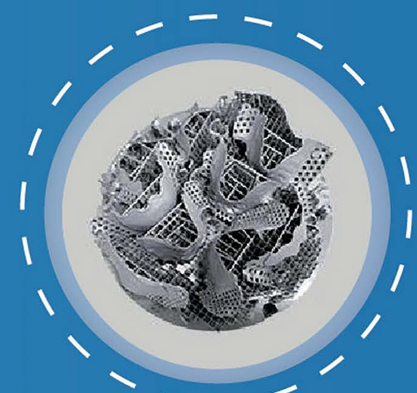
LODESTAR 3D
Building Factories of the Future

CHAMLION

Shape Confidence Innovate the Future

NCL-M150

Dental-Specific Metal 3D Printer



Exquisite & Convenient

High Output & Efficiency

Energy-Saving & Eco-Friendly

M150

01 Product Overview

- **Software Operation:** Proprietary full-suite 3D printing software, customizable for advanced functionality based on customer needs; supports one-click printing for simple and convenient operation.
- **Technical Advantages:** Features optional single or dual laser configuration for enhanced convenience, significantly improving precision and work efficiency; equipped with a grating scale in the powder cylinder to ensure precise and controllable powder delivery per layer.
- **Purification System:**The external purification system features cyclone dust removal, filter backflushing, and wet atomization functions, ensuring safe filter replacement, extending filter lifespan, while improving powder utilization efficiency.
- **Dust Filter:** Minimum dust removal rate of 99%, with a filter lifespan of approximately 1,500 hours.
- **Operational Efficiency:** Unattended operation significantly enhances dental product manufacturing efficiency by eliminating complex traditional processes and human errors. This enables a seamless transition from data to finished product, ensuring high-quality dental product output.
- **Printed Products:** Well-structured and compact, with high precision, excellent surface finish, and high density.

02 Technical Parameters

Item	Parameter
Max. Build Volume	Φ150mm×75mm
Laser Type	Fiber laser
Laser Power	500W×1; 300W×2
Optical Scanning System	F-THETA lens, high-speed scanning galvanometer
Max.Scanning Speed	7m/s
Beam Focus Diameter	40-70μm
Layer Thickness	20-100μm
Power Supply	AC200-240V 4.25KW
Min. Oxygen Content in Build Chamber	≤100ppm
Equipment Dimensions	1150×780×1700mm
Printing Material	Ti, Ti Alloy, Co-Cr, SS, High-Temp, Al, Cu, etc.
Equipment Weight	700Kg
Data Format	STL or other convertible standard formats
Software	Independent R & D
Equipment Features	High safety, excellent stability, energy-saving & eco-friendly APP monitoring, low production costs, exquisite & convenient

* All the description and specification aforementioned are subject to Chamlion's final explanation

03 Equipment Features

- **Structural System:** Optimized system design for a simpler, more rational structure.
- **Airflow Optimization:** Optimized airflow with positive pressure airflow design, further improving printing results and reducing powder waste.
- **Energy Saving &Environmental Protection:** using gas circulation system, low gas consumption.
- **Forming Cylinder Substrate:** Optimized leveling of the forming cylinder substrate, ensuring stability and eliminating the need for frequent recalibration.
- **Optical Path Layout:** Modular optical path layout, making single or dual laser configuration more convenient.

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