

A step forward to customized manufacturing

Roboze ARGO 1000



**GORDIUSZ
ALFA**

Célhoz az eszköz

Production Series

ARGO 1000



BIG

FAST

STRONG

ARGO 1000 is **the world's largest 3D printer**, equipped with **heated chamber**, for the **fast production** of incredibly and strong **super polymer and composite parts**. ARGO 1000 opens the era of custom manufacturing on exceptionally **large parts**.

#PrintStrongLikeMetal #AdditiveManufacturing

Let's rock the Metal Replacement Market!

ARGO 1000



Higher value in higher dimension

With its large volume of work, it is possible to print larger components and produce more parts in a single job, allowing you to meet different and changing needs, optimizing time and reducing costs.

Build volume

1 x 1 x 1 meter

39.27x39,27x39,27 in

Best -in-Class Heated Chamber

The Roboze heated chamber is the result of years of work, prototypes and hundreds of simulations. This solution developed uniquely by Roboze allows a homogeneous working environment aimed at consolidating the parts and for a perfect thermal fusion of the layers to achieve exceptional mechanical properties.

Heated Chamber

Up to 180 °C/356 °F

Industrial Automation

ARGO 1000 is equipped with an industrial automation system that easily integrates into your production workflow, allowing you to schedule part production, analyze data and quickly predict/resolve potential failures, increasing your efficiency and reducing printing downtime.

Industrial Automation

Automation and Control System

Production Series

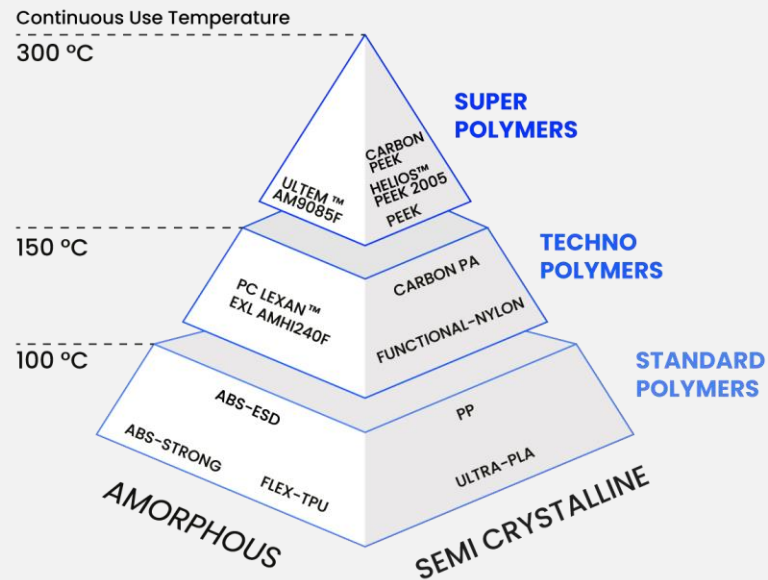
ARGO 1000



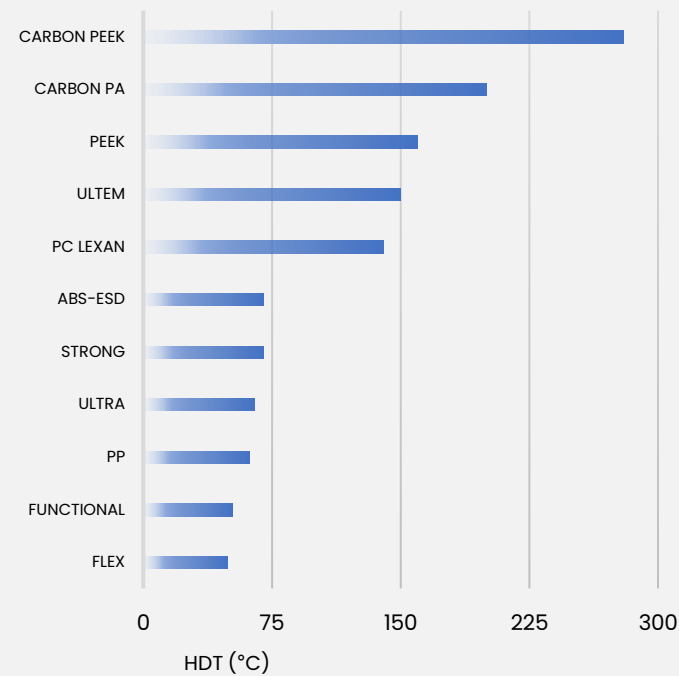
#PrintStrongLikeMetal #AdditiveManufacturing

Production Series	
Roboze ARGO 1000	
External Dimensions	390 x 225 x 215 cm 153.54 x 88.58 x 84.54 in
Build Volume	1000 x 1000 x 1000 mm 39.37 x 39.37 x 39.37 in
Machine weight	4,000 Kg/8,818.5 lb
Extruder Temperature	450 °C / 842 °F
Heated Chamber	180 °C / 356 °F
Vacuum Plate	Yes
Process Accuracy	99.96% of parts obtained on multiple machines
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
SUPPORT MATERIALS	X

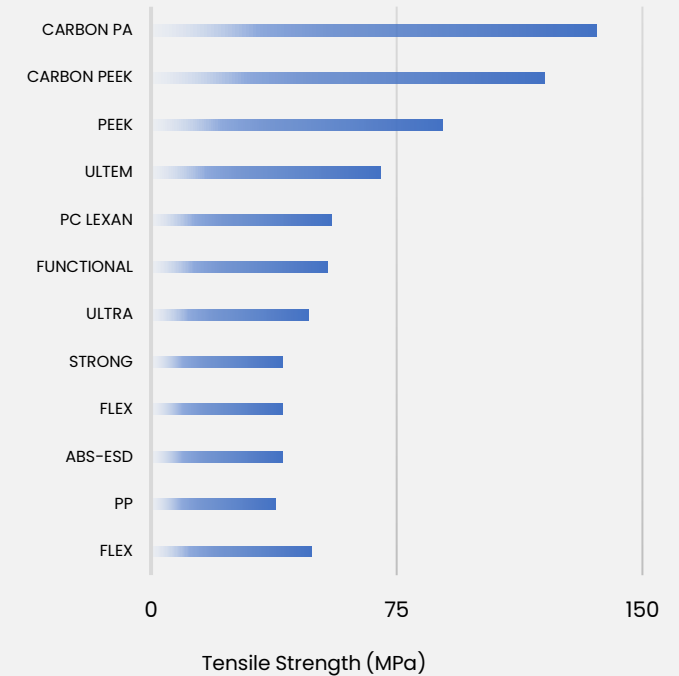




1. High-Heat resistance



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

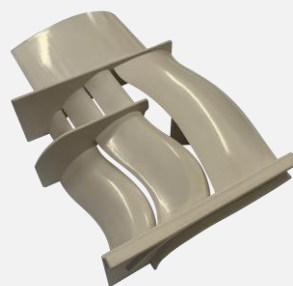
High compression strength

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

Our official reseller:



**GORDIUSZ
ALFA**

www.gordiuszalfa.hu

BARI, IT

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