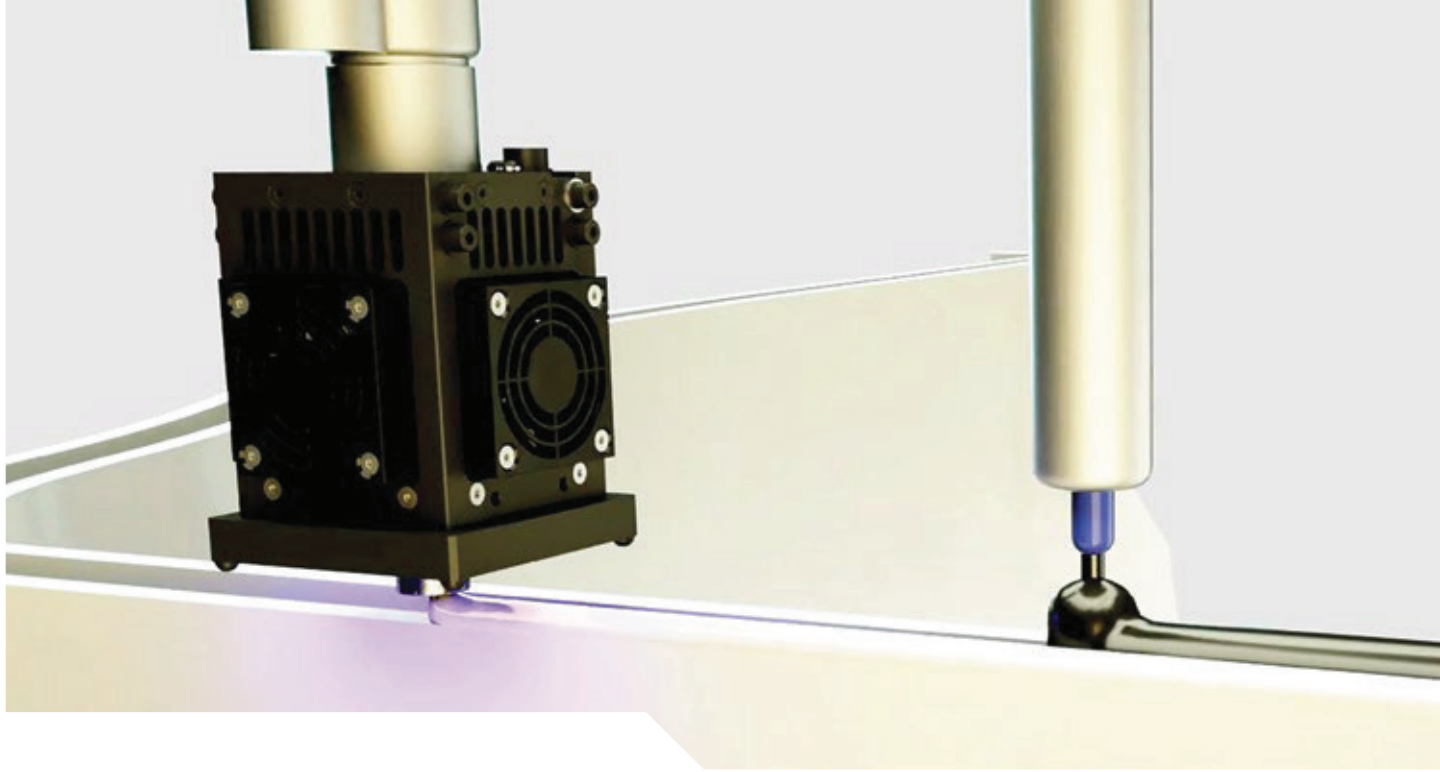
MASSIVIT 10000



FAST, COST-EFFECTIVE, AND SUSTAINABLE TOOLING FOR LARGE FRP PARTS WITH ADDITIVE MANUFACTURING

The Massivit 10000 is designed to address the tooling requirements of the automotive, aerospace, marine, energy and other industries that require manufacturing of large parts made of composite materials.

MARKET CHALLENGE

Large tools & molds traditionally used for producing fiber-reinforced composite parts are expensive, slow-to-build, wasteful, and require extensive, manual skilled labor.

