



Studio System™

Office-friendly, affordable metal 3D printing.
Designed for engineers.



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An end to end process



Print

The Studio printer extrudes bound metal rods, shaping the “green part” through Bound Metal Deposition™. This process is similar to the safest and most widely-used 3D printing process—Fused Deposition Modeling (FDM) and eliminates safety concerns associated with metal 3D printing.



Debind

The green part is transferred to the Studio debinder where it is immersed in Desktop Metal’s proprietary debinding fluid. The primary binding material is removed in order to prepare the part for sintering. The debinder is safe for use in an office environment and does not require any external ventilation.



Sinter

The Studio furnace heats parts to just below their melting point, fusing metal particles to form fully dense parts without residual stresses introduced in laser-based processes. Fully automated and sized to fit through a doorway, the furnace delivers industrial-strength sintering in an office-friendly package.

Printer specs

Build volume
w 30 x d 20 x h 20 cm
(12 x 8 x 8 in)

Max part dimensions (post-shrink)
w 25.5 x d 17 x h 17 cm
(10 x 6.7 x 6.7 in)

Print heads
Dual, quick-release print heads

Minimum layer height
50 µm

Heating
Heated build area & plate

Platform
Cloud, browser-based

Debinder specs

Max fluid volume
17.4 liters (4.6 gallons)

Vapor management
Closed-loop low emission design, no external exhaust vent required

Footprint
w 102 x d 74 x h 58 cm
(40 x 30 x 23 in)

Platform
Cloud, browser-based

Furnace specs

Heating
Hybrid; microwave + conventional; Five sides

Peak temperature
1400 °C (2552 °F)

Footprint
w 138 x d 75 x h 162 cm
(64 x 55 x 30 in)

Platform
Cloud, browser-based