

Ultra-fast printing of prototypes and equipment

Roboze One Xtreme



**GORDIUSZ
ALFA**

Célhoz az eszköz

Accelerate the production phase of your equipment, from days to just a few hours

Roboze Technology



Accuracy and Repetability

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



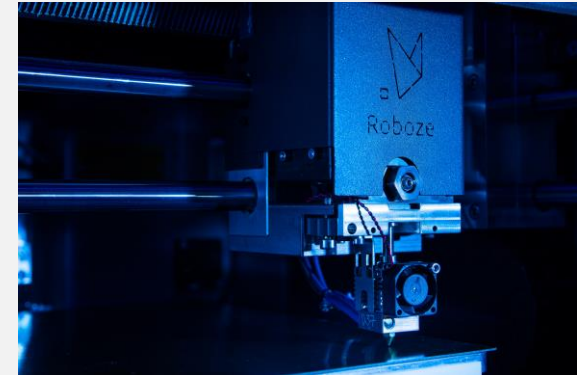
Quick Setup Process

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



Ultra Fast Production

The **Ultra Fast** profile developed for the Xtreme systems allows production of components in **Carbon PA, and PA** with carbon fiber two times faster than any other solution on the market.





Roboze One Xtreme

Ultra fast printing of prototypes and equipment

Speed, tolerances and repeatability guaranteed with a solid and industrial 3D printing system

