



Roboze ARGO 500

Dimensions

External	(X)1935x(Y)1436x(Z)2375 mm / 76,2x56.5x93.5 in
Build volume	(X)500x(Y)500x(Z)500 mm / 19.7x19.7x19.7 in
Optional build volume	(X)300x(Y)250x(Z)500 mm / 11.8x7.9x19.7 in
Shipping Box	(X)2100x(Y)1700x(Z)2430 mm / 87.8x68.9x96.9 in
Machine Weight	1700 kg / 3748 lb

Accuracy

XY:10µm / 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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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: 15 kVA / 400 V AC / 50 Hz
 - America: 230V 3-phase + N + GR*
*A transformer is needed for the USA

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

Materials

PEEK	CARBON PA	PP
CARBON PEEK	FLEX-TPU	ULTRA-PLA
HELIOS™ PEEK 2005	FUNCTIONAL-NYLON	ABS-ESD
ULTEM™ AM9085F	STRONG-ABS	SOLUBLE SUPPORT
BREAKAWAY SUPPORT		

Printing process

High thermal efficiency extrusion block
Extrusion temperature up to 500 °C / 932 °F
Double Extruder - Nozzle: 0.4 mm and 0.6 mm / 0.016 in and 0.024 in
Automatic continuous material feeding system
Automatic Double Extruder calibration
Filament monitoring
Easy management of printing parameters customizable according to the material
Print functionality management based on the active user profile
Components, consumables and process data live monitoring and recording
Remote control
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
N. 4 HT Dryer integrated with temperatures up to 120 °C / 248 °F with autoloading of the filament (N. 2 for part materials and n. 2 for support materials)
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 Allen key	Panel keys
Cutter nipper	2 kg spool of ULTRA White
Extruder Tip2-B 0.4 mm	Pack of 10 buildsheets for PLA
Utility Knife	Syringe with blunt needle
Grease gun	

Slicing software

Prometheus

Communications

USB output type B

WiFi & Ethernet connection

API