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In collaboration with:



# Plus PRO

3D Printer Brochure

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*ADDITIVE DESIGN LAB*



# Roboze Plus PRO

<b>Dimensions</b>	External	(X)790x(Y)690x(Z)1910 mm / 31.1x27,16x75,2 in			
	Build volume	(X)300x(Y)250x(Z)220 mm / 11.8x9.8x8.7 in			
	Shipping Box	(X)1030x(Y)1030x(Z)2070 mm / 40.5x40.5x81.5 in			
	Machine Weight	300 kg / 660 lb			
<b>Accuracy</b>	XY:15 µm / 590.55 µin	Z:25µm / 984.25 µin			
	<b>Resolution</b>	<table border="0"> <tr> <td>Quality Profile</td> <td>Speed Profile</td> </tr> <tr> <td>UltraQUALITY Profile</td> <td>UltraFAST Profile</td> </tr> </table>	Quality Profile	Speed Profile	UltraQUALITY Profile
Quality Profile	Speed Profile				
UltraQUALITY Profile	UltraFAST Profile				
<b>Electronics</b>	Stepper Motors with High Resolution Encoders				
	Stepper Driver with heat sinks				
	5" Display touch screen				
	Installed Power: 1800W + 1100W Dryer				
	Temperature sensors in the extruder and the building plate				
	Build plate heated up to 150°C / 302°F				
	200 to 240 V AC (±10% max), 50 / 60 Hz				
	Current consumption: 12.5 A Max				

## Materials

PEEK	FUNCTIONAL-NYLON	ULTRA-PLA
CARBON PEEK	STRONG-ABS	FLEX-TPU
CARBON PA PRO	PP PRO	
PEKK	TOOLINGX CF	

## Extruder mechanics

High thermal efficiency extruder block with 1 extruder

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 - 0.25 mm | 0.4 mm | 0.6 mm / 0.009 in | 0.016 in | 0.024 in (HVP)

Compressed air cooling system for HVP extruder

## 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
Blister of Multiuse Grease	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

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