

## Binder Jetting Metal 3D Printer : CZ400™



**High precision, high stability, ideal for fast small-batch production of medium-sized parts.**

- **Build Chamber:** L400 × W250 × H200 mm (L15.75 × W9.84 × H7.87 in)
- **Build Volume:** 20 liters
- **Max Build Rate:** 1440 cc/hour
- **Layer Height:** Adjustable from 30~200µm

The **CZ400™** is a cutting-edge addition to the Plus series of Metal Binder Jetting 3D Printers, designed for high-demand, rapid batch production of small to medium-sized parts. Building on the Pro series, it features the latest motion components and production platform for unmatched stability, precision, and efficient production management.

### **ZPro Solutions LLP**

3, Swastik Apartment Gulmohar path, Law College Rd, Pune, Maharashtra 411004

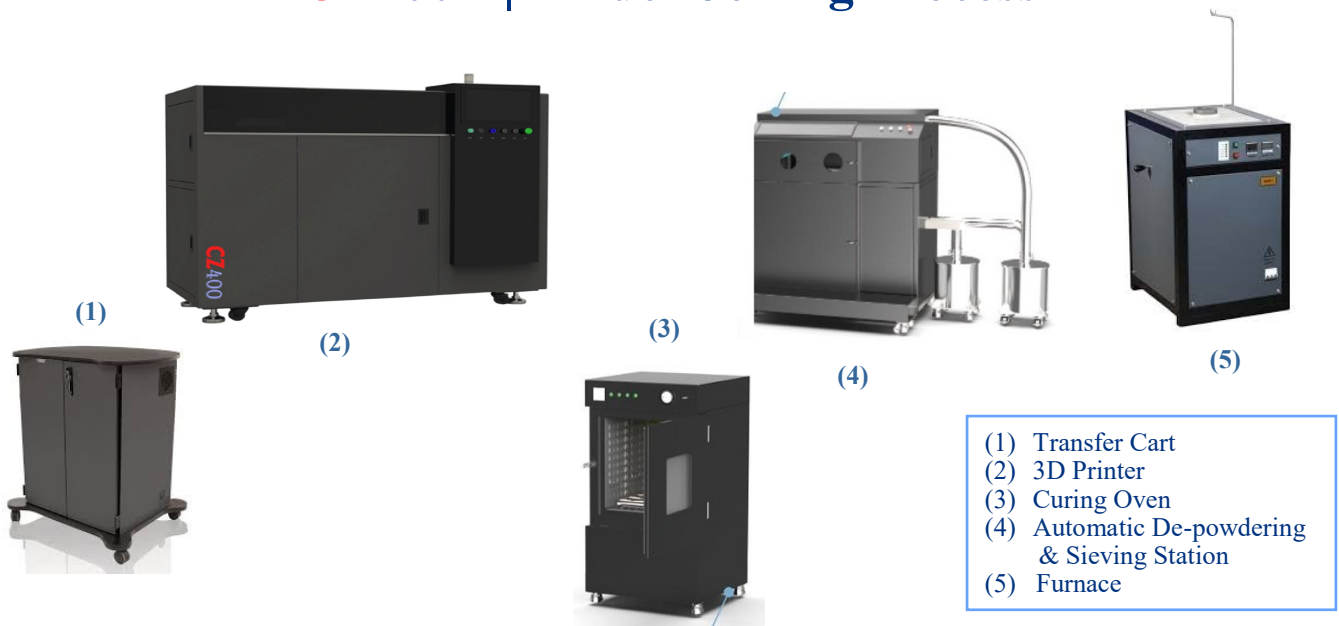
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## **CZ400<sup>TM</sup> | Binder Jetting Process**



### **Technical Specifications :**

Specification	Technical Details
Model	CZ400
Build Space (mm)	L400 * W250 * H200 mm
Dimensions (mm)	L1756 * W809 * H1504.5 mm
Part Accuracy	± 0.05 mm
Printing Speed	10-16 seconds/layer
Layer Thickness (mm)	Adjustable from 0.03 to 0.1 mm
Powder Feeding Method	Sieving and compacting top powder feeding, compatible with various powder morphologies
Printing Method	One-pass printing with simultaneous powder recoating and printing for high efficiency
Build Box Fixing Method	Negative pressure, replaceable build box
Number of Printheads	Piezoelectric printheads, printhead width equals the width of the build box
Resolution	Printhead NPI: 600; Printing resolution: 1200
Software Supported Formats	STL, 3MF
Power Requirement	Single-phase, 220V, 10A, 50HZ
Materials	Titanium alloy, iron-based powder, copper powder, stainless steel powder, etc.

