



CRP Technology, the company that brought professional 3D printing to Italy, celebrates 25 years of activity

CRP's newest video: https://youtu.be/CKWkjHBeZ_I

Modena, Italy, 28 July 2021 - CRP Technology **has been changing the rules of manufacturing** since mid-90' and **this year celebrates 25 years of 3D printing advancements.**

The plurality may have only discovered Additive Manufacturing in the last decade, but **CRP Technology has been familiar with its inner connections since 1996.** At that time Roberto Cevolini (owner of Roberto Cevolini & Co. high precision CNC machining avantgarde service with roots in the high end automotive/racing world) decided to analyse the 3D printing processes with a clear idea in mind: be able to resolve in advance customers' issues and offering them never-seen-before technological solutions.

Roberto Cevolini's son, Engineer Franco Cevolini - VP, CTO at CRP Technology - comments: *"My father had a strong drive for bold innovation, a natural predisposition to think beyond that caused him to invent harsh solutions for the most demanding industry sectors."*

Thus, in 1996 Roberto Cevolini invested in a sinterstation for Selective Laser Sintering; **at the time no one company in Italy had one, they were the first.** In order to make their engineering contribution stronger, Roberto Cevolini and his son Franco founded CRP Technology, a subsidiary of Roberto Cevolini & C.

CRP Technology included a R&D department for material development.

Franco Cevolini, states: *"Purchasing an industrial 3D printer wasn't enough for us, **we wanted to make a major and stronger contribution:** we decided to create a family of 3D printing materials suitable to manufacture high performing parts and applications, which could meet the needs of our F1 customers."*

At the end of '90s it became evident that Selective Laser Sintering was an excellent technology with limitations imposed by "process-able" materials limited in scope to use for traditional non-functional prototyping. CRP Technology's vocation for bold technological innovations **developed something out of the ordinary: the Windform®** range of composite materials for professional 3D printing.

In 1999 Windform®, the name born out of its primary purpose as a wind-tunnel material, represented **the first hybrid polymer-metal composite (filled with Aluminium) to be used for functional prototyping.** It proved excellent to **satisfy almost all needs for wind-tunnel modelling** and allowed aerodynamicists to have a new powerful tool available in order to make functional, fluid-



aerodynamic, fitting and assembling tests. Moreover it proved excellent for direct “in-the racing-car” applications.

The Windform® family was officially born and launched: **the way to transforming rapid prototyping into rapid manufacturing was paved.**

Franco Cevolini, who is also the creator of Windform®, remembers those years: *“Our attitude to create pioneering, high-tech solutions allowed us to be the first to satisfy the most extreme requirements of the F1 industry.*

Windform materials’ high mechanical and thermal properties allowed to shift from the manufacture of simple concept models to high-end prototypes and production parts, thanks to their long-lasting performances, stiffness, lightweight.”

While new Windform® materials and new high-tech solutions were produced and launched (such as **Windform® XT, the first composite polyamide-based** material for 3D printing, Carbon fiber filled, destined to change the rules of the Additive Manufacturing market) the Cevolini family landed on the American market. It was the 2008, and they **founded CRP USA** in Mooresville, North Carolina, the heart of the southern industrial and manufacturing hub surrounded by aerospace and motorsports communities.

CRP USA started manufacturing on-car and wind tunnel components for racing teams using Windform® materials, and has taken this expertise to new heights to produce parts for the space, entertainment, automotive and the most advanced sectors.

In 2015 Windform® XT has been replaced by **Windform® XT 2.0**, that features improvements in mechanical properties including +8% increase in tensile strength, +22% in tensile modulus, and a +46% increase in elongation at break.”

In 2019 **Windform® FR1** is launched worldwide. It is a unique Flame Retardant (V-0 rated) material for Additive Manufacturing carbon fiber reinforced. Less than a year later, arrived on the market Windform® FR2, Flame Retardant polyamide based material glass fiber filled.

So far the Windform® family of comprises **12 materials** distributed in two lines, adequate to fulfill the needs of the most advanced and demanding sectors, including aerospace and defense, avio, robotics, medical, motorsports and automotive.

Important progress has been made in the sector of additive technologies with the development of Windform® materials, such as outgas tests for use in space, patch testing for the medical sector, fashion and design and testing of non-conductivity, expanding the use of these in all areas in which a highly durable material is required, offering the opportunity of being processed with high precision CNC machining.



Following their obsession for innovation, Cevolini family constantly re-invent themselves: **in 2010 they decided to invest in the new field of sustainable vehicles and created Energica**, the first high-performance electric motorcycle Made in Italy.

Engineer Livia Cevolini, CEO Energica, “The foundations of the Electric Motor Valley had been laid, and we have been the first to help create it.”

CRP Technology and CRP Meccanica acted as a technological incubator and are still today the lead investors of Energica Motor Company, since it has become an independent entity.

The CRP’s high-tech solutions have been contributed to Energica’s huge success worldwide. It is also thank to CRP’s heritage that Energica has been chosen by Dorna as the single manufacturer for the FIM Enel MotoE™ World Cup.

Franco and Livia Cevolini, “We have been working not only to make the change but to be the change. Day by day, we are building the future”

crptechnology.com
windform.com

