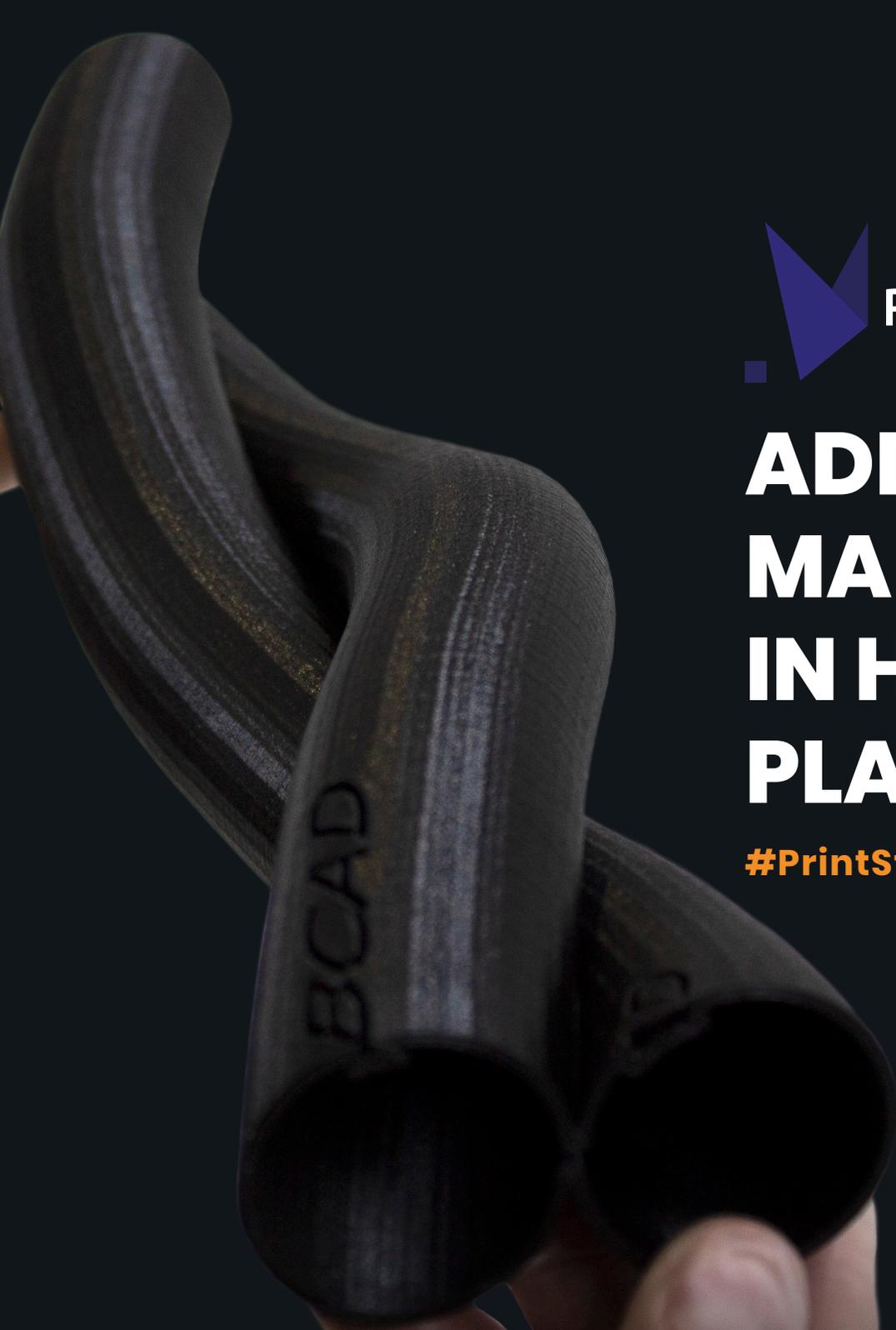




Roboze

ADDITIVE MANUFACTURING IN HIGH PERFORMING PLASTICS

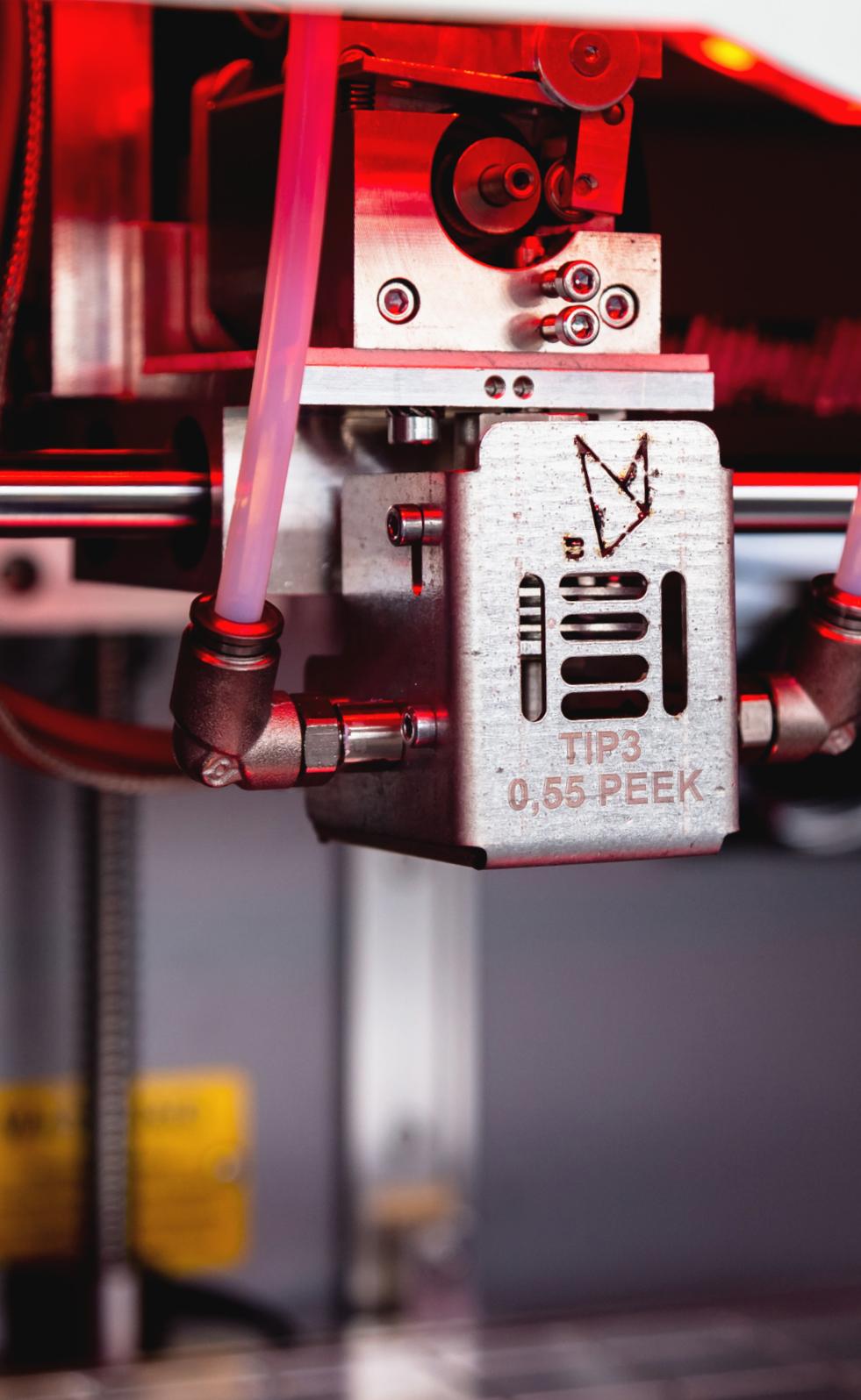
[#PrintStrongLikeMetal](#)



The Roboze team is pleased to offer a unique 3D printing solution, designed to meet its customers' core needs.

The Roboze brand draws its success from its high quality products, meticulous selection of industry partners and quality customer care beyond the sales process: offering customers its full know-how in mechatronic engineering and advanced materials – all factors that create extreme value for businesses in need of high-performance, reliable 3D printing.

Roboze 3D printers are known worldwide for their reliability, accuracy, repeatability, and versatility of advanced engineering plastics.



Unique

Roboze challenges standards in design, mechanical engineering, printing technology and material versatility, by developing new unique 3D printing technologies.

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

- 1.** Patented Beltless System:
a beltless mechatronic system that guarantees high accuracy compared to mainstream belt-motion systems.
- 2.** High temperature Extruders completely engineered and produced by Roboze. The latest model exceeds 500° C/752°F enabling printing of advanced materials such as PEEK and ULTEM™ AM9085F.
- 3.** 13 different materials. Thanks to the latest developments from Roboze's advanced R&D team, Roboze is able to design sophisticated material solutions that deliver exceptional results for multiple applications. Today, Roboze 3D printers can handle up to 13 different materials.

