



Roboze One PRO

Dimensions

External	(X)790x(Y)690x(Z)1660 mm / 31.1x27,16x65,35 in
Build volume	(X)300x(Y)250x(Z)200 mm / 11.8x9.8x7.9 in
Shipping Box	(X)1030x(Y)1030x(Z)2070 mm / 40.5x40.5x81.5 in
Machine Weight	280 kg / 620 lb

Accuracy

XY:15 µm / 590.55 µin	Z:25µm / 984.25 µin
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Resolution

Quality Profile	Speed Profile
	UltraFAST Profile

Electronics

Stepper Motors with High Resolution Encoders
Stepper Driver with heat sinks
3.5" Display touch screen
Installed Power: 1800W + 1100W Dryer
Temperature sensors in the extruder and the building plate
Build plate heated up to 100°C / 212°F
200 to 240 V AC (±10% max), 50 / 60 Hz
Current consumption: 12.5 A Max

Materials

CARBON PA PRO	FUNCTIONAL-NYLON	ULTRA-PLA
FLEX-TPU	STRONG-ABS	PP

Extruder mechanics

High thermal efficiency extruder block with 1 extruder

Extrusion temperature up to 300°C / 572°F

Tip2-B - 0.4 mm / 0.016 in	Tip2-B FLEX - 0.6 mm / 0.024 in
Tip2-B - 0.6 mm / 0.024 in	Tip2-HA - 0.4 mm / 0.016 in
Tip2-B - 0.8 mm / 0.031 in	Tip2-HA - 0.6 mm / 0.024 in
Tip2-B FLEX - 0.4 mm / 0.016 in	Tip2-HA - 0.8 mm / 0.031 in

General mechanics

Electro-galvanized steel frame and cover

C50 hardened and chromed steel brass for X and Y supports

High precision ball sleeves for X and Y linear motion

C7 ball screw nut seat with aluminum flexible spider shaft coupling to absorb vibrations from Z motor

Mechatronic movement of X and Y axes with C5 hardened helical rack and pinion

Mobile components and aluminum supports from CNC mechanical precision machining

Vacuum system for the adhesion of the polymeric films

Build plate auto-levelling

Integrated HT Dryer at 120°C / 248°F with automatic filament loading

Auxiliary pneumatic system

Content

USB flash drive	Screwdriver
Thickness gauge	3,0 mm Allen key
Safety goggles	Blister of HT Grease
Safety gloves	Panel keys
Metallic spatula	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	

Slicing software

Simplify3D

Communications

USB output type B

WiFi & Ethernet connection

API