

Produce large parts and custom batches

Roboze ARGO 500



**GORDIUSZ
ALFA**

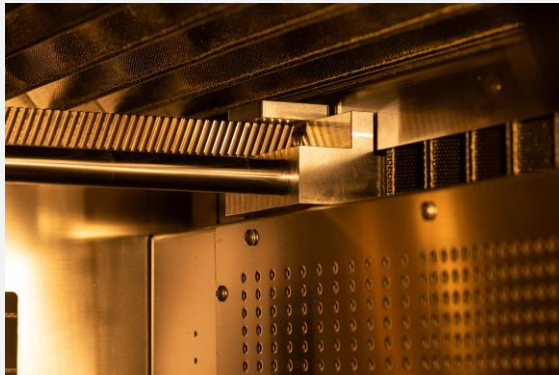
Célhoz az eszköz

Three factors that make Roboze technology one-of-a-kind

Roboze Technology

Patented Beltless System

- Mechanical Repeatability;
- 10 µm positioning tolerance;
- Low Maintenance.



HVP Extruder (Patent pending)

- Optimize flow of high viscosity polymers;
- Reduce shrink rate;
- Avoid extruder clogging.



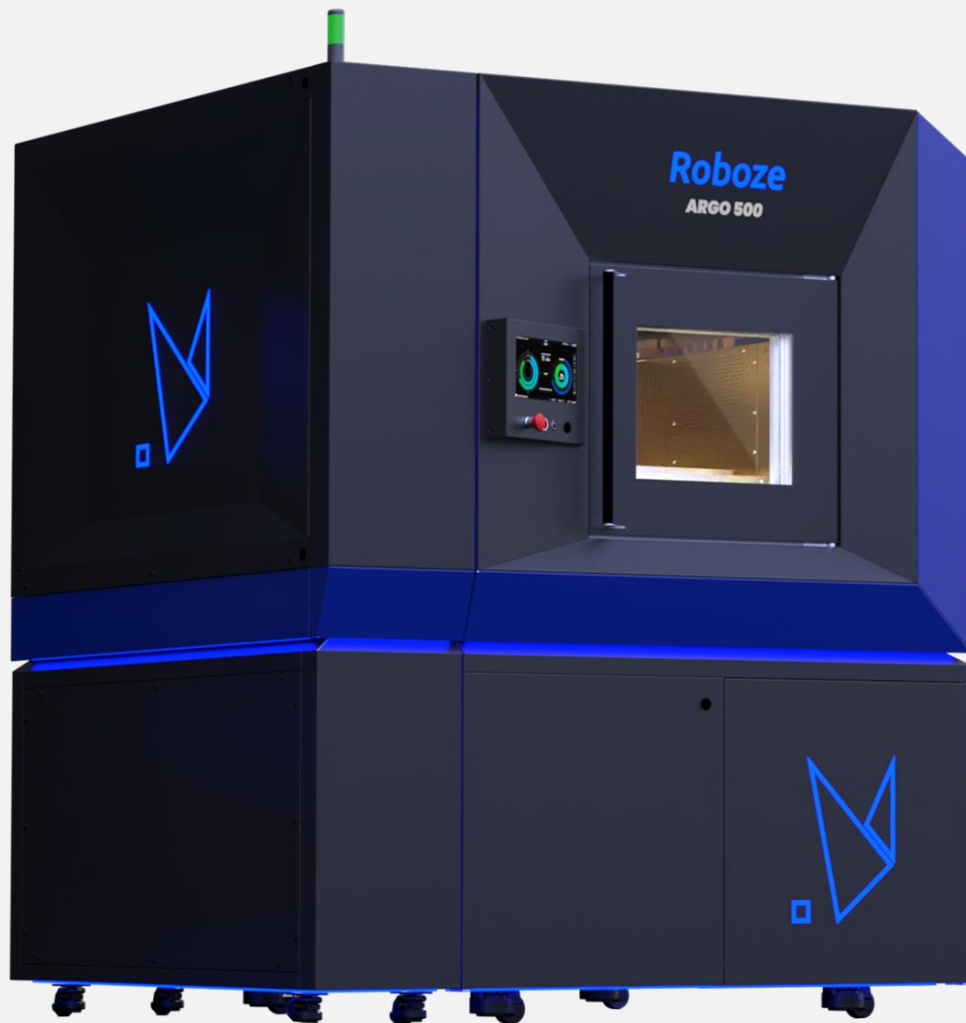
Insulated Heated Chamber

- Up to 180 °C (356 °F);
- Uniform airflow and controlled temperature;
- Thermal post processing is not necessary.



