DEMGY Group, which will exhibit at JEC World 2025, March 4-6, revolutionizes industry with sustainable, intelligent plastic and composite solutions

Hall 5 - Booth B64

Please contact us to arrange a meeting with a DEMGY Group spokesperson to find out about the Group's latest news & innovations at JEC

St-Aubin-sur-Gaillon, February 12, 2025 - ***DEMGY Group, a technological company specialized in innovative plastics processing, is redefining industry standards by designing and manufacturing high-performance plastic and composite solutions. These innovations, which are lighter than metal, reduce carbon footprints while promoting significant energy savings. With its unique circular Multiplasturgy® offering, a veritable one-stop shop bringing together its 15 areas of expertise, DEMGY offers solutions that are both high-performance and sustainable, integrating an infinite cycle thanks to an innovative eco-design approach.***

circular Multiplasturgy®: a circular model for industry.

DEMGY's unique circular Multiplasturgy® offering is a one-stop shop combining 15 areas of expertise in high-performance polymer and composite processing technologies, serving the aerospace, automotive, medical, luxury goods and industrial markets. circular Multiplasturgy® is based on eco-design, end-of-life management and product recyclability. The aim is to guarantee an infinite cycle, integrating product end-of-life and recyclability right from the design phase

With its 3 R&D centers, the DEMGY Group is a driving force in innovation.

Drawing on the expertise of its three R&D centers, DEMGY Group creates innovative production processes to meet its customers' requirements for the design and manufacture of complex parts. Following are some of the solutions developed by DEMGY Group and presented at JEC World 2025:

Thermoplastic composites: when innovation rhymes with performance.

- With its Flaxcomp® expertise, DEMGY innovates in processes adapted to plant fiber-reinforced polymers and composites, to create products that are lightweight, robust and eco-friendly.

- DEMGY's net-shape technologies make it possible to produce composite parts with complex and hollow geometries without any waste.


©Chapoget - For the Cabin Trunk created by the Maison CHAPOGET, DEMGY manufactured all of the linen composite panels - Flaxcomp®

Reduce, Reuse, Recycle: DEMGY's 3R strategy for waste recovery.

- Developed in collaboration with Decathlon, the *sport-to-sport* project perfectly embodies DEMGY's 3R strategy - Reduce, Reuse, Recycle - to optimize product end-of-life and waste management. It includes the following objectives:
  - ✓ Reduce the number of products reaching the end of their life cycle.
  - ✓ Reuse products or parts of products considered to be waste.
  - ✓ Recycling raw materials.

- The *sport-to-sport* project* is also a new style of high-performance composites production that transforms waste into components or finished products. *Sport-to-sport* is based on the innovative *Press&Make* process, which enables a sports shoe to be manufactured in a single step, without gluing or waste.


©DEMGY - New shoe models on display at the DEMGY stand

* The SPORT2SPORT project is a collaborative project between DECATHLON and DEMGY, subsidized by France 2030 and supervised by ADEME, as part of an industrialization process for RRR products (reduce, reuse, recycle).

- Stamping processes for thermoplastic matrix composites are used for high-volume production.

©DEMGY – Aerospace components

Composite production transforms metal structures into plastic parts, which are much lighter and less costly.

At its site in Euskirchen, Germany, DEMGY EIS designs and builds individual and customized components for aircraft interior. With our EASA Part 21J, 21G and 145 approved site, we can offer full service for aerospace customers from design to production and maintenance of parts.
With a comprehensive range of plastic parts in various high-temperature certified and fiber-reinforced materials (thermosets), DEMGY EIS transforms metal structures into lighter, less costly plastic parts.

©DEMGY - Composite class divider

L'ATELIER 3D by DEMGY for additive manufacturing and selective metallization comprises two types of technology.

- Powder bed technology, which uses PEKK or PEKK 100 natural or PPS carbon fiber-reinforced solutions, as well as biobased PA11, combined with selective metallization. Selective metallization is a major area of development for DEMGY to protect or to add functionality to surfaces. These deposits improve electrical and/or thermal conduction properties and enhance the mechanical or chemical potential of surfaces.
- Wire deposition technology for the deposition of composites - continuous carbon fibers in PEKK matrices.

©DEMGY - Example of an additive manufacturing demonstrator with addition of selective metallization for electrical conductivity

DEMGY Group, official distributor of the exclusive Vespel® / Polyimide Vespel (extreme high-performance) and Torlon and PEEK high-performance polymers (HPP).

- As an authorized distributor in France for all parts and semi-finished products in the DuPont Vespel® polyimide range for over 20 years, DEMGY has developed unique skills in extruding ultra-high-performance polymers into semi-finished shapes.
- In 2024, DEMGY formed a strategic alliance with DRAKE Plastics Ltd. Co to offer its customers a wider range of innovative solutions in ultra-high-performance and extreme-performance plastic products (TORLON, PEEK...).
- With over 27 2- to 6-axis CNC turning centers and 21 3- to 6-axis CNC milling centers, DEMGY is a key player in the field of high- and micro-precision machining. Machining of high-performance plastic parts requires very high precision (for example, the production of holes with a diameter of 0.07 mm).

©DEMGY - Example of micromachined parts

A sustainable vision for the future

With its unique expertise and constantly innovating R&D centers, DEMGY Group reaffirms its commitment to a more responsible and sustainable industry. Thanks to its *circular Multiplasturgy®* offering and its one-stop-shop model, the Group has established itself as a leader in the ecological transition of the plastics industry, both in France and internationally.

About DEMGY Group, sustainable & smart plastic solutions:

Founded in 1947 (historically Dedienne), DEMGY Group is an innovative plastics technology group that designs and manufactures high-performance plastic and composite solutions, lighter than metal, to reduce the carbon footprint and promote energy savings in sectors with a high carbon footprint. DEMGY is actively involved in the process of decarbonizing industry

Its circular Multiplasturgy® offering, a one-stop shop for its 15 areas of expertise, starts with eco-design, which enables upstream management of the end-of-life of products and their recyclability.

The Normandy-based Group has 4 sites in France, including its head office in St-Aubin-sur-Gaillon (Eure - 27), 2 in Germany, 2 in Romania, 1 in the United States, as well as 3 R&D centers.

In 2024, DEMGY Group generated sales of 100 million euros, 7% of which was invested in R&D and capital expenditure. DEMGY employs 800 people.