

Large Scale Robotic FGF 3D Printing Technology Company

Made In India, For The World!

3D Printing bigger and faster;
without supports, in wide
range of granulate materials.



Founded in year 2015, VOILA Scientific Needs Pvt. Ltd. is a Deep Technology Company focused on Large Scale Additive Manufacturing (LSAM) and Robotic Digital Fabrication.

Turn-key Systems

Large Scale Robotic 3D Printing Systems powered by our high throughput patented FGF 3D Printing Technology.

FGF Materials

Wide range of filled/ unfilled industrial grade polymer / composite granules for all applications, including granules sustainably developed from recycled plastics.

Large Scale 3D Printing Services

With our state-of-the art Application Centre & Facility at Bengaluru, we provide On-demand Large Scale 3D Printing Services, cost-effectively and quickly.



Scan QR Code
to view our
system in action

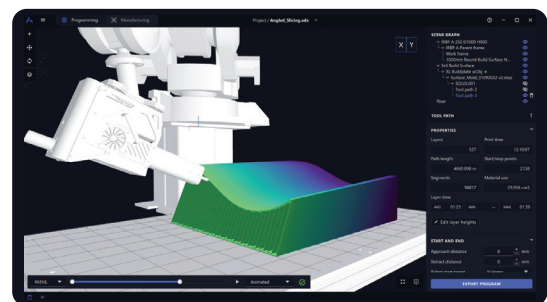


Image Courtesy: ADAXIS AdaOne.

Our Technology Partners



Contact Us

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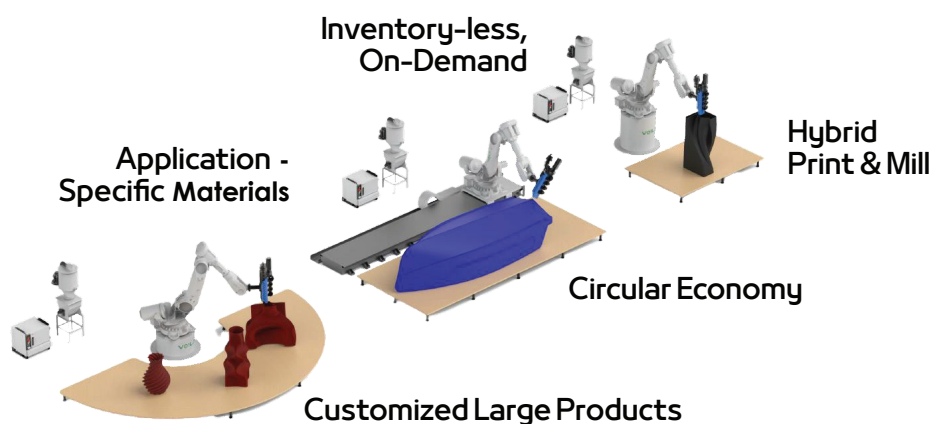
 info@voila3d.in

Why Adopt Large Scale Robotic 3D Printing From VOiLA?



- 1 European-Grade Quality & Performance, Made in India**
 Our machines are designed under the visionary leadership of our Chief Technology Officer (CTO), a European expert with decades of experience in Additive Extrusion, LSAM, and Material Science.
- 2 Lower Part Costs**
 Print large, complex parts cost-effectively with our granule-fed, high-throughput Robotic 3D Printing System—a perfect synergy of Indian manufacturing and European innovation.
- 3 Robotic Milling**
 Achieve precise tolerances and smooth surface finishes with our optional milling tool for seamless process integration.
- 4 Higher Repeatability and Uptime**
 Ensure consistent performance with advanced process monitoring sensors and specialized robotic additive manufacturing software. Our system uses optimized multi-axis tool path strategies, tailored to both process and geometry considerations.
- 5 3D Printing with Recycled Plastics**
 Contribute to a sustainable future with a system that supports Circular Economy and Sustainability Goals in manufacturing.
- 6 Material Science Expertise Built into Our FGF 3D Printing System**
 We believe that 3D Printing is rooted more in material science than mechanical engineering. Our systems are designed ground-up with versatile material processability as a core capability, enabling the use of a wide range of thermoplastics and filled thermoplastic composites. The growing list of materials validated on our system include:

