The entry level of high performance additive manufacturing

Roboze Plus PRO

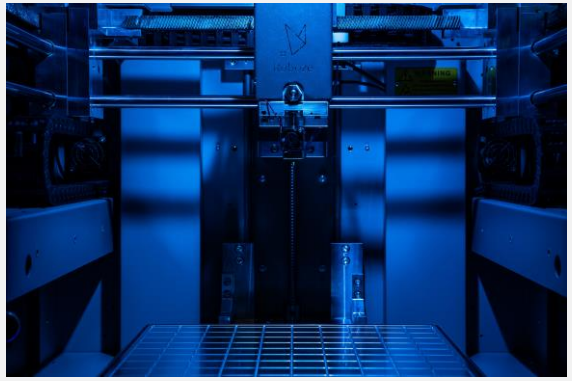
Roboze

Metal Replacement like you have never seen it before

Roboze Technology

Accuracy and Repeteability

Roboze's **patented gear motion system**, the **Beltless System**, has always been synonymous with repeatability and accuracy. The **Roboze Plus PRO** guarantees **printing precision of 0,59 mil** (15 µm) and repeatability of the printed parts

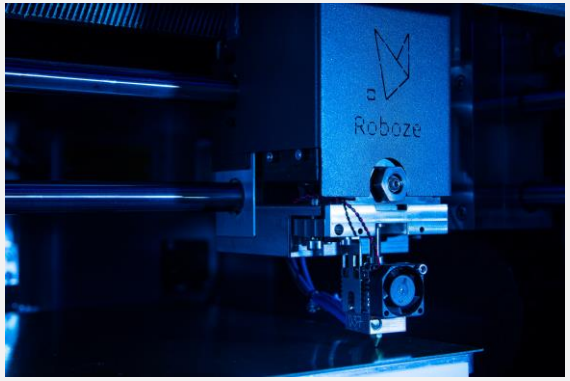


Process Automation

The **complete automation** of all stages of the process reduces manual operations. From **the loading** of the material to the **self-calibratio**n of the build plate. Achieve the best by doing less.

Ultra Quality and Ultra Fast Production

Produce **ultra-detailed** components in **PEEK** and **CARBON PEEK and ToolingX CF** with the **UltraQUALITY** profile. If you need equipments to accelerate the digitization of your warehouse, with the **UltraFAST profile** you get parts **up to 2x faster** than any other system on the market both in **Carbon PA** and **Ultra PLA**.



#PrintStrongLikeMetal

Professional Series

Roboze Solution

Roboze Plus PRO

The entry level of high performance additive manufacturing

Functional prototyping and small series production with the widest range of superpolymers on the market