Production Series

Roboze Solution



Roboze ARGO 500

Produce large parts and custom batches

The first large-format super polymer 3D printer
for industrial production

**HIGH-PERFORMANCE
MATERIALS**

**LARGE-SCALE
FINISHED PARTS**

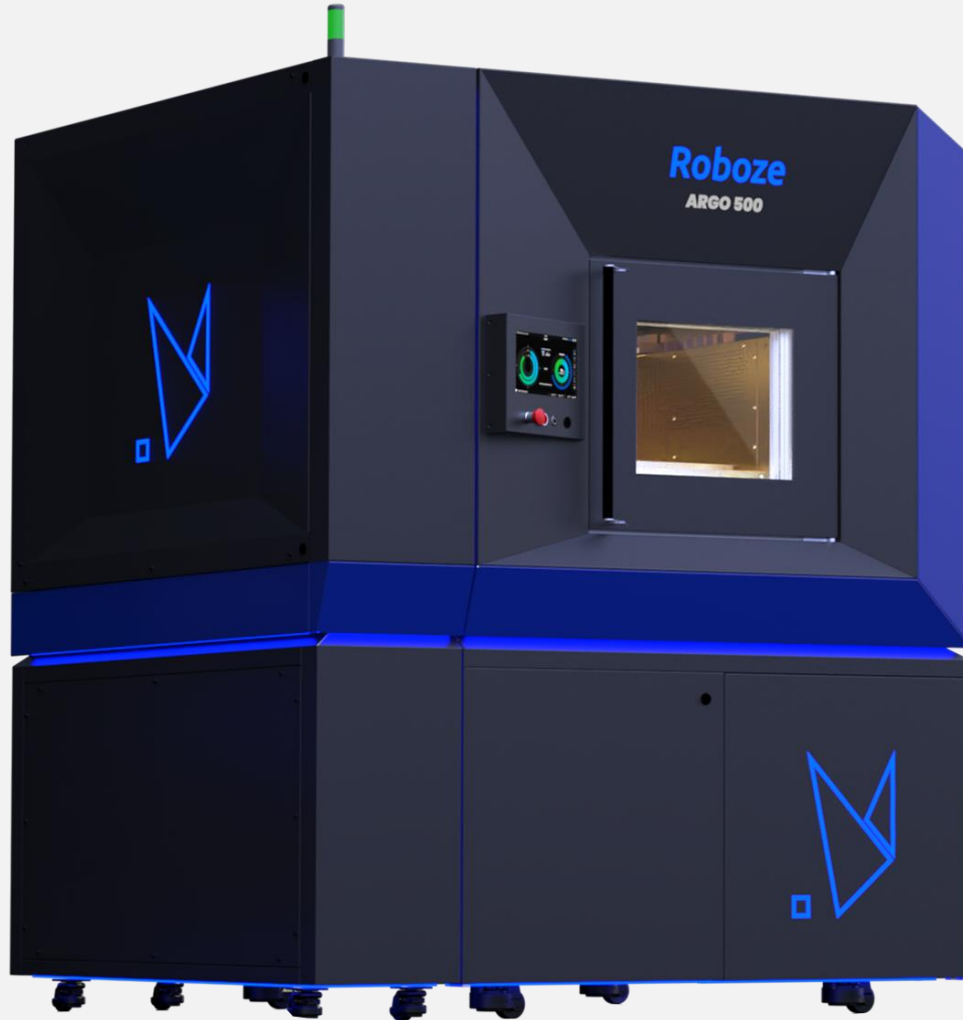
**REPEATABILITY
PROCESS OVER TIME**

**10 μ m POSITIONING
ACCURACY**

#PrintStrongLikeMetal #AdditiveManufacturing

Production Series

Roboze Solution

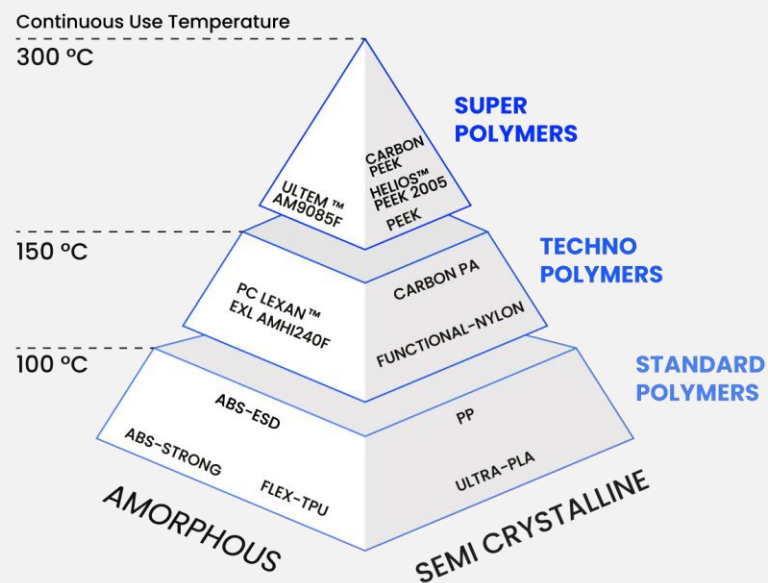


#PrintStrongLikeMetal #AdditiveManufacturing

