



# Your AM Solution

The sophisticated ecosystem  
for metal 3d printing



We invent. You succeed.

**Phillips**  
**ADDITIVE**

**one**  
**lab**



# CREATE



A compact

## 3D metal printer

designed to produce complex parts



2Create user interface

## Features



### Fast material change

Change your powder within 20 minutes



### Plug & Play

Ready to start printing titanium & other alloys



### Instant printing

Ready to print in below 5 minutes (from 21% oxygen to below 1%)



### Extrem low running costs

Low energy consumption, long life and affordable filters, low maintenance concept

General		Optic	
Build volume	Ø 100 mm x 100 mm	Laser source / power	Yb fiberlaser / 250W
Reservoir volume	Ø 110 mm x 200 mm	Wavelength	1070nm
Coater	Rotation precision coater	Lens	Precision F-Theta lens
Inert gas	Nitrogen / Argon	Scan speed	up to 10 m/s
Layer thickness	20 - 100 µm	Spot size	min. 40 µm
Dimensions	720 x 860 x 1790 mm	Electronic	
Weight	450 kg	Power	230V, 10A 50/60Hz, 2.3kW

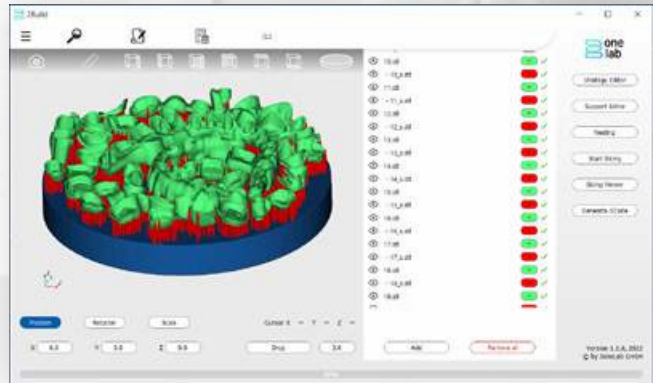


# BUILD

An innovative

## CAM software

developed for smart automation and optimization of your printing results



# Features



### Nesting

High-speed nesting saves valuable post-processing time



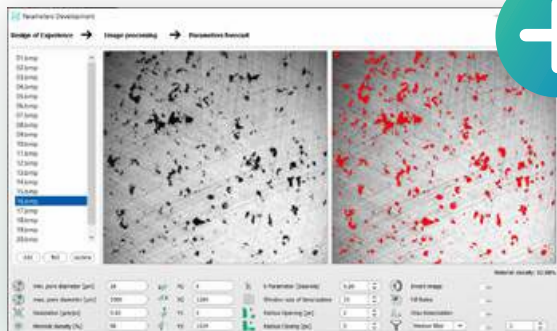
### Labeling

Advanced labeling for easy identification of parts



### Support generation

Sophisticated, fully automated support generation



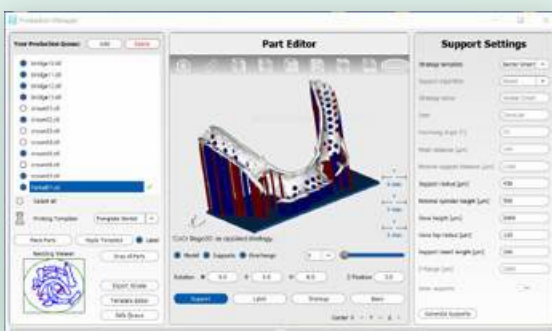
### Integrated analytic tool

- + Quickly develop new parameters
- + Automatic design of experiments
- + Integrated density evaluation with image analysis
- + Automatic calculation of optimal printing parameters



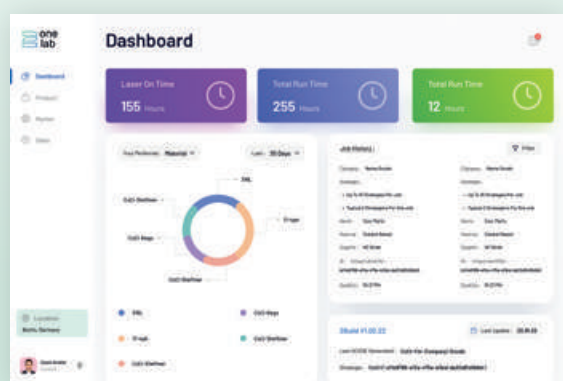
### Production manager

Boost your productivity & workflow optimization



### 2Connect

Control and monitor your AM ecosystem on one platform







## CREATE plus

The 2CREATE PLUS expands on the foundation laid by the 2CREATE, embodying a leap in production capacity for dental and broader industrial domains. Designed for higher volume printing while maintaining a compact footprint, it hosts a larger 150mmx150mm build platform and a potent 400W laser. This enables the efficient production of diverse parts in one go, significantly boosting your project's throughput. The 2CREATE PLUS, while retaining the open concept design for powder compatibility, offers enhanced productivity, making it an ideal choice for larger production runs and a wider range of industrial applications.

