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## CARACOL AND ROBOZE FOR EXTREME APPLICATION ADDITIVE MANUFACTURING

Bari, Italy – October 4, 2018

**Caracol Factory**, department of [Caracol Studio](#) offering prototyping and manufacturing services with the most sophisticated additive manufacturing technologies, chooses [Roboze](#) to respond to the emerging demand for finished parts in high performance materials.

The two companies have recently **carbon fiber reinforced** polyamide, for a specific application handling soft materials, obtained thanks to the combined work between a **pneumatic gripping system** and a **6-axis robotic system**, designed and produced by Caracol Studio.

The component was digitally designed and manufactured with the Roboze One 3d printer to best meet **customer needs**, realizing the design based on the forces involved, the required material and the expected manufacturing technique, **in order to maintain the lightest weight possible**.

O date, 3D printing remains the only manufacturing technology capable of responding to this particular need **by an increasingly dynamic and demanding market**.

The project - among others - required the use of a mechanically performing material: **the choice fell on Carbon PA, a carbon fibre reinforced polyamide**. This approach, in addition to being cheaper than traditional methods, has allowed the customer to receive a fully functional piece with a contemporary and attractive design **created specifically for the non-standard processing required, significantly lighter and able to increase the processing speed of the robot**, and overall productivity. Another way to do it simply does not exist.

### THE ROBOZE CHOICE

**Paolo Cassis, co-founder and designer of Caracol Studio**, has chosen Roboze for its "indepth knowledge of the treatment of highly performing polymers and technopolymers." "Among all 3D printing technologies – Cassis added – Roboze was the only one to rely on for the **realization of such unique components**."

The flange is just a small example: the design and manufacturing of custom components can extend to many areas, whether industrial or automation, **replacing traditional techniques and obsolete materials** that in addition to having an unsustainable environmental impact, are heavy, oversized and therefore more expensive, as well as unsightly and difficult to adapt to specific processes.

"We have partnered with Roboze for the supply of 3D printers because it is the only one that allows you to work the most sophisticated engineering plastics," said **Jacopo Gervasini, co-founder CEO of Caracol**. "This, together with the extraordinary mechanical solidity that characterizes the printer, offer our customers the only valid solution capable of guaranteeing repeatability and complete reliability in the manufacturing of large batches of functional components for the industry".

## About Caracol

**Caracol Factory** is the department of Caracol Studio that deals with **additive manufacturing technologies** and related services. It is divided into two departments: **3d Printing Manufacturing and Robotics Research and Development**.

Thanks to the partnerships with **leading companies** manufacturing **3D printers** and **innovative polymeric materials**, Caracol Factory can offer its customers the most sophisticated technologies available on the market, guaranteeing an unprecedented **prototyping and manufacturing service for functional industrial parts in additive manufacturing**.

Following the experience gained in the experimental research on robotics applied to 3D printing, Caracol Factory can now offer the opportunity to enjoy an exclusive service of advanced prototyping and additive manufacturing on large volumes, **also providing a design service ad hoc plug and play devices for industrial automation**.

## About Roboze

Located in Bari, Roboze, the innovative 3D printing company, designs and manufactures next generation 3D FFF solutions for additive manufacturing applications. Its *Beltless system* 3D technology allows the company to manufacture high quality parts in various advanced technopolymers for extreme functional tests and final applications dedicated to metal replacement.

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