



MEDIA ADVISORY

March 4, 2026

## Excelitas to Showcase humm3 Flashlamp System at JEC World

**WHO:** [Excelitas®](#), a leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor and avionics sectors, will display its [humm3® Flashlamp System](#) at [JEC World 2026](#).

**WHAT:** At Booth #6C68, Excelitas product experts will demonstrate how humm3 enables high intensity photothermal processing with precise power control and uniform energy delivery. As composite manufacturers pursue lighter structures, higher performance and faster production, humm3's modular flashlamp design allows scalable heating for high deposition processing. The technology delivers reliability and control to support automation and process consistency across demanding material systems applications:

- **Aerospace:** humm3's flashlamp-based photothermal processing technology delivers unmatched precision and control for dry fiber lay-up of large composite structures. In aerospace applications such as wing skins, spars and control surfaces, humm3 provides fast, uniform heating that enables highly consistent tack levels without hotspots or thermal degradation. Its broad-spectrum energy delivery ensures stable processing, supporting automated lay-up at production scale.
- **Energy:** Beyond traditional epoxy-based systems, humm3 accelerates the transition to thermoplastic composites across the hydrogen energy sector. It delivers high-intensity heat for thermoplastic filament winding of hydrogen delivery pipes and Type IV/V pressure vessels for H<sub>2</sub> storage. Rapid on/off cycling and instantaneous power modulation give manufacturers unprecedented control over melt temperatures, consolidation quality and interlayer bonding, which is critical for safe, lightweight and durable hydrogen infrastructure.
- **Advanced Materials:** Featuring the capability to heat materials at extreme temperatures without direct contact, humm3 enables accurate preform consolidation and localized processing where traditional laser or IR methods fall short. This makes it ideal for high-temperature ceramic matrix composites (CMCs) used in demanding aerospace and defense environments such as thermal protection systems, engine shrouds and hypersonic structures.

**WHEN:** March 10 – 12, 2026

**WHERE:** Excelitas Booth #6C68  
Paris Nord Villepinte Exhibition Centre, Villepinte, France

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**About Excelitas**

Excelitas is a leading provider of advanced, life-enriching technologies that make a difference, serving global market leaders in the life sciences, advanced industrial, next-generation semiconductor and avionics end markets. Headquartered in Pittsburgh, PA, USA, Excelitas is an essential partner in the design, development and manufacture of advanced technologies, offering leading-edge innovation in sensing, detection, imaging, optics and specialty illumination for customers worldwide. Excelitas is at the forefront of addressing many of the relevant megatrends impacting the world today, including precision medicine, industrial automation, artificial intelligence and connected devices (IoT).

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