Applications

METAL REPLACEMENT

Roboze 3D printers allow manufacturers to reduce time and labor costs by replacing their traditional metal parts with high quality plastics such as Carbon PEEK, PEEK and Carbon PA. Thermal insulation, low friction coefficient, chemical resistance to corrosion, lightness and specific resistance: these are the requirements that the industry needs and, at the same time, the focal point of the Roboze's offer.

END-USE PARTS

Roboze solutions guarantee the printing of durable, stable and repeatable parts. With an accuracy level comparable to that of injection molding, and a wide range of high quality thermoplastic materials, Roboze gives manufacturers the ability to produce small batch series, and customized end-use parts to digitize factory processes.

FUNCTIONAL PROTOTYPING

Functional prototyping offers a chance to preview, test and perfect designs before entering the production phase. The wide range of Roboze engineering grade materials enables production of prototypes and custom components, giving users the possibility to run advanced functional tests, in rigorous testing scenarios, in order to obtain more accurate performance data and certifications.

Trusted by

Today, Roboze 3D printers are used by several industry leaders for motorsport, aeronautics, defense and aerospace applications.

AIRBUS
GROUP

Honeywell



dallara

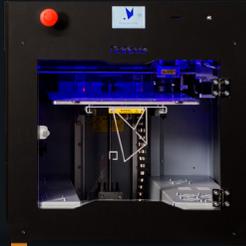
CNH
INDUSTRIAL



SYSTEMS OVERVIEW

**ADDITIVE SOLUTIONS SPECIFICALLY DESIGNED
AND PRODUCED TO SATISFY THE INDUSTRIES' NEEDS**

DESKTOP SYSTEMS



Roboze One



Roboze One+400

PRODUCTION SYSTEMS

DESKTOP/PRODUCTION SYSTEMS



Roboze One XTREME



Roboze One+400 XTREME



Roboze ARGO 500

DESKTOP SYSTEMS

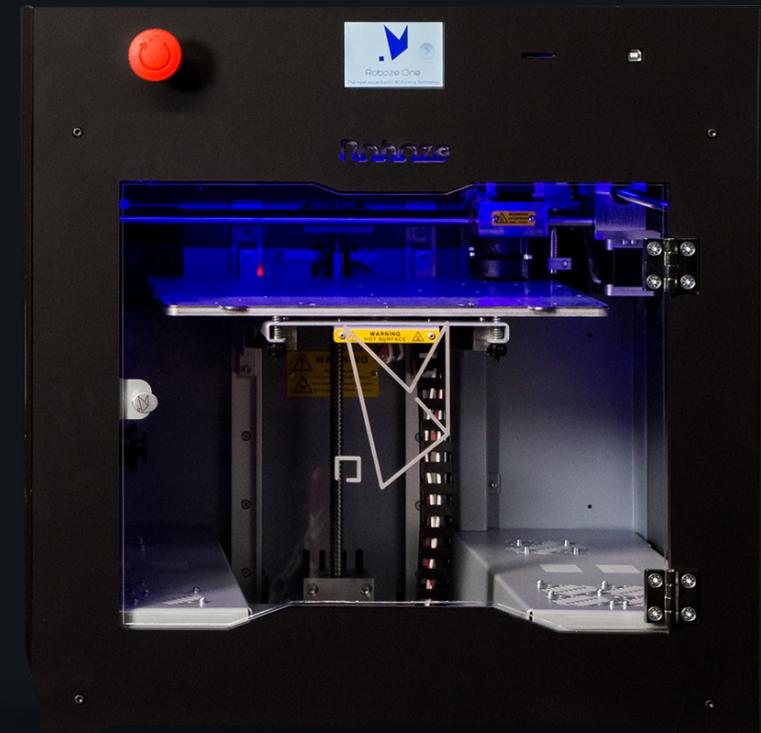
The most accurate and versatile FFF 3D printers in the world

Roboze One Create to Create

Roboze One was created for professionals and industries. Its innovative technology and unprecedented mechanical components surpass mainstream printers.

The patented mechatronic movement system of the X and Y-axes, which directly connects rack and pinion, achieves revolutionary accuracy levels in real 25-micron resolutions.

Attention to detail: it's elegant design, user-friendly maintenance and large print plate size 280 x 220 x 200 mm (xyz)



Download **Roboze One**
data sheet

Roboze One+400

Dream up the impossible then do it!