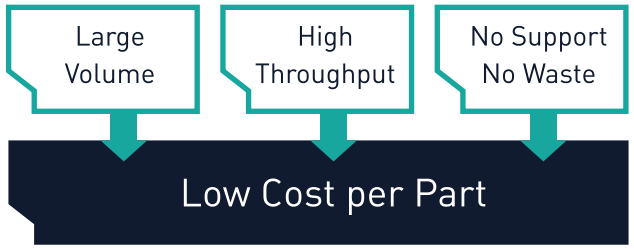
SOLUTION

The Massivit 10000 is a digital, hybrid, large format additive manufacturing system that shifts the tooling paradigm by consolidating two technologies into one, using Massivit 3D's Cast-In-Motion (CIM) process.

BUSINESS BENEFITS

- Shorten production time of molds by 80%
- Save up to 90% of manual labor
- Significantly reduce tool costs
- Simplify production, achieve higher yield
- Simplify supply chain and reduce required stocks
- Reduce waste of expensive materials

TRANSFORMING LARGE FRP TOOLING



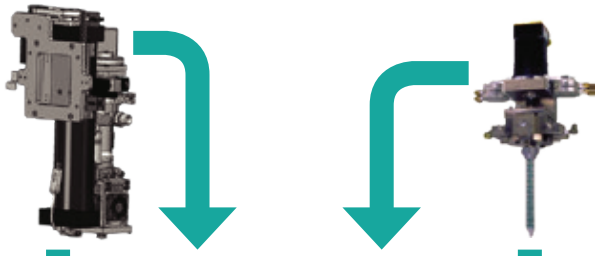
HOW THE MASSIVIT 10000 SOLUTION WORKS

- The tool pattern is created with a sacrificial, UV-curable gel using Massivit 3D's patented Gel Dispensing Technology (GDP).
- The desired tool is produced by casting any of a variety of dual-component thermoset engineering materials that closely match the mechanical and thermal process requirements.
- Once the 3D printed tool is immersed in water, the sacrificial pattern material breaks off, leaving the desired mold, ready to use.

TECHNICAL ADVANTAGES

- Design freedom allows mold production of function-oriented, intricate geometries
- Better and faster tool design cycle – including many features – reduces iterations
- Release production equipment increases overall capacity
- CAD part to CAD mold design enables improved accuracy, consistency and higher reliability
- Versatility and multiple casting materials optimize the use of the system

The Cast In Motion Advantage



SACRIFICIAL PATTERN

- Complex shapes
- High throughput
- No support, no waste
- Resolution
- Accuracy

CASTING

- Mechanical strengh
- Thermal resistance
- Chemical resistance
- Isotropy
- Long term performance

COST-EFFECTIVE MOLDS AND TOOLS

TECHNOLOGY

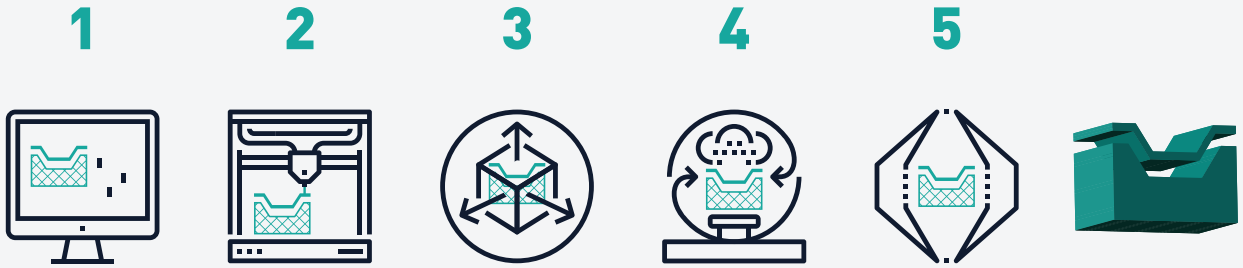
Massivit 3D's disruptive, end-to-end tool & mold making solution comprises pioneering hardware, software and chemistry. It facilitates fast, efficient and waste-less manufacturing with unlimited size and volume capabilities. Massivit 3D's technology is protected by a wide intellectual property portfolio containing 52 active patent assets.

MASSIVIT 3D

Massivit 3D (www.massivit3D.com) is a pioneer of large-scale, additive manufacturing solutions comprising 3D printing systems, software, consumables, customer support, and professional services. Leveraging its proprietary Gel Dispensing Printing (GDP) technology, the company's solutions enable the swift production large-scale tools and fixtures.

Massivit 3D's initial portfolio of solutions were launched commercially in 2016. Founded in 2013 by a team of recognized industry experts, the company is headquartered in Lod, Israel, and provides its worldwide community with end-to-end services supported through an extensive dealer network.

THE MASSIVIT 10000 MOLD-PRODUCTION WORKFLOW



MASSIVit 3D

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