ROBOZE ARGO 500 HYPERSPEED

ARGO 500 HS- Technical datasheet - ENG [07]

Revision Date: 02.2026



1. DIMENSIONS

External	1935mm x 1436mm x 2375 mm | 76.2in x 56.5in x93.5in
Build volume	500mm x 500mm x 500mm | 19.7in x 19.7in x 19.7in
Shipping Box	2100mm x 1700mm x 2430mm | 87.8inx68.9inx96.9in
Machine Weight	1500 kg | 3307 lb

2. ACCURACY

XY	10 µm | 393.70 µin
Z	25 µm | 984.25 µin

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3. 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
HT Dryers	No. 4 HT dryers reaching up to 120 °C
Filament loading	Automatic filament loading system
Filament monitoring	Automated filament monitoring by fiber optic sensor and mechanical encoder

4. ELECTRONICS

Control System	PLC (Programmable Logic Controller)
Motors	High-performance motors Brushless for precise movement
Peak Power Absorbed	9.6 kW [1]
Average Power Absorbed	6.2 kW[2]

[1] Value extrapolated during chamber heating from room temperature (RT) to 175°C.

[2] Value extrapolated during printing with a heated chamber up to 175°C.

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Certifications	CE, UL Certified [3]
Electrical Supply	400Y / 230 VAC, 50 / 60 Hz, 3PH+N+PE, 25 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, 13" Display Touch Screen

5. PNEUMATICS

Pressure	Minimum pressure required: 6.2 bar / 90 psi
Air	Maximum consumption at full load: 420 L/min (7 L/sec) (15 CFM).
Vacuum system	Vacuum system for adhesion of polymeric sheets on inox steel buildplate
Moisture control	Industry top class dew point sensor and membrane filter

6. CONNECTION

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

[3] Main panel

[4] Solidly Grounded Wye System Only

[5] Bare wire connection for the US

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7. MATERIALS

CARBON PEEK

PEEK

ULTEM™ AM9085F

CARBON PA PRO

KRONOS B2

KRONOS S1

PP PRO

8. ON DEMAND MATERIALS

PEKK

STRONG-ABS NATURAL

STRONG-ABS RED

FUNCTIONAL-NYLON

ULTRA-PLA NATURAL

ULTRA-PLA BLACK

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9. SLICING SOFTWARE

Proprietary	SlizeR
Commercial	Simplify3D

10. PRINTING PROCESS

Patented tool change system	Patented hardware and software system that reduces tool change time to <10s
Dual pinch extruder	New extruder feeding system with dual pinch for high-speed printing
High-temp dual extruder	Dual extruder with extrusion temperature up to 500 °C
Bed leveling	Automatic bed mesh leveling for thermal-expansion compensation
Heated chamber	Heated chamber up to 180 °C
Material presets	Preset material configurations
Continuous feeding	Automatic continuous material feeding system
Live monitoring and print report	Live monitoring and recording of components, consumables, and process data automatically logged into a part specific print report
Clog detection	Automatic clog detection with encoder

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