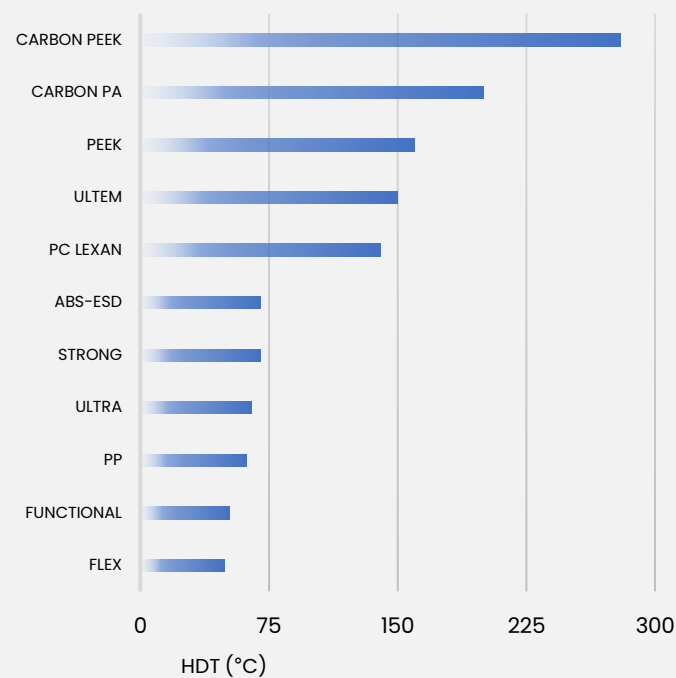


Production Series	
Roboze ARGO 500	
Build Volume	500 x 500 x 500 mm
	19.7 x 19.7 x 19.7 in
Extruder Temperature	500 °C / 932 °F
Heated Chamber	180 °C / 356 °F
Vacuum Plate	Yes
Accuracy	XY: 10 µm / 393.70 µin
	Z: 25 µm / 984.25 µin
Resolution	Quality Profile: 0.225 mm / 0.009 in
	Speed Profile 0.300 mm / 0.012 in
MATERIALS	
ULTRA-PLA	X
STRONG-ABS	X
FUNCTIONAL-NYLON	X
ABS-ESD	X
CARBON PA	X
PP	X
PC-LEXAN™AMHI240F	X
FLEX-TPU	X
ULTEM™AM9085F	X
PEEK	X
CARBON PEEK	X
HELIOS™ PEEK 2005	X