### Product Specification

#### Printer Specifications:

Process	Powder Bed Fusion
Build volume	150 x 150 mm, height 100 mm
Build Envelope Size	150 x 150 mm, height 200 mm
Coater	Linear coater
Inert Gas	Nitrogen/Argon
Layer thickness	30-80 $\mu$ m
Machine Size	720 x 860x 1790 mm
Weight	450 kg



#### Materials:

Cobald-based alloy	CoCr
Aluminum	AlSi10Mg
Iron-based alloy	316L, 17-4 PH
Nickel-based alloy	625, 718
Copper-based alloy	Bronze
Titanium	Ti6Al4V





## Applications

### Your challenge. Our solution.

**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.



80 crowns in CoCr in 4.30 h



Heat conductor in aluminium,  
built in 4.10 h



1 ring in 316L, built in 2.30 h



3 abutments in CoCr built in 3.20 h  
Post processing: connectors milling

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ADDITIVE**

**2one  
lab**


Learn from the AM experts

At 2oneLab, we are passionate about Additive Manufacturing and the ability to create. A group of passionate minds came together to reduce complexity in 3D printing and make it accessible to everyone.

**Phillips Machine Tools India Pvt. Ltd.**

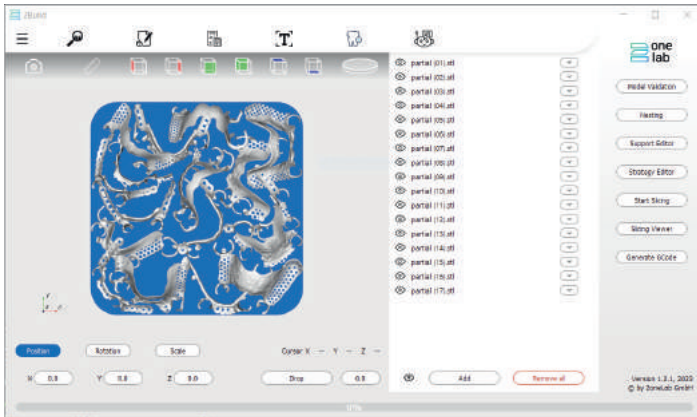
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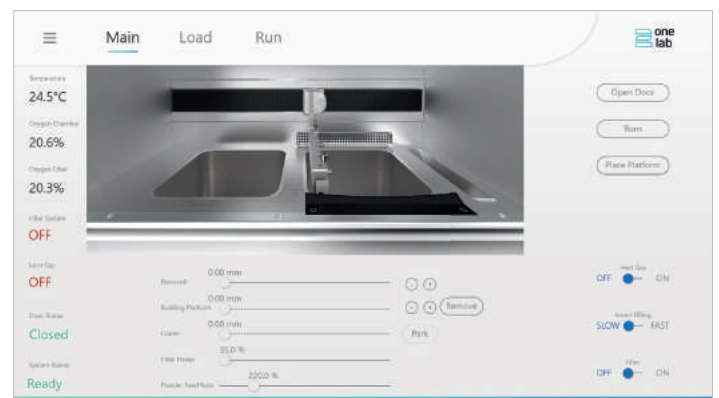
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Discover efficient 3D printing with 2BUILD on 2CREATE PLUS. Auto-nesting enables mixing RPDs with crowns or bridges on one platform. Utilize lattice supports for RPDs minimizing warping, and rod supports for crowns ensuring a perfect surface finish, all in a single print session. This feature amplifies productivity while maintaining the impeccable quality, making 2CREATE PLUS a hub for diverse dental applications.

The 2Create PLUS user interface makes setup and use easy. Manage the whole printer using just three tabs. The clear software layout and step-by-step guides make complex tasks simple, helping you learn fast and become a system expert quickly. If you run into issues, the 2oneLab team can help remotely.



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