**HIGH-PERFORMANCE
MATERIALS**

**ULTRA FAST
PRODUCTION**

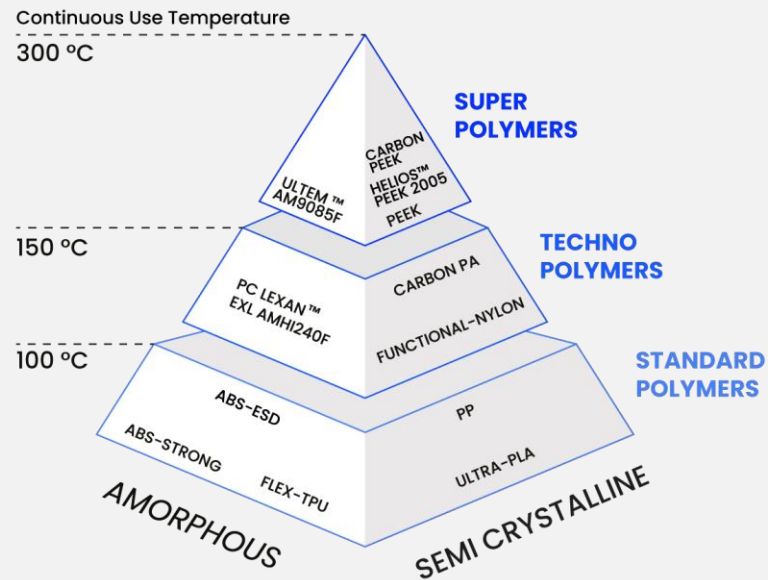
**REPEATABILITY
PROCESS OVER TIME**

**15 μ m POSITIONING
ACCURACY**

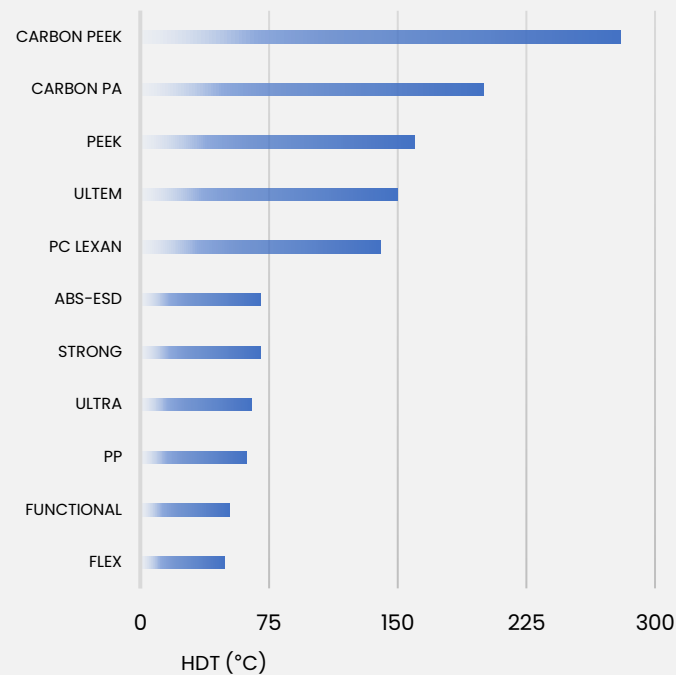
Roboze Solution



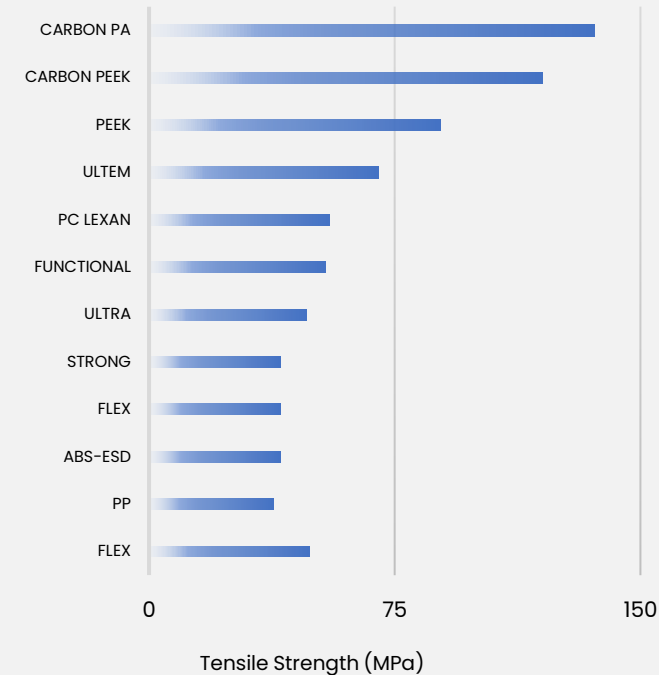
Professional Series	
Roboze One Xtreme	
Build Volume	300 x 250 x 200 mm
	11.8 x 9.8 x 7.9 in
Extruder Temperature	300 °C / 572 °F
Vacuum Plate	Yes
Accuracy	XY: 15 µm / 590.55 µin
	Z: 25 µm / 984.25 µin
Resolution	Quality Profile: 0.18 mm / 0.007 in
	Speed Profile: 0.24 mm / 0.009 in
	Ultra Fast Profile: 0.36 mm / 0.014 in
MATERIALS	
ULTRA-PLA	X
STRONG-ABS	X
FUNCTIONAL-NYLON	X
ABS-ESD	X
FLEX-TPU	X
PP	X
CARBON PA	X



1. High-Heat resistance



2. Mechanical Properties



Roboze Materials



Carbon PA
PA + Carbon Fibers

High tensile strength
High tensile modulus
Good thermal resistance



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 $10^7 \Omega$ (the typical range is 10^6 - $10^9 \Omega$)



PP
Polypropylene

High chemical resistance, bump and abrasion.
electric insulation properties.



FLEX-TPU
Thermoplastic polyurethane

Abrasion and fatigue resistance
High elasticity and good hardness
Atmospheric agents and ozone 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

Roboze 3D Printing to be competitive and generate profits

Industrial Production Challenges

SOFT VICE JAWS

MANUFACTURING



FLEX-TPU



36.14 g



7 €



3 h 6 min

20% Infill



SLIDING BRACKET

MANUFACTURING



CARBON PA



207 g



36 €



4 h 40 min

60% Infill



Our official reseller:



**GORDIUSZ
ALFA**

www.gordiuszalfa.hu

BARI, IT

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