ALTFORM

PRINT 100 SERIES

POWDER BED FUSION

Efficient metal AM for research and prototyping

- **Compact footprint,** high-performance results
- **Open parameters** for full process freedom
- **Safe powder handling** and external depowdering
- Optional **blue laser** for reflective materials

Compact precision for research, development, and high-value metal parts

The Print 100 Series brings advanced metal additive manufacturing into a **compact**, **accessible platform**. Designed for precision applications and research environments, it delivers industrial performance in a **small footprint**. Available in **two configurations**: Print Sharp 100 (**infrared laser**) and Print Blue 100 (**blue laser**), it covers a wide range of materials, from standard alloys to highly reflective and precious metals. The **blue laser configuration** represents a true technological breakthrough, enabling stable and efficient processing of **copper**, **gold**, and **precious metals**: a new frontier in metal additive manufacturing.

SMART OPERATION AND EASY WORKFLOW

A detachable build area allows **external depowdering** and quick changeovers. **Top-loading** and optional **closed powder-handling accessories** keep operations clean and safe, with no direct operator contact.

AI-DRIVEN USER EXPERIENCE

The **AI-powered Human-Machine Interface** ensures intuitive operation and reliable performance. It offers **real-time process optimization**, **AI guidance**, and **remote access**, making it ideal for labs, universities, and small-scale production environments.

FLEXIBLE RESEARCH AND MATERIAL FREEDOM

With **open parameters** and a fully **configurable architecture**, the Print 100 Series is the perfect platform for experimentation and innovation. AltForm can tailor each system for **specific materials**, laser wavelengths, or process controls, creating **dedicated setups** for dental, medical, or research environments. From infrared to blue laser technology, it gives users the freedom to explore **new materials**, refine parameters, and drive real innovation in metal additive manufacturing.

Print SHARP 100
IR Laser

Print BLUE 100
Blue Laser

Build volume	Ø 130 x 130 mm (Print Sharp) - Ø 130 x 100 mm (Print Blue)
Laser type	Yb 200 / 300 / 500W IR (Print Sharp) - 400W Blue (Print Blue)
Laser beam diameter	60 µm, on focus (Print Sharp) - 150 µm, on focus (Print Blue)
Layer thickness	20 - 80 µm
Build rate	up to 50 cm^3/h
Power supply	220 V / 32 A / 50 Hz
O_2 level monitoring	Below 100 ppm (0.01%)
Shielding gas	Nitrogen, Argon
Dimensions	1100 (W) x 600 (D) x 1800 (H) mm
Weight	1000 kg