C R E A T E

2CREATE is an industry-leading 3D metal printer designed specifically for small and medium-sized parts. Whether you need to make implants, industrial parts or just for the flexibility of research and development, the 2CREATE can handle the job in a cost-effective, efficient, and high-quality way. With an open concept design, this 3D printer is compatible with powders from other manufacturers giving you the freedom to make a wide variety of parts without having to spend extra money.

Product Specification

Printer Specifications:

Process	Powder Bed Fusion
Machine Size	720 x 860 x 1790 mm, 450 kg
Build Envelope Size	110 x 110 mm
Reservoir Volume	110 x 200 mm
Laser Source	Fiber Laser 250 W
Precision Optics	F-Theta Lens
Power Supply	230 V / 1 – 50 / 60 Hz
Inert Gas	Nitrogen, Argon

Part Properties:

Max Part Size	100 x 100 mm
Typical layer thickness	20 µm – 40 µm (adjustable)
Materials	Steel, Cobalt Chrome, Titanium, Aluminium, Inconel

Software:

Print Prepartion	2BUILT
Data Files	STL, STEP, IGES, Object

proto3000
ISO 9001:2015

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one lab

Features of This Amazing System

2CREATE's 3D printer is significantly faster than its competing products, which is what makes it so attractive to its users. Its print files are in a transparent Gcode format, making printing 3D simple and straightforward. The coater rotates in only one direction, keeping dead wasted time to a minimum. While rotating, the coater picks up new powder while the laser process is still active, this is another way the 3D printer saves its users time and money. Once the process is completed, the build platform can immediately be coated with new powder so users can begin their next task.

Flexibility Through Its Open concept

Unlike many of our competitors, 2CREATE gives its users the ability to process powders for a variety of manufactures. This allows users to have one machine that can work with multiple forms of additive manufacturing needs. It also can vary the spot size and laser power during the process.

2Build

2OneLab is proud to present the new 2Build CAM software, the newest and most innovated tool for print data preparation, and the solution to all your 3D printing needs The strategy editor allows you to choose the right strategy for your powder from a large library of process parameters.

Parameter Development Feature

The CAM software 2Build has been designed to support the user in the development of process parameters for new powder types. It does so by plaining the process from start to finish, all on its own, automatically generating test patterns while defining the test parameters to the patterns. The analysis of the results is carried out automatically based on micrographs. In the end, the software calculates the perfect parameter sets for the powder under investigation.