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PRESS INFORMATION

Our metal is called Grivory – EMS-GRIVORY: Your development partner for cost saving solutions

At EUROGUSS 2026 in Nuremberg (Germany) EMS-GRIVORY will demonstrate how modern metal replacement is successfully implemented today. Under the slogan "Our metal is called Grivory," EMS-GRIVORY shows that high-performance polymers can not only replace metal in many applications, but can even surpass it in terms of efficiency, cost-effectiveness, and sustainability.

With its headquarters in Domat/Ems, Switzerland, and more than 80 years of industrial history, EMS-GRIVORY stands worldwide for innovation, materials expertise, and collaborative development. Grivory offers metal-like mechanical properties, high design freedom, and significant cost and weight advantages – both as a complete metal replacement and in hybrid components where high-performance polymers and metal are intelligently combined.

Efficient metal replacement with Grivory

Metal replacement with Grivory enables cost reductions of up to 50 % and weight savings of up to 70 %, while maintaining the same level of performance, safety, and service life. In hybrid components, the respective strengths of the materials are are optimally utilized: metal in areas that cannot be replaced due to technical requirements, and Grivory in areas focused on weight reduction, functional integration, and cost efficiency. Injection molding allows the realization of complex geometries, integrated functions, and ready-to-assemble solutions. Time-consuming post-processing steps such as deburring, turning, milling, painting, as well as corrosion issues, are eliminated when using Grivory.

The ABS solenoid valve for trucks is now manufactured from Grivory instead of aluminum, offering lower costs and energy-efficient production.

Metal replacement with Grivory in practice

An impressive example of successful metal replacement is the ABS solenoid valve for trucks braking systems. This safety-relevant component was converted from aluminum to Grivory and delivers outstanding reliability at significantly lower cost. The component weight was reduced by around one third, while manufacturing costs decreased by approximately 30 %. Thanks to energy-efficient processing, up to 25 % energy savings can also be achieved, and the CO_2 footprint is

reduced by about 60 %. At the same time, the ABS solenoid valve meets the highest safety requirements and clearly exceeds the required service life with several million braking cycles. This is clear evidence that Grivory can replace metal even in safety-relevant applications.

In addition to the economic benefits, sustainability plays a key role. The use