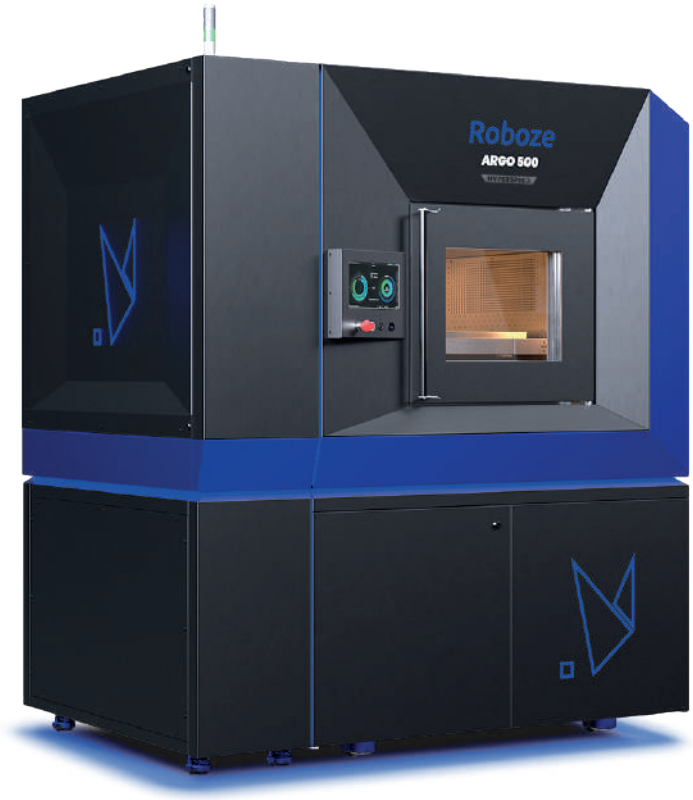
ROBOZE TECHNICAL DATASHEET

ARGO 500 Rev 3.0 - Technical datasheet - ENG [03]

Revision Date: 02.25

Roboze



ARGO 500 Hyperspeed

Dimensions

External	1935mm x 1436mm x 2375 mm | 76.2in x 56.5in x 93.5in
Build volume	500mm x 500mm x 500mm | 19.7in x 19.7in x 19.7in 2100mm x
Shipping Box	1700mm x 2430mm | 87.8x68.9x96.9 in
Machine Weight	1700 kg | 3748 lb

Accuracy

XY: 10 µm | 393.70 µin

Z: 25 µm | 984.25 µin

Distributed by

Learning Labs, Inc.

1-800-334-4943

www.LLI.com

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Electronics

High Precision Brushless Motors

11" Display touch screen

Max power absorbed: 17.5 kW

Average power absorbtion : 5.5kW Value extrapolated during an ULTEM AM9085F print

CE, UL Certification

Electrical Supply: 400Y / 230 VAC, 50 / 60 Hz, 3PH+N+PE, 25 A

(Solidly Grounded Wye System Only)
Electrical transformer is needed for the US market

Plug: IEC 60309, 32 A (3P+N +PE / 6H)
Bare wire for the US

Materials

CARBON PEEK

PEEK

PEKK*

CARBON PA PRO

ULTEM™ AM9085F [NATURAL/GRAY*]

STRONG-ABS [NATURAL*/RED]

FUNCTIONAL-NYLON*

KRONOS B1

PP PRO*

ULTRA-PLA *[WHITE/BLACK]

KRONOS S1

KRONOS S2

*guaranteed with old configuration

Roboze

Printing Process

- Patented hardware and software system that reduces tool change time <5s;
- New extruder feeding system with dual pinch that allows high printing speed;
- Ultra sensitive clog detection ;
- Dual Extruder with extrusion temperature up to 500 °C | 932 °F;
- Automatic Bed Mesh levelling with 25 checkpoints;
- Heated chamber up to 180 °C | 356°F;
- Automated filament monitoring by optical sensors;
- Presetted materials configurations;
- Automatic continous material feeding system;
- Components, consumables and process data live monitoring and recording;

Slicing Software

SlizeR

Roboze

General mechanics

- High performance structure made of aluminium bars and steel cover;
- System with precision balls linear bars in ground steel;
- Mechatronic movement of X and Y axes with C5 hardened helical rack and pinion;
- Z movement with a system of precise C6 ball screw;
- Components and supports from CNC mechanical precision; machining
- Vacuum system for the adhesion of the polymeric sheets;
- Build plate auto-leveling system;
- Door lock security system;
- N. 4 HT Dryer reaching temperature up to 120 °C | 248 °F with filament autoloading (N. 2 for part materials and N. 2 for support materials);
- Auxiliary pneumatic system with an air pressure control;
- Membrane filter for drying materials.

Content

Materials welcome kit
Filament , Extruder and Builsheet to start printing

Tool Welcome kit
PPE, basic maintenance tools and spare part

Connection

OPC-UA

USB output type B

Connettività WiFi & Ethernet

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