

Roboze ARGO 500



DIMENSIONS

External	(X)1523x(Y)1392x(Z)2375 mm / 60.0x54.8x93.5 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)1700 x (Y)1700 x (Z)2430 mm / 66.9x66.9x95.7 in
Weight	1500 kg / 3310 lb

ACCURACY

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

Quality Profile: 0.225 mm/0.009 in	Speed Profile: 0.300 mm/0.012 in
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PRINT SPEED

5000 mm/min - 197 in/min

ELECTRONICS

Stepper Motors with High Resolution Encoders

Adaptive micro-stepping Stepper Drivers

7" Display touch screen

Power Absorbed: 9 kW Machine max + 1 kW per Dryer

Current consumption: 19 A max

Heating resistances: 6 kW

Dryers: up to 4 x 1 kW

Temperature sensors in the extruder and heated chamber

Heated chamber up to 180 °C/356°F

Electrical Supply:

- Europe: 14kVA / 400 V AC / 50 Hz

- America: 14kVA / 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	

SLICING SOFTWARE

Simplify3D

COMMUNICATIONS

USB output type B

WiFi & Ethernet connection

EMEA HEADQUARTER

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USA HEADQUARTER

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