

Avimetal-MT170

Selective Laser Melting Equipment

10+ years' material innovation on Advantages

200+ materials forming support

Optimized choice for dentistry

High accuracy/Stable/Cost-efficient

Excellent process solutions

Open source equipment



High Quality Core Components Stable and reliable for a long time



Adjustable **Parameters**

Built-in parameters adjustable according to needs



Modular and **Compact Design**

Easy to assemble



Open-source **Parameters**

The parameters available for editing and directly use for customer



The Powder **Feeding Structure**

Accuracy of powder feeding,replacement of different metal powders



Real-time Monitoring

Real-time recording, output, self-diagnosis



Adaptable Rubber, hairbrush, high-speed steel, ceramic etc.



Custom Production

Support the special service for customer



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Application

Mass manufacturing of dental products such as frameworks and dental crowns









Dental Crowns (CoCrMoW)

Dental Crowns (NiCr)

Frameworks (Ti64 Gr23)

Frameworks (CoCrMo)

Technical Parameter

Materials	CoCr Alloys, Cp Ti and Titanium Alloys, NiCr, etc.
Build Size	φ 170mm×120mm (D×H) Customized: max 140mm~150mm (H)
Laser Type	500W Single/Dual Fiber Laser
Scanning System	High-speed galvanometer
Beam Focus System	F-theta field lens
Beam Quality	M ² < 1.1
Beam Focus Diameter	40~80μm (size adjustable)
Max Scanning Speed	7m/s

Layer Thickness	20~100μm
Powder spreading	One-way variable speed powder spreading
Gas Protection	Ar/N ₂
Oxygen Content	≤100ppm
Efficiency	15cm ³ /h (Single laser, related to the shape, size,material and parameters of the part)
	28cm ³ /h (Dual laser, related to the shape, size, material and parameters of the part)
Host Dimension	1400mm×800mm×1600mm (W×D×H)
Installation Dimension	3200mm×2400mm×2180mm (W×D×H)
Power Supply	AC220V
Power Consumption	7kW (single laser); 9kW (dual laser)

Materials

More than 200 kinds of alloys, such as MT - Cobalt-chromium alloy/Titanium alloy/High-entropy alloy/Refractory metal/High temperature alloy/Stainless steel/Die steel/Copper alloy

Process

Design&Modeling, Structure Optimization, Forming Process, Procedure Control, Heat Treatment, Surface Treatment, and Detection&Analysis, etc.

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