Roboze One + 400 is equipped with a revolutionary patented beltless linear motion system that delivers superior accuracy over the traditional axis-motion system that is based on the indirect movement of driving belts.

Roboze R&D engineers powered-up the 3D printer with one extruder capable of exceeding temperatures up to 450°C allowing it to print in industrial-grade, highly advanced materials such as PEEK.

Roboze One + 400 can handle six different advanced thermoplastic materials, with a print plate size 300 x 200 x 200 mm (xyz).



Download **Roboze One+400**
data sheet

DESKTOP/PRODUCTION SYSTEMS

High Performance Technology for the most Xtreme applications

Roboze One Xtreme

Roboze One Xtreme offers a desktop version to the world of finished parts and metal replacement thanks to a system that meets the manufacturing industry needs.

9 technical materials available, improved Beltless System, Vacuum System for a greater first-layer flatness of the printed parts, Support System Cabinet (SSC) - a support cabinet designed for the control of material temperatures and housing of the Vacuum Box, better control of the machine and a 300 x 200 x 200 mm (xyz) build plate.



Download **Roboze One XTREME**
data sheet



Roboze One+400 Xtreme

The core system of the Roboze desktop line evolves and improves its performance with new elements, capable to offer even more extreme performances.

The Beltless System is improved thanks to a specific technique that increases the accuracy, the corrosion and ware resistance, guaranteeing longer useful life of the machine.

As equipped with the Support System Cabinet (SSC), it is able to produce finished parts and functional prototypes with 13 high performing technopolymers, in order to satisfy the most Xtreme industry's needs.

PEEK, CARBON PEEK, CARBON PA, CARBON PP, GLASS PA – the real printing versatility with a 300 x 200 x 200 mm (xyz) build plate.

With the new desktop/production series, FFF 3D printing will be no longer the same.



Download **Roboze One+400 XTREME**
data sheet

PRODUCTION SYSTEMS

From prototyping to large-scale production of finished parts

ARGO 500

ARGO 500 is the result of extensive market needs analysis, intense research and strategic partnerships with the main influencers in the additive manufacturing sector.

Argo 500 produces end-use parts with a build size of 500x500x500 mm.

Using high-performance technopolymers for extreme applications: PEEK, ULTEM™AM9085F, CARBON PA and CARBON PEEK.

Get ready to print parts strong like metal!



Download **Roboze ARGO**
data sheet

FOCUS

SUPER POLYMERS



PEEK

Polyetheretherketone (PEEK) is a high performance technical thermoplastic characterized by an extraordinary combination of properties – Norsok M710 certified, glass transition temperature of 143°C and a continuous use temperature of 245°C.



CARBON PEEK

Carbon PEEK thanks to the addition of carbon fibers to PEEK, guarantees more thermal stability at even higher temperatures with a HDT of 280°C.



CARBON PA

The union of Roboze polyamide and carbon fibers – the strongest material on the market today. Carbon PA has the highest mechanical strength with a tensile strength of 138 MPa and an elastic modulus of 15 GPa.

MATERIALS

**HIGH PERFORMANCE MATERIALS
FOR MAXIMUM PERFORMANCE**

Tecnopolymers engineered and customized to the needs of the world's most extreme sectors.

NEW XTREME SERIES



PP



CARBON PP



GLASS PA



CARBON PEEK

Polyether Ether Ketone +
Carbon Fiber



ULTRA

Polylactic Acid Base



FLEX

Thermoplastic elastomer



STRONG

Acrylonitrile
Butadiene Styrene



ABS-ESD

ABS + Carbon
Nanotubes



**FUNCTIONAL
NYLON**



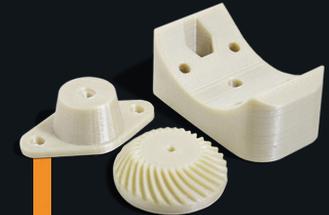
**PC LEXAN™
EXL AMHI240F**

Polycarbonate Copolymer



CARBON PA

Polyamide +
Carbon Fiber



ULTEM™ AM9085F

Polyetherimide



PEEK

Polyether Ether Ketone



Roboze

HEADQUARTERS

Roboze

Via Vincenzo Auliso 31/33
70124 Bari – Italy

USA REGIONAL OFFICE

Roboze Inc

2135 City Gate Lane – Suite 300
Naperville, Illinois 60563, United States

Sales Inquires: sales@roboze.com

roboze.com