

Produce large parts and custom batches

Roboze

ARGO 500

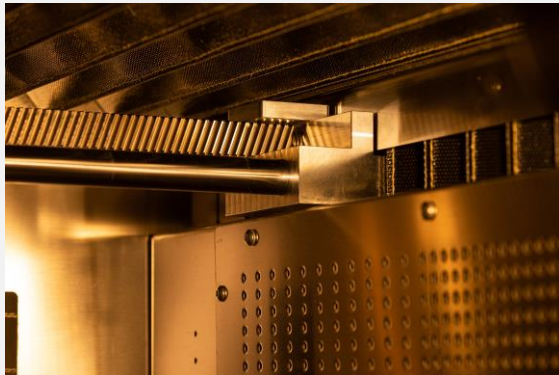


Three factors that make Roboze technology one-of-a-kind

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.



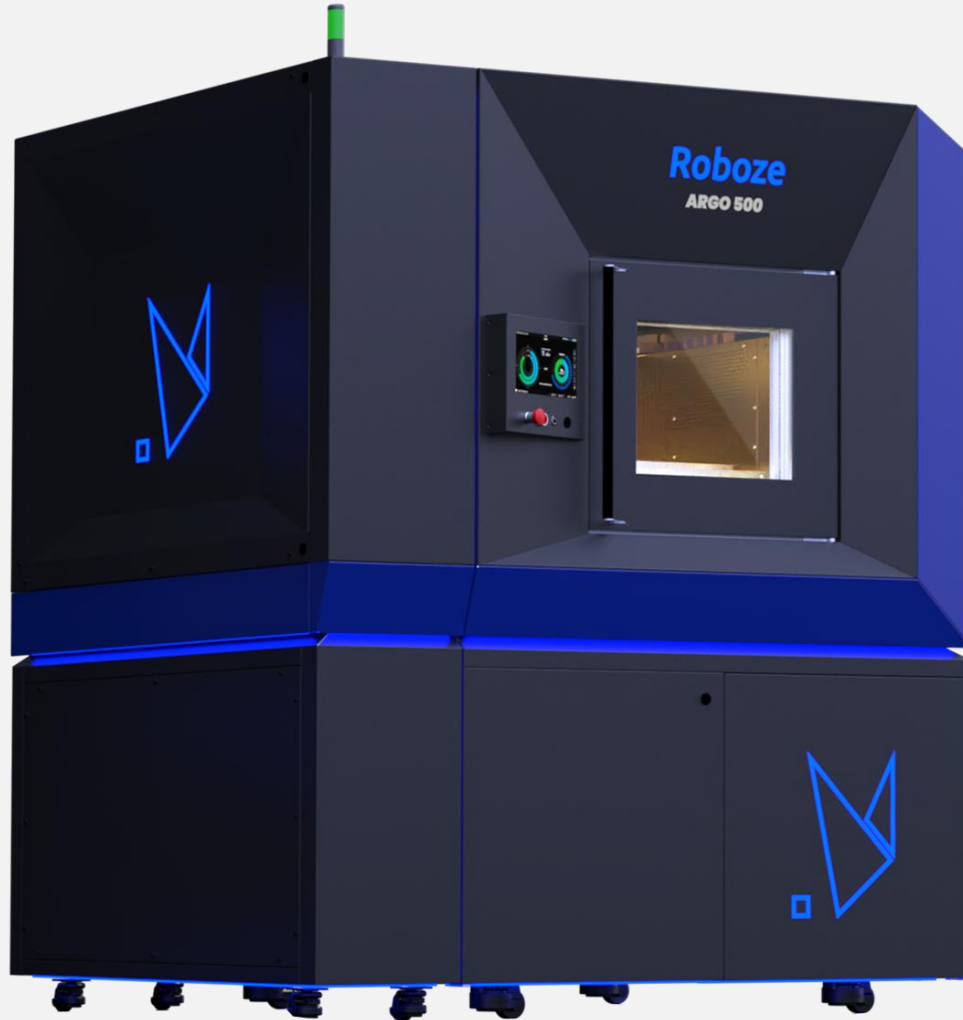
Insulated Heated Chamber

- 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**

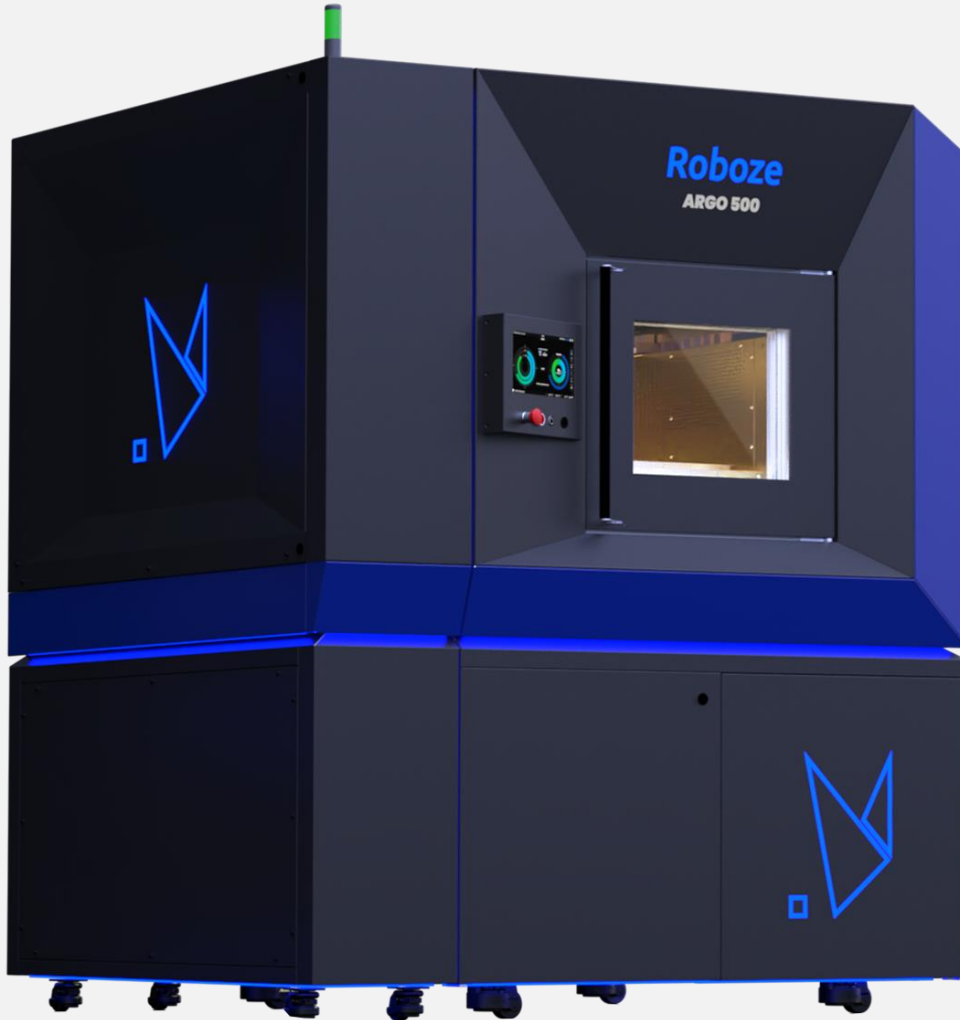
**REPEATABILITY
PROCESS OVER TIME**

**10 μ m POSITIONING
ACCURACY**

