

Designtech[®]

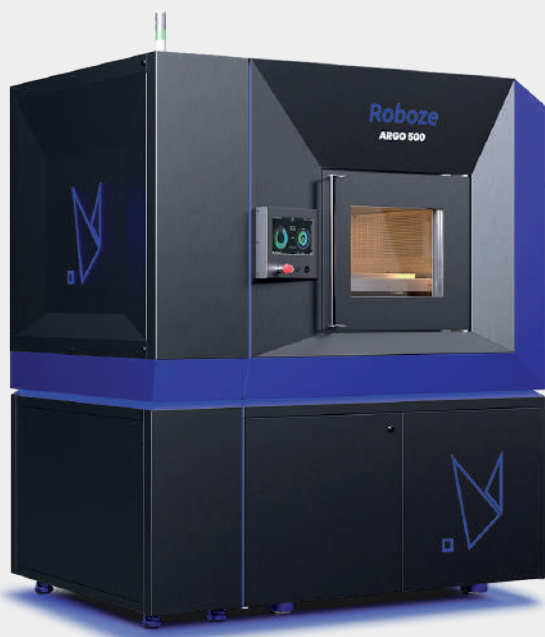
In collaboration with:



ARGO 500

3D Printer Brochure

ADDITIVE DESIGN LAB



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	Speed Profile
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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* <small>*A transformer is needed for the USA</small>
Plug: IEC 60309, 32 A (3P+N +PE / 6H)* <small>*Bare wire for the USA</small>

Materials

PEEK	FLEX-TPU	KronoS B1
CARBON PEEK	FUNCTIONAL-NYLON	KronoS S1
ULTEMTM AM9085F	STRONG-ABS	
CARBON PA PRO	PP PRO	
PEKK	ULTRA-PLA	

Printing process

High thermal efficiency extrusion block
Extrusion temperature up to 500 °C / 932 °F
Tip2-B - 0.4 mm 0.6 mm 0.8 mm / 0.016 in 0.024 in 0.031 in
Tip2-B-FLEX - 0.4 mm 0.6 mm / 0.016 in 0.024 in
Tip2-HA - 0.4 mm 0.6 mm 0.8 mm / 0.016 in 0.024 in 0.031 in
Tip3-HSA - 0.4 mm 0.6 mm 0.8 mm / 0.016 in 0.024 in 0.031 in (HVP)
Tip4 - 0.4 mm 0.6 mm 0.8 mm / 0.016 in 0.024 in 0.031 in
Automatic continous 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 temperature at 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-PLA

Extruder Tip2-B 0.4 mm

Pack of 10 buildsheets for ULTRA-PLA

Utility Knife

Syringe with blunt needle

Grease gun

Slicing software

Simplify3D

Communications

USB output type B

WiFi & Ethernet connection

OPC-UA

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