: Bending Modulus:	101 N/mm 74 MPa
	Bending Strength:	3.3 MPa

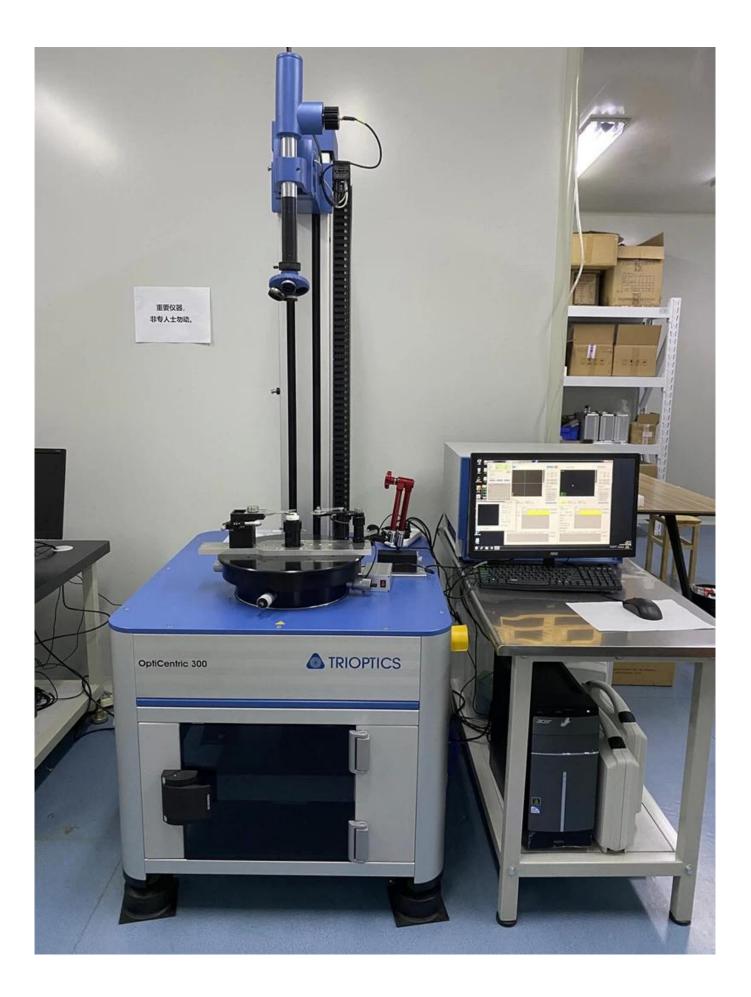
Co-Cr Alloy (MP1)

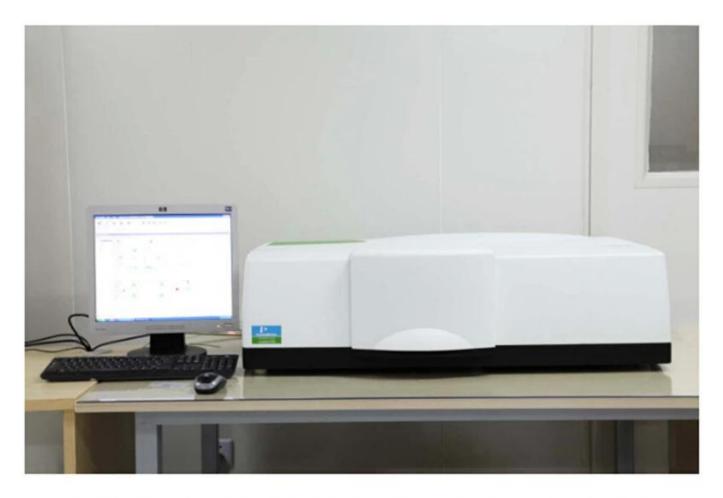


Factory









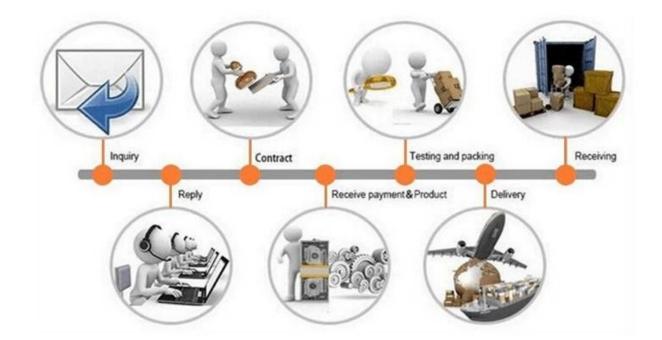
PerkinElmer Lambda 950---Testing Transmission and Reflectivity







Packing List





Return Policy:

Should returns be required:

- Step 1) Contact us with this website email.
- Step 2) Provide as much detail as possible about the problem you are having.
- Step 3) Authorization to return the item will be issued.
- Step 4) Return the item for the agreed replacement or refund.

Logistics:

(1)For Laser Optics order delivery, can be optional with DHL, UPS, FedEx, TNT, EMS, ets

(2)For Laser machine order delivery, can be optional with terms of EXWork FOB, CNF, CIF By Air or by Sea based on the buyer's forwarders or ours.

FAQ

Q1.Are you a manufacturer?

A1: Yes, we are professional and experienced manufacturer with our own molds and production lines.

Q2.How about quality of products?

A2: Our technicians and QC teams test the products one by one using aging line, professional devices and instruments to ensure the quality for all products.

Q3.How about price?

A3: We are a manufacturer and always offer our customers the most competitive prices.

Q4.How to place an order?

A4: Contact with online service, or sent email to us directly, we will reply to you with product price, specifications, packing etc. soon. Thank you.

Q5.May I send material to test marking performance?

A5: Yes! You are welcome to send material to test our superior quality and service.

Q6.Can I visit your factory?

A6: Yes, welcome to visit our factory at your convenient time.

Q7.How can I make OEM or ODM orders?

A7: We have different print processing for different OEM/ODM orders. Please contact us with online service or send email to us directly.

Q8. How should I pay for my orders?

A8: You can pay by T/T would be available for qualified bank and MOQ required for each order.