#PrintStrongLikeMetal #AdditiveManufacturing

Production Series

Roboze Solution



Production Series

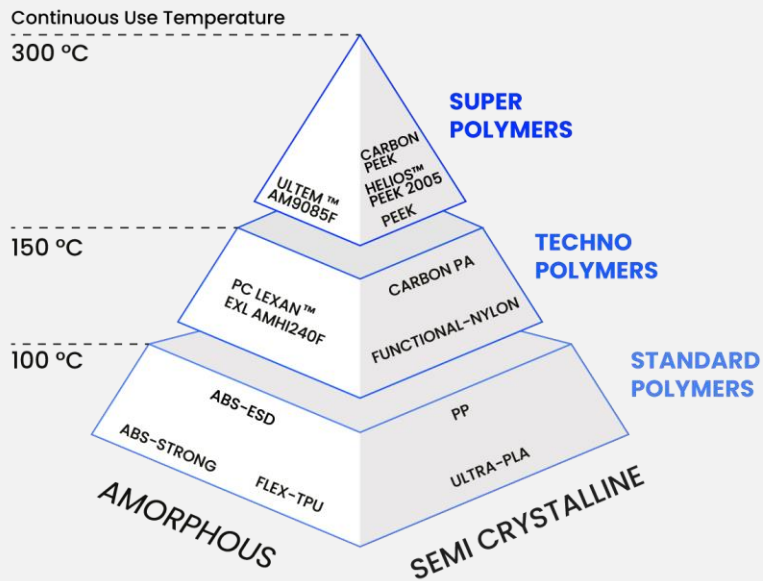
	Roboze ARGO 500
Build Volume	500 x 500 x 500 mm
	19.7 x 19.7 x 19.7 in
Extruder Temperature	500 °C / 932 °F
Heated Chamber	180 °C / 356 °F
Vacuum Plate	Yes
Accuracy	XY: 10 µm / 393.70 µin
	Z: 25 µm / 984.25 µin
Resolution	Quality Profile: 0.225 mm / 0.009 in
	Speed Profile 0.300 mm / 0.012 in

