

*ALTFORM

PRINT 400 SERIES



POWDER BED FUSION

Large-scale precision
for industrial manufacturing



Dual or quad laser
configurations



Extended build volume
up to 1000 mm Z-axis



AI-powered HMI
with virtual assistant



Advanced automation
for rapid changeovers

Turning large-scale ideas into industrial reality

With a standard build volume of **420 × 420 × 450 mm** and an **XL version reaching 420 × 420 × 1000 mm**, the Print 400 series brings **large-scale additive manufacturing** to the factory floor.

Available in two configurations: Print Genius 400 (dual laser) and Print Brilliance 400 (quad laser), it delivers the flexibility and power needed for full-scale industrial production.

HIGH PRODUCTIVITY AND PROCESS EFFICIENCY

The Print 400 Series integrates **automation-ready architecture** for non-stop production.

Its **automatic chamber extraction system** allows external depowdering and parallel setup, minimizing downtime between builds. Customizable **powder management options**, from semi-automatic to closed-loop inert systems, ensure clean, efficient, and safe operation in demanding industrial environments.

INTELLIGENT CONTROL AND CONNECTIVITY

Equipped with AltForm's **AI-powered Human-Machine Interface**, the Print 400 Series offers **real-time optimization**, **AI-driven assistance**, and **predictive maintenance**. Its **blockchain-based traceability** and **remote monitoring** capabilities guarantee complete control and visibility across production workflows.

SMART FILTRATION THAT KEEPS PRODUCTION MOVING

A fully **gas-tight filtration system** ensures consistent chamber conditions while minimizing gas consumption. Through **full passivation**, reactive residues are neutralized safely, eliminating the need for chemical agents and reducing maintenance costs: ideal for 24/7 production environments.

AUTOMATION AND SCALABILITY

Designed for integration, the Print 400 Series can be connected with **robotic handling systems** and **centralized powder management solutions** to form automated production lines. AltForm's expertise in automation turns each system into a connected, scalable, and high-efficiency manufacturing platform.



Print GENIUS 400

Dual Laser



Print BRILLIANCE 400

Quad Laser



Also available in
XL Version
Z = 1000 mm

Build volume	420 x 420 x 450 mm / 1000 mm (XL) - Removable working chamber
Laser type	2 or 4 x Yb 500 / 700 / 1000W IR single mode (100% overlap)
Laser beam diameter	80 µm (on focus) - Beam shaping available on request
Layer thickness	20 - 120 µm
Build rate	up to 4 x 100 cm ³ /h
Power supply	380 V / 50 Hz / 25 kW / 32A
O ₂ level monitoring	Below 100 ppm (0.01%)
Shielding gas	Nitrogen, Argon
Dimensions	3900 (W) x 2100 (D) x 2500 (H) mm / 3900 (H) in XL version
Weight	6000 kg (standard) / 8000 kg (XL)



WWW.ALTFORM.COM

INFO@ALTFORM.COM