

## **Roboze Argo 500 gets the standard for the production of large scale finished components with high temperature and composite polymers**

July 1st, 2019 - Bari, Italy

With its new **Argo 500**, [Roboze](#) aims at becoming leader in the large-scale 3D printing industry with high performance plastics. **Argo 500** is the result of constant research by Roboze engineers that revolutionised the 3D printing world, offering versatile and extremely precise printing solutions.

Over the next 6 months, there are already many shippings planned. A lot of companies identified **Argo 500** as the ideal additive manufacturing solution to meet the need of producing unique parts or small batches of components to be used for final applications in those sectors like Aerospace, Motorsport, Oil&Gas and Automotive. From July, Roboze will start accepting the first orders of **Argo 500** for 2020, estimating of quintuplicating its production.

In the meantime, the company has delivered and installed, for the global leader in the production of space rockets, the first **Argo 500**, the Production FFF 3D printing solution, capable to realize finished parts with composite materials and high temperature super polymers.

**Argo 500**, thanks to a build plate of 500x500x500 mm, allows the production of large scale finished parts. In order to guarantee the perfect adhesion between the parts and the build plate, **Argo 500** is equipped with a **Vacuum System**, that offers greater stability during the printing process of larger parts and guarantees the planarity of the component. The **heated chamber**, able to reach 180°C, can face the deformation phenomena of techno polymers, especially on large-scale sizes. The **HVP Extruder** allows to reach extrusion temperatures up to 550°C with a specific technology dedicated to high viscosity polymers like **Carbon PEEK**, **PEEK**, and **Ultem™ AM9085F**.

Roboze techno polymers, with high thermal and mechanical resistance like **Carbon PEEK**, are able to replace metal alloys, allowing to print functional parts for any kind of application. In the FFF 3D printing technology market, **Carbon PEEK** is the material that presents the most extraordinary properties for extreme applications. The addition of carbon fibers makes the PEEK matrix even more resistant in terms of mechanics and permits to go further in the **Metal Replacement** process in the motorsport, oil&gas, aeronautic and aerospace industries, where high mechanical, thermal and chemical resistance is fundamental.

*“Roboze is going through a phase of exponential growth”, states Alessio Lorusso, CEO & Founder. “Our engineering team is working hard to offer the best FFF 3D printers for the realization of finished parts with composite materials and high temperature super polymers, guaranteeing precision and repeatability. The great demand we are receiving for*

*Argo 500 demonstrates the growing interest of the market toward this kind of Production solutions. This year we're almost sold-out with Argo 500, purchased by some of the biggest global industry leaders in the aerospace, defense and oil&gas sectors. The final goal is offering the best industrial 3D printers through the constant product innovation. The advantages for the end customers are tangible in terms of precision, flexibility, personalization and process accessibility, compared to traditional methods”.*

However, there are many other news from Roboze: during Formnext 2019 in Frankfurt, the most important exhibition for the additive manufacturing world, the company will show new models of FFF 3D printers, new super materials and a revolutionary software to control and monitor the printing process. The goal is becoming leader in the manufacturing of finished parts with composite materials and high temperature super polymers through a constant product innovation, thanks to Roboze R&D team.

With the headquarter in Italy and a branch in US, the innovative 3D printing company Roboze designs and manufactures state-of-the-art FFF 3D solutions for additive manufacturing applications. The innovative Beltless System – that introduced the mechatronic movement of X and Y axes with a system of hardened steel rack and pinions – allows the company to produce functional prototypes and final applications with a range of high temperature super polymers and composite materials. Aiming at replacing metals, many industry leaders use Roboze 3D printing technology daily, reducing their production time and costs in the most extreme environments.

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