MATERIALS

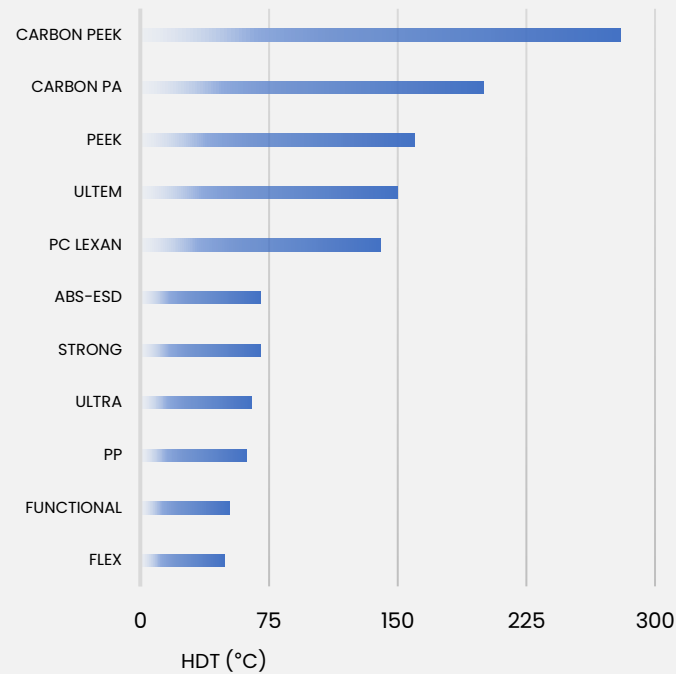
ULTRA-PLA	X
STRONG-ABS	X
FUNCTIONAL-NYLON	X
ABS-ESD	X
CARBON PA	X
PP	X
PC-LEXAN™AMHI240F	X
FLEX-TPU	X
ULTEM™AM9085F	X
PEEK	X
CARBON PEEK	X
HELIOS™ PEEK 2005	X

#PrintStrongLikeMetal #AdditiveManufacturing

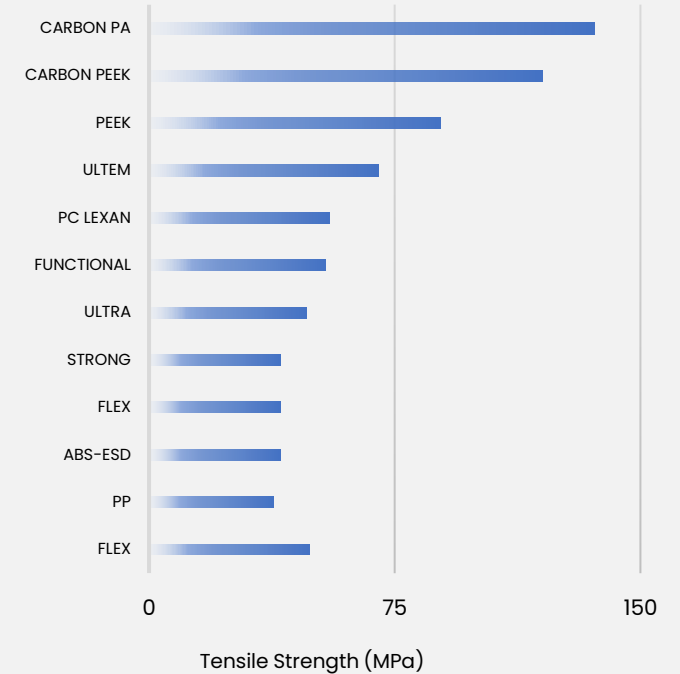
Engineered for Production



1. High-Heat resistance



2. Mechanical Properties





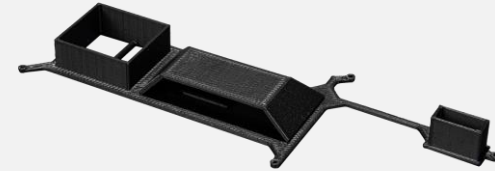
PC-LEXAN™ EXL AMHI240F
Polycarbonate + Siloxane

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

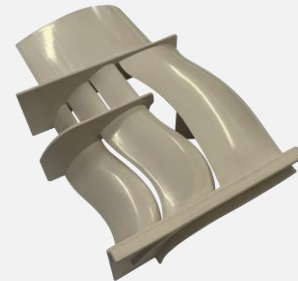
Good processability
Impact resistance
Low water absorption



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

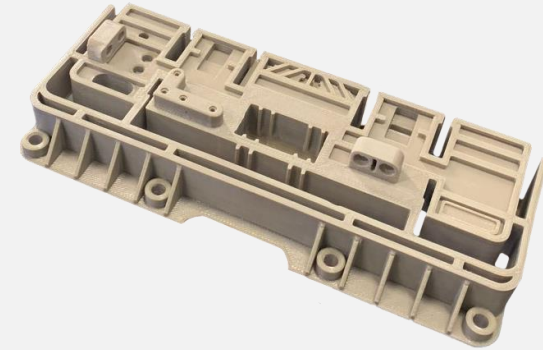


461 €



22 h 42 min

100% Infill



CubeSat

SPACE



CARBON PEEK



157.5 g



155 €



7 h 0 min

100% Infill



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