

ITALIAN MACHINE TOOLS, ROBOTICS & AUTOMATION INDUSTRY ~ NEWS

Jan 2024

PIATTAFORMA INDIA PROJECT

NEWSLETTER NO. 85



UCIMU-SISTEMI PER PRODURRE



Need Buyer Credit Finance to buy machine?

We can help you!

please write to us – italianmachinery@indiaitaly.com

CMS KREATOR: LARGE FORMAT ADDITIVE MANUFACTURING AND MILLING BY CMS!

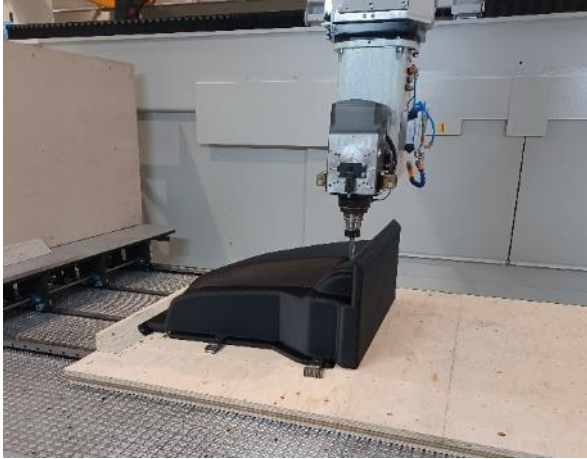


CMS Advanced Materials Technology, leader in CNC machines for composite processing, started in 2018, in cooperation with the prestigious german **Fraunhofer Institut**, to develop an **original LFAM (Large Format Additive Manufacturing) solution**, for improving the competitiveness of composite and other industries.

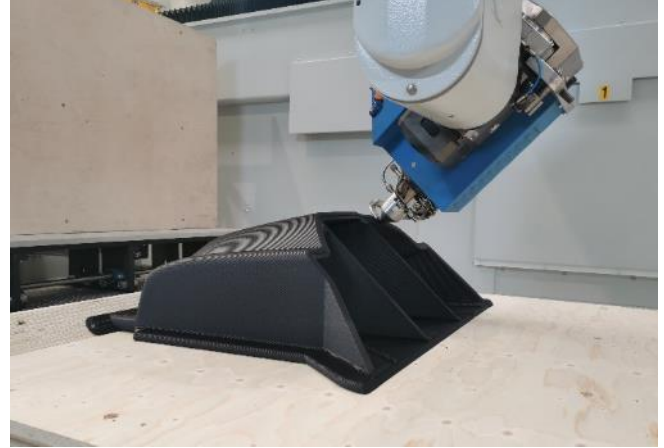


The Additive Manufacturing technology adopted is Screw Extrusion Additive Manufacturing (SEAM)

- **Thermoplastic polymer**, in **granulated** form is the material used.
- The polymer is almost **always reinforced** (discontinuous fibres of carbon or glass) and the reinforcement is inside the granules.
- The extrusion is done by a **single screw extruder** that melts the granules.
- The **extruder is moved by the tool machine's axes**.
- The melted polymer exiting the extruder is **deposited in layers** that plasticize and **form a single piece**.



MILLING



PRINTING

KEY BUYERS BENEFITS:

- All-around manufacturing solution: CMS hybrid technology combining 5-axis milling and Screw Extrusion Additive Manufacturing (SEAM).
- Enabled vertical 0°, 45° and horizontal 90° 3D printing with a build volume from 3x2x1 m up to 10x4x1,6 m.
- Developed to process a variety of thermoplastic fiber reinforced polymers: PA, ABS, PC, PEI, PESU, PET, PP, and many others.
- 10, 25 and 100 kg/h extrusion unit.
- Vacuum machining table and heated printing surface available.
- Near net shape tool manufacturing: up to 80% material and weight saving compared to conventional technologies.
- High print speed and lower material cost than large-scale FDM.
- 60% reduction in Green Gases Emissions compared to traditional tool manufacturing process (LCA provided by RINA Consulting S.p.A)
- Patented milling-to-printing automatic head change, no manual operation needed.
- ICARUS, innovative product-oriented slicing software.

Machine integrated programming software for a flawless process management

Watch the video: <https://youtu.be/ha7zaePDZK4>

Visit our website: www.scmgroup.com/en_IN/cms

Contact us: mktf@cms.it

The project Piattaforma India has been promoted by UCIMU – Association of Italian Machine Tools Manufacturers and AMAPLAST – Italian Plastics and Rubber Processing Machinery and Moulds Manufacturers Association. The two associations agreed on the idea that promoting a network of associations and entrepreneurs who have developed knowledge and experience on the Indian market, can be useful in favoring of new paths of development for business. The Indian companies who are interested to form JV, cooperation, technical tie up, purchase machinery etc from/with Italian companies can contact below mentioned address for any assistance:

Contact information of Piattaforma India desk:

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