HIGH-PERFORMANCE MATERIALS

ULTRA QUALITY & ULTRA FAST PRODUCTION

REPEATABILITY OVER TIME

15 µm POSITIONING ACCURACY

#PrintStrongLikeMetal

Professional Series

Roboze Solution

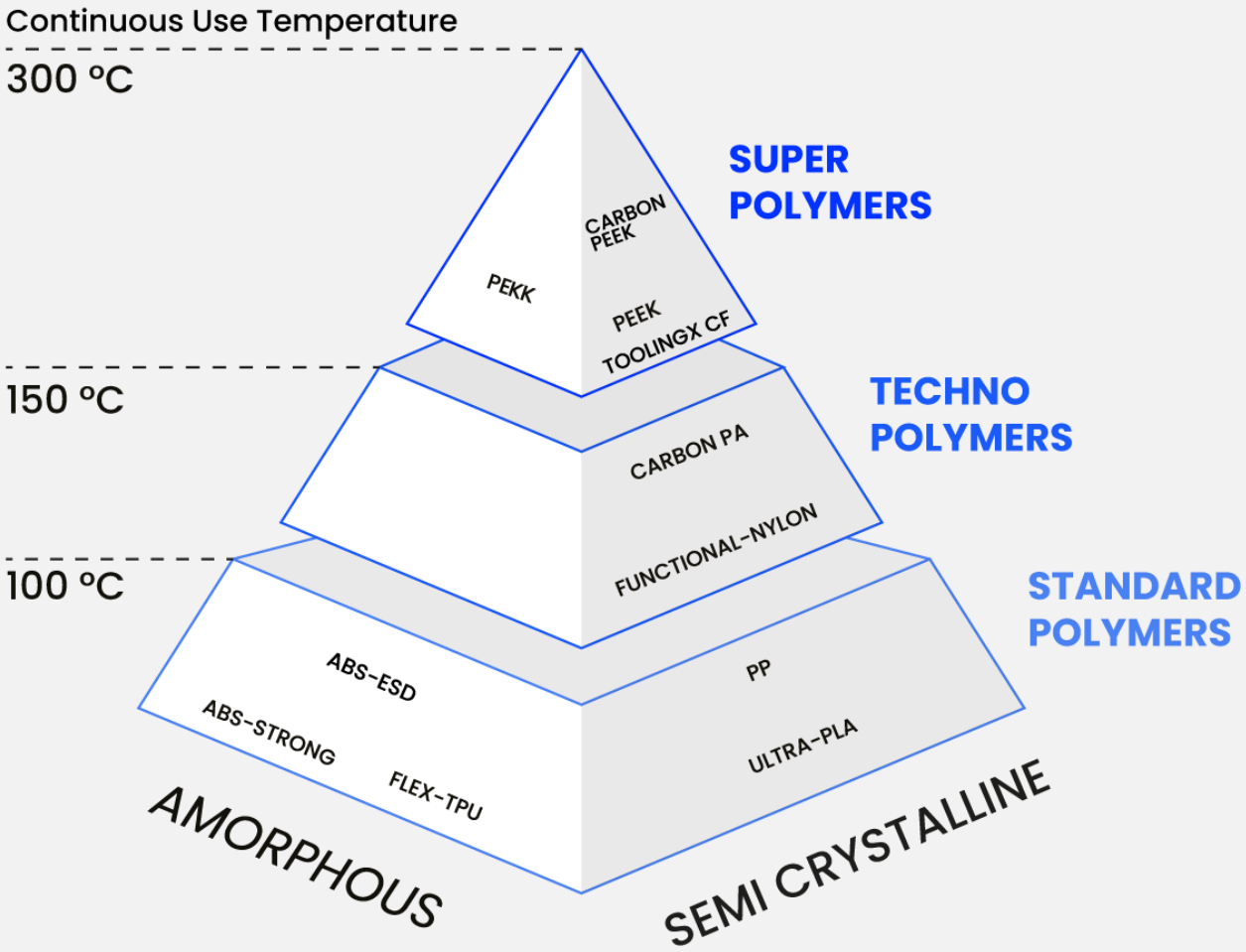
#PrintStrongLikeMetal

	Professional Series
	Roboze Plus PRO
Build volume	300 x 250 x 220 mm 11.8 x 9.8 x 8.7 in
Extruder temperature	500 °C / 932 °F
Bed Temperature	150 °C / 302 °F
Vacuum System	Yes
Accuracy	XY: 15 µm / 590.55 µin Z: 25 µm / 984.25 µin
Resolution	Quality Profile Ultra Quality Profile Speed Profile Ultra Fast Profile
MATERIALS	
ULTRA-PLA	X
STRONG-ABS	X
FUNCTIONAL-NYLON	X
ABS-ESD	X
FLEX-TPU	X
PP	X
CARBON PA	X
PEEK	X
CARBON PEEK	X
PEKK	X
TOOLINGX CF	X

Roboze

Roboze Material

Engineered for Production



#PrintStrongLikeMetal

Super polymers and composite materials

Roboze Materials

PEEK
Polyether ether ketone

Extreme chemical resistance

High thermal resistance

Self lubricating

Continuous Use Temperature
Test Method: ASTM D3045
Value: **250°C**

Carbon PEEK
PEEK + Carbon Fibers

High compression strength

High mechanical properties

Ideal for metal replacement in the most extreme environments.

HDT (load 1.82MPa)
Test Method: ASTM D648
Value: **250°C**

Carbon PA
PA + Carbon Fibers

High tensile strength

High tensile modulus

Good thermal resistance

Tensile Strength
Test Method: ASTM D638
Value: **93 MPa**

PEKK
Polyetherketoneketone

Low crystallization rate

Excellent printability

Good interlayer adhesion

Flame Retardand
Test Method: UL94
Value: **V0**

TOOLINGPRO CF
PPS + Carbon Fibers

High stiffness

Chemical resistance

Low surface resistivity

Water Absorption
Test Method: ISO 69
Value: **<0.05%**

#PrintStrongLikeMetal

Mid-range polymers

Roboze Materials

PP
Polypropylene

High chemical resistance, bump
Electric insulation properties.

FUNCTIONAL-NYLON
Polyamide 6

Low wear and low friction coefficient
Good chemical and mechanical resistance

ABS-ESD
ABS + Carbon Nanotubes

Electrostatic discharge protection with a surface resistivity of 10^7 Ω (the typical range is 10^6-10^9 Ω)

FLEX-TPU
Thermoplastic polyurethane

Abrasion resistance
High elasticity and good hardness
Atmospheric agents resistance

STRONG-ABS
Acrylonitrile-butadiene-styrene

Good processability
Impact resistance
Low water absorption

ULTRA-PLA
Polylactic Acid

High surface quality
Easy to print
Sustainable and hypoallergenic

#PrintStrongLikeMetal

Roboze 3D Printing to be competitive and generate profits

Industrial Production Challenges

PAPER PULP MOULD

MANUFACTURING

TOOLINGX CF

810 g

157,5€

29 h 45 min

20% Infill

ACTUATION PLATE

ELECTRICAL

PEKK

140 g

151€

7 h 6 min

100% Infill

#PrintStrongLikeMetal

Keep in touch

BARI, IT

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