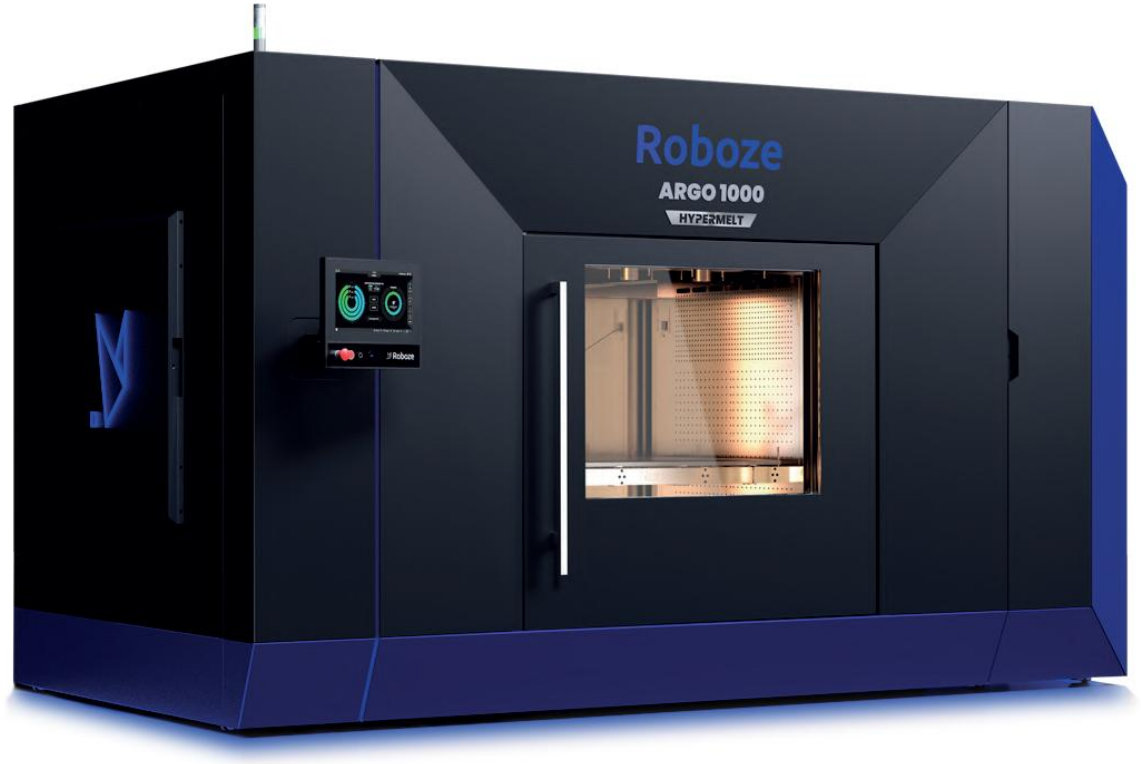
ROBOZE ARGO 1000 HYPERMELT

ARGO 1000 Hypermelt- Technical datasheet - ENG [02]

Revision Date: 02.2026



1. DIMENSIONS

External	4500mm x 2350 mm x 2150 mm | 177 in x 92.52in x 84.6in
Build volume	1000mm x 1000mm x 1000mm | 39,37in x 39,37in x 39,37in
Machine Weight	4500 kg | 9920 lb

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2. MECHANICS

Structure	High-performance structure made of aluminum bars and steel cover
Linear system	Precision ball linear bars in ground steel
X and Y axis movement	Mechatronic movement with C5 hardened helical rack and pinion
Z axis movement	Precise C6 ball screw system
Feeding system	Continuous feeding system with integrated pellet drying and material level monitoring via load cell.

3. ELECTRONICS

Control System	PLC (Programmable Logic Controller)
Motors	High-performance motors Brushless for precise movement
Peak Power Absorbed	20 kW [1]

[1] Value extrapolated during chamber heating from room temperature (RT) to 180°C.

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Average Power Absorbed	17.2 kW[2]
Certifications	CE, UL Certified [3]
Electrical Supply	400Y / 230 VAC, 50 / 60 Hz, 3PH+N+PE, 50 A[4]
Electrical Transformer	Required for the US market
Plug/Bare Wire	IEC 60309, 32 A (3P+N+PE / 6H)[5]
Display	Large, user-friendly interface, Display Touch Screen

4. CONNECTION

OPC-UA	Industrial communication protocol support
Connectivity	USB Type B output, WiFi & Ethernet connectivity

2 Value extrapolated during printing with a heated chamber up to 180°C.

3 Main panel

4 Solidly Grounded Wye System Only

5 Bare wire connection for the US

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5. MATERIALS

CARBON PEEK CF30[6]

CARBON PAEK

PEEK[6]

ULTEM™ AM9085F

CARBON PA PRO

ABS RED

6. SLICING SOFTWARE

Proprietary	SlizeR

7. PRINTING PROCESS

Dual High-temp extruder	Dual pellet extruder with extrusion temperature up to 450 °C. IDEX mode configuration
Bed leveling	Automatic bed mesh leveling for thermal-expansion compensation
Heated chamber	Heated chamber up to 180 °C

[6] Only single extruxion profile under develpment

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Material presets	Preset material configurations
Continuous feeding	Automatic continuous material feeding system
Monitoring and print report	Live monitoring and recording of components, consumables, and process data automatically logged into a part specific print report

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