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## Slicing Software | EZ Create™

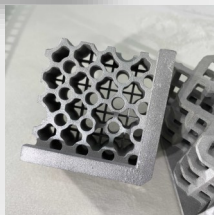
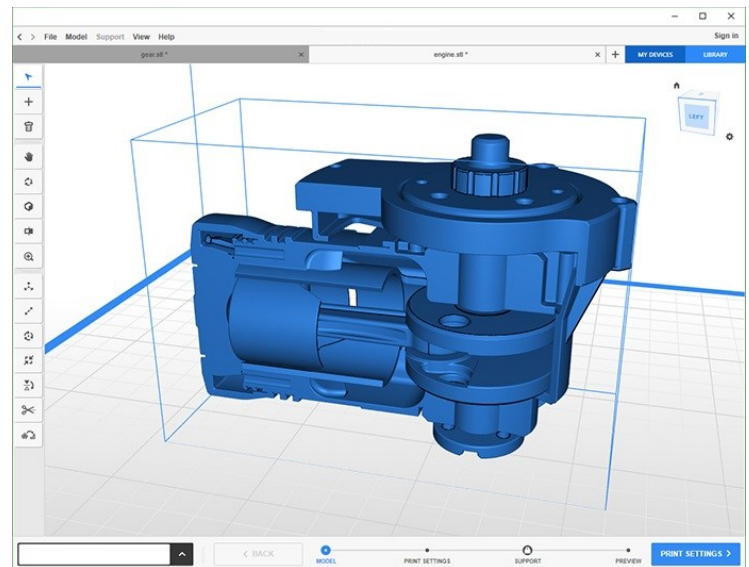


### MATERIAL VERSATILITY

- 17-4PH Stainless Steel
- 304L Stainless Steel
- 316L Stainless Steel
- 420 Stainless Steel
- Inconel 625
- Inconel 718
- Titanium Alloys
- Tool Steel
- Copper
- Tungsten Powder

Enhanced by EZ Create™ software, our system offers:

- Stable high-speed data transmission and storage
- Real-time parameter customization
- Swift slicing for rapid preparation
- Online RIP for precise ink control
- Complimentary software updates for ongoing enhancements



## Binder Materials Portfolio

- **PhenolSol**

A solvent-based binder with viscosity that demonstrates excellent compatibility with both metallic powders.

- **HydroBond**

A water-based resin binder that exhibits exceptional performance with metallic and non-metallic powders.

- **CleanBond**

An advanced binder formulation that leaves behind minimal carbon, making it ideal for metallic powders sensitive to carbon presence.

- **NanoBond**

Our ongoing research and development efforts focus on incorporating nanoparticles into the binder formulation.

This innovative approach aims to enhance part quality.

Stay tuned for future updates on this exciting development.

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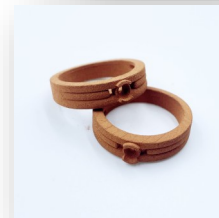
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## Industrial Applications of **CZ400™** :

- Aerospace
- Automotive
- Hydraulics
- Art and Sculpture
- Defense and Military
- Dental and Orthodontics
- plumbing and fixtures
- Foundry and Casting
- Electronics
- Jewelry
- Medical and Healthcare
- Metal Injection Molding (MIM)
- Pumps and Valves
- Education and Research



## Why **CZ400™**

### Flexibility

With our lineup of MBJ systems, we provide exceptional design flexibility, enabling versatile customization to suit a variety of requirements.

### Material Diversity

Benefit from our extensive selection of qualified materials. Tailor your metal prints to specific application requirements and stay ahead with our continuous development of new materials.

### Lightweight Solutions

Optimize designs with internal lattice structures, delivering sturdy parts while reducing material consumption and overall weight. Ideal for aerospace, automotive, and other industries seeking enhanced energy efficiency and performance.

### High Efficiency

Embrace the speed and efficiency of metal binder jetting for rapid production, streamlining your manufacturing process.



**ONSITE SUPPORT**

### Skilled Professional



### IN-HOUSE IT TEAM



*We Indigenously develop and manufacture products faster and Sustainably*

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