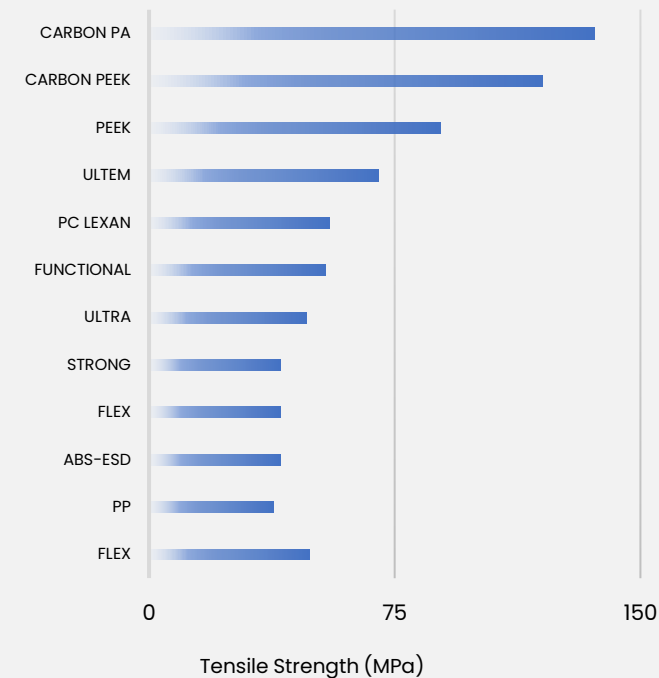
Engineered for Production



1. High-Heat resistance



2. Mechanical Properties





PC-LEXAN™ EXL AMHI240F
Polycarbonate + Siloxane

High impact resistance and ductility at low temperature (up to -30°C)
Flame and UV rays 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

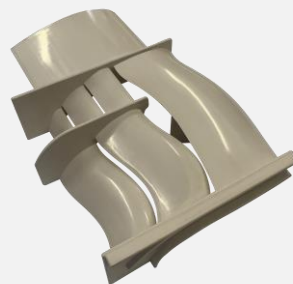
Good processability
Impact resistance
Low water absorption



ULTRA-PLA
Polylactic Acid

High surface quality
Easy to print
Sustainable and hypoallergenic

Roboze 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**

Helios™ PEEK 2005

PEEK + Ceramic Fibers

Stiff and strong at high temperatures

Thermal and electrical insulation

Easy to print and post-process

Tensile Strength

Test Method: ASTM D638
Value: **125 MPa**

Carbon PA

PA + Carbon Fibers

High tensile strength

High tensile modulus

Good thermal resistance

Tensile Strength

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

ULTEM™AM9085F

Polyether imide

Thermal resistance

Flame retardant

Good surface quality

EN 45545

Certification

Roboze 3D Printing to be competitive and generate profits

Industrial Production Challenges

Busbar Support

ELECTRICAL MOBILITY



PEEK



512.16 g

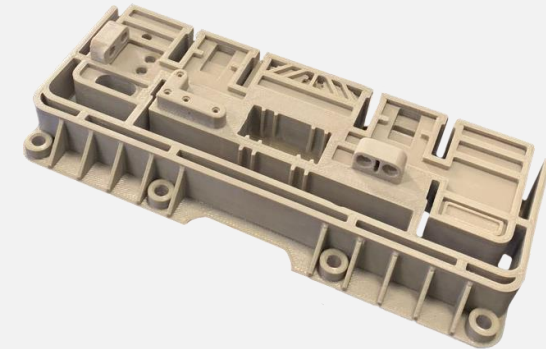


461 €



22 h 42 min

100% Infill



CubeSat

SPACE



CARBON PEEK



157.5 g



155 €



7 h 0 min

100% Infill



Our official reseller:



**GORDIUSZ
ALFA**

www.gordiuszalfa.hu

BARI, IT

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