PP-GF	ASA	ABS-CF	PC-CF
ABS-GF	PC-GF	PETG-GF	PEI-CF



Focus Sectors



Art, Sculptures,
Display Signs



Furniture &
Lighting



Interior Design
& Architecture



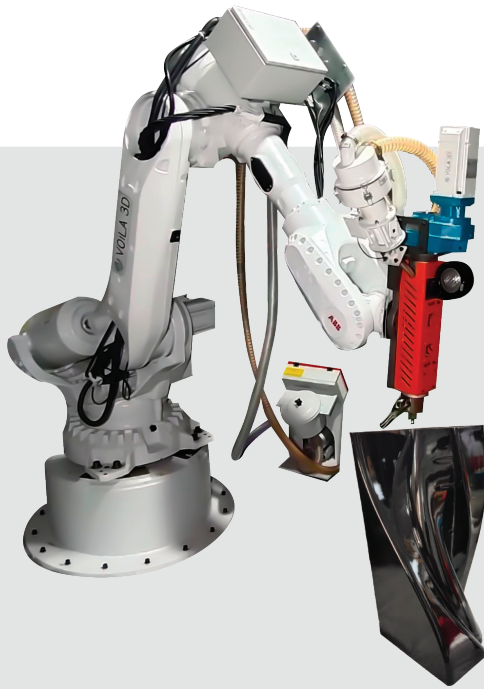
Aerospace &
Automotive
Tooling



FRP Patterns
& Molds for
Composite
Industry

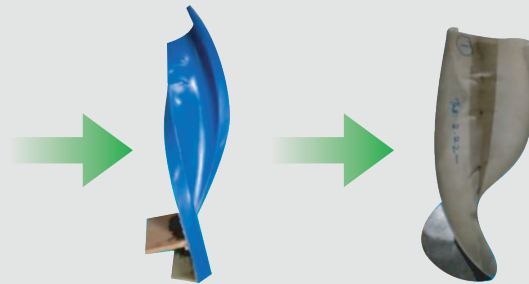


Sand Casting
Patterns &
Thermoforming
Molds



Pattern - 3D Printed
& Surface Machined

3D Printed Composite Tooling for Vertical Axis Wind-Turbine Blade



FRP Mold

Wind Blade

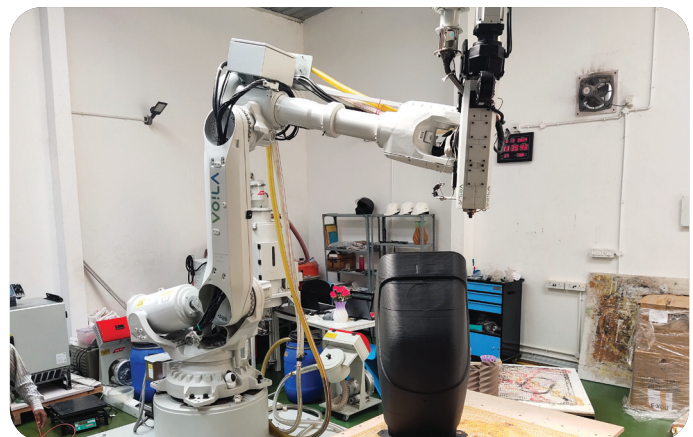
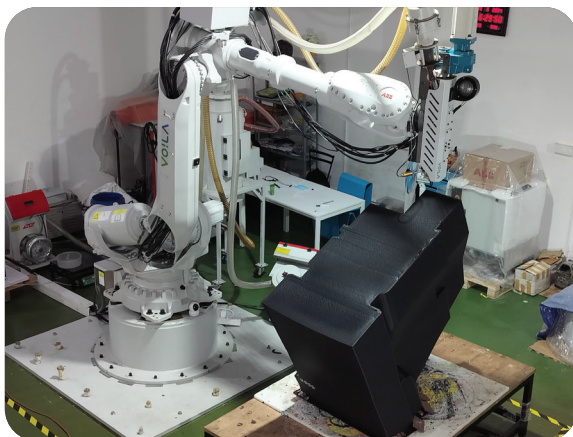
"Your Partner Beyond The Machine -Training, Support, & Success!"

VOiLA's Robotic 3D Printing Cells can be flexibly configured to meet the Large Scale Digital Fabrication needs of the customer, with paramount importance given to user-safety and process reliability.

Our solutions comprise of full-fledged hands-on training and technical support to customers to easeen the learning curve and minimize equipment downtime.



Composite Tooling For
Automotive Segment



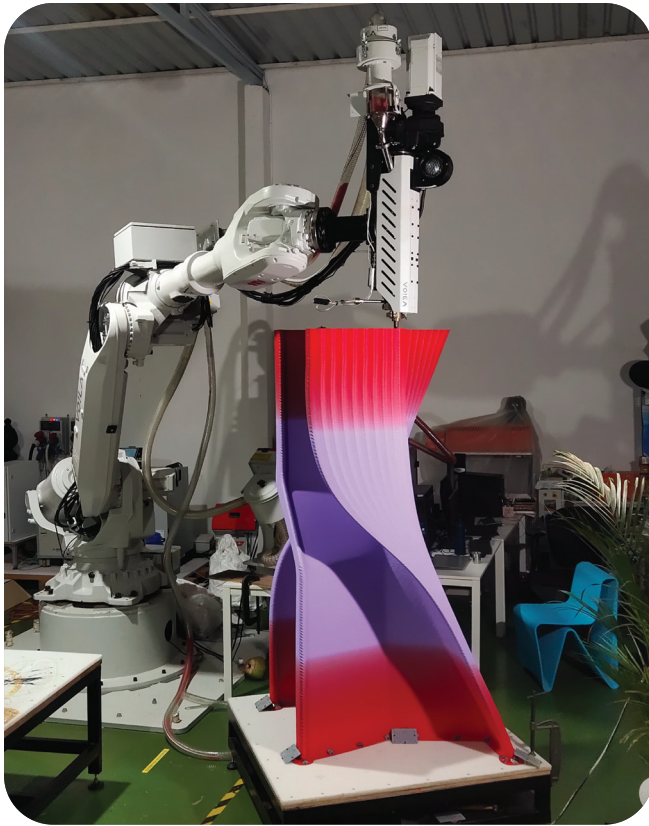
Composite Tooling for the Production of FRP Parts for Electric Vehicle Industry



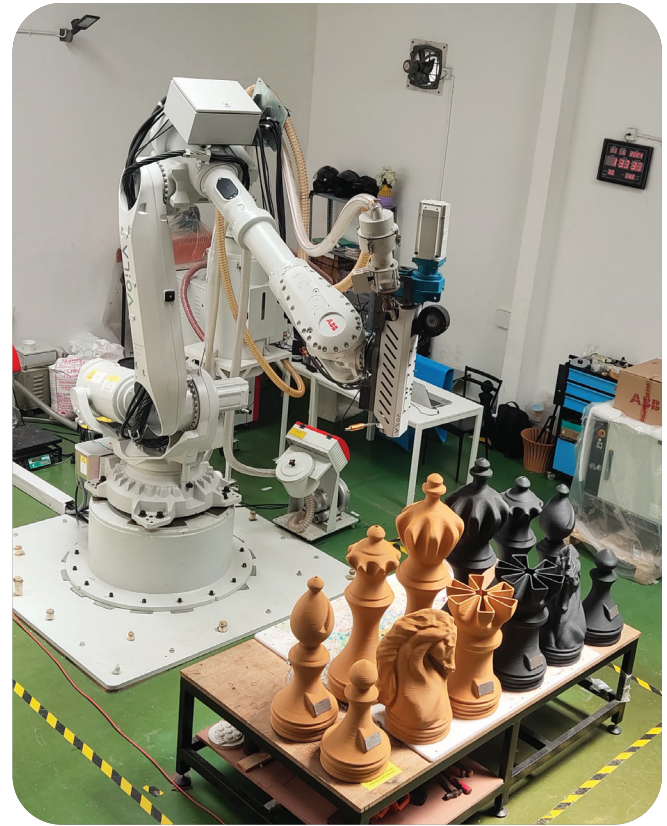
Large Signage & Branding



Scan QR code to view our LookBook of Sustainably 3D Printed Furniture & Interiors



Customized Furniture



Giant Chess Set

Contact Us

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Our work is contributing to Sustainable Development Goals 11, 12 and 13



Recognised by ABB Robotics under 'Most Innovative Solution Category' for 2023 from SOMA region