ROBOZE DATA SHEET
TDS.A5.03

3D-MODEL

Roboze ARGO 500

DIMENSIONS

External	(X)1935 x (Y)1436 x (Z)2375 mm / 76,2x56.5x93.5 in
Build volume	(X)500 x (Y)500 x (Z)500 mm / 19.7x19.7x19.7 in
Optional build volume	(X)300 x (Y) 250 x (Z)500 mm / 11.8x7.9x19.7 in
Shipping Box	(X)2100 x (Y)1700 x (Z)2430 mm / 82.7x66.9x95.7 in
Weight	1700 kg / 3748 lb

ACCURACY

XY: 10 µm/393.70 µin — Z: 25 µm/984.25 µin

RESOLUTION

Quality Profile: 0.225 mm/0.009 in — Speed Profile: 0.300 mm/0.012 in

PRINT SPEED

5000 mm/min - 197 in/min

ELECTRONICS

High Precision Brushless Motors

11" Display touch screen

Power Absorbed: 10,5 kW Machine max + 1 kW per Dryer

Current consumption: 21 A max

Heating resistances: 7,2 kW

Dryers: up to 4 x 1 kW

Heated chamber up to 180 °C/356°F

Electrical Supply:
- Europe: 15kVA / 400 V AC / 50 Hz
- America: 15kVA / 400 V AC / 60 Hz

Connector: IEC 60309, 32 A (3P+N+PE / 6H)*

**The American connectors are provided as needed, according to specific conditions*

MATERIALS

PEEK	FUNCTIONAL-NYLON	ULTRA-PLA
CARBON PEEK	STRONG-ABS	
ULTEM™AM9085F	PP	
CARBON PA	PC-LEXAN™ AMHI240F	
FLEX-TPU	ABS-ESD	

EXTRUDER MECHANICS

- High thermal efficiency extrusion block
- Extrusion temperature up to 450 °C/842 °F
- Tip2-B - 0,4 mm and 0,6 mm/0.016 in and 0.24 in
- Tip2-HA - 0,4 mm and 0,6 mm/0.016 in and 0.24 in
- Tip3-HSA - 0,4 mm and 0,6 mm/0.016 in and 0.24 in
- Compressed air cooling system
- Automatic filament loading

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
- Mobile components and aluminium supports from CNC mechanical precision machining
- Vacuum system for the adhesion of the polymeric films
- Build plate auto-leveling
- Door lock security system
- HT Dryer integrated with temperatures up to 120 °C/248 °F with autoloading of the filament
- Controlled chamber with forced ventilation
- Auxiliary pneumatic system

CONTENT

USB flash drive	Screwdriver
Thickness gauge	Blister of Multi-Purpose Grease
Safety goggles	Blister of HT Grease
Safety gloves	Buildplate seal
Metallic spatula	Nozzle brush
3,0 mm (1/8”) key wrench	Panels keys
Gasket for buildplate's reduction	Nipper
N. 2 caps for teflon tube (Tip2)	

SLICING SOFTWARE

Roboze Slicing Software

COMMUNICATIONS

USB output type B

WiFi & Ethernet connection

EMEA HEADQUARTER

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USA HEADQUARTER

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