

CANPR117EN**PRESS RELEASE**

CANNON to Showcase Next-Generation Composite Manufacturing Technologies at JEC World 2026

Advanced engineering solutions for efficient, high-performance composite manufacturing

Caronno Pertusella, Italy, January 20, 2026 - At JEC World 2026, the leading global exhibition for composite materials, held March 10 to 12 in Paris, The Cannon Group will present a portfolio of integrated manufacturing technologies developed through its long-term investment in research and development. These solutions are designed to improve efficiency, process control, and performance for thermoset and thermoplastic composite applications, while enabling more flexible, energy-efficient, and industrially scalable production processes.

Solutions for Aerospace and Defense Composites

CANNON will emphasize its capabilities in aerospace and defense composite manufacturing, where process reliability, performance, and quality are critical. The Group will present validated solutions for both thermoplastic and thermoset materials, including advanced thermocompression lines, patented vacuum technologies, and controlled resin injection systems. These technologies support the production of lightweight, high-performance composite components while meeting the stringent standards required by aerospace and defense programs.

NEXUS, the Intelligent Mold Thermoregulation System

Among the highlights is NEXUS, CANNON's patented and market-ready mold thermoregulation system. NEXUS introduces a new approach to temperature management by using the physical properties of composites not only as structural reinforcement, but as heating elements integrated into the mold itself. It enables differentiated and precisely controlled thermal zones directly on the mold surface, supporting shorter cycle times, improved energy efficiency, and advanced process optimization, particularly for RIM and thermoset composite applications, opening up manufacturing scenarios not achievable with conventional heating systems.

POSSIBLE: Advancing Circularity in Polyurethane Composite Manufacturing

CANNON will also present POSSIBLE (PrOduce SuStainabLE Industrial Bodies), a technology development project focused on end-of-life recycling and reuse of polyurethane (PU) and PU glass-fiber reinforced composites. The project demonstrates the recovery and reintegration of recycled foams and composite granulates as secondary reinforcement materials in new PU-based formulations, supporting a more circular manufacturing approach.

Through dedicated process solutions, recovered materials can be reintroduced into production in powder or granular form, using controlled feeding and mixing technologies. Depending on material characteristics and target formulations, recycled content can be integrated at industrially relevant rates, while maintaining process stability and component performance.

High-Tonnage Compression Molding Expertise

CANNON will underscore its short-stroke press concepts and the project developed with TEP - Taylor Engineering & Plastics, engineered to deliver high performance and precision even in production environments with limited ceiling height. This approach combines compact machine design with flexibility and productivity, supporting a wide range of composite manufacturing applications.

At JEC World 2026, CANNON can be found at Booth 5M72.



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About CANNON

CANNON is the world's leading supplier of dosing units and mixing equipment, offering an extensive range of processing technologies for molding, pouring, casting, spraying, forming, injection, pultrusion, thermoforming, and manufacturing abilities for resins such as polyurethanes, silicones, elastomers, epoxy resins, phenolic foams, bi-component adhesives, and composites. CANNON designs, manufactures, and installs the full scope of equipment — from single mixing heads and stand-alone dosing units to complex customized, turnkey production plants — incorporating an array of technologies, including Interwet-LFI, SMC, and HP-RTM, customized preformers, molds, stacking lines, and industrial presses, raw chemicals storage and handling systems coupled with foaming lines, that serve diverse demanding industries. CANNON is part of The Cannon Group, an engineering group with expertise spanning reactive polymer solutions, turnkey plants, industrial boilers, water treatment systems, artificial intelligence, aluminum die-casting machines, and industrial automation. Find out more at: cannon.com

LinkedIn: [Cannon PU, Elastomer & Composite Technologies](#)

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Images



Caption:
Two examples of CANNON plants for composite processing (Photos: The Cannon Group).