XH-M100G

High Power Green Laser for Precious Metals

The smallest build volume of Addireen, equiped with a green fiber laser, one of the first industrial green lasers on the market with a wavelength of 532nm. M100G features an innovative powder feeding structure and a convenient powder recovery system, which minimizes startup costs and reduces powder waste. It is ideal for processing precious powder, such as gold, platinum, and silver 925, with unparalleled quality and consistency, making it suitable for customized jewelry production. Additionally, it is compatible with highly reflective materials, refractory materials and their composite materials. M100G offers open-source printing parameters, making it an ideal tool for new material test and development.

Features

Green Laser Source for a Different Material Package

Equipped with parameters for precious powders, such as gold, platinum, and silver 925, as well as pure copper and copper alloys. It can also be applied to other reflective alloys and composite materials (e.g., Cu-based diamond composites, Cu-based graphene).

Innovative Powder Handling

The powder handling system is specially developed for applications that require small amounts of powder, such as jewelry with precious metals and lab tests for material or parameter development. This design minimizes machine operating costs.

Fine Laser Spot Size with Excellent Detail Resolution

The smaller laser spot size of 15 μm enables the creation of the finest structures.

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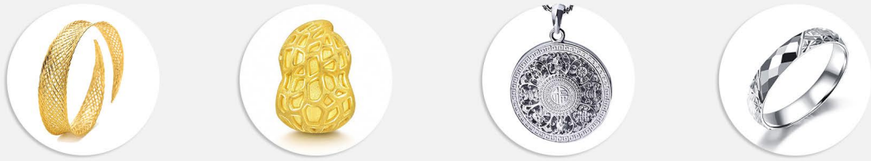
ADDIREEN
For a Greener Print

Applications

Jewelry Gold, platinum, silver



Material Development Copper(Cu), copper alloys, tungsten(W), tantalum(Ta), molybdenum(Mo), zirconium(Zr), niobium(Nb),chromium(Cr)

Machine Specifications

Model	XH-M100G
Build Volume(1)	Ø100*100mm
Laser Source	continuous single-mode green fiber laser, wavelength 532nm, 500W
Focus Diameter	15-30μm
Focusing system	F-theta lens focusing
Scanning Speed	Up to 8m/s
Layer Thickness	20-120μm
Machine Dimensions	1109*888*1893mm
Weight	Approx. 850KG
Materials	Gold, platinum, silver 925, refractory metals, composite materials (Cu-based diamond composite, Cu-based graphene)

Note : (1)Height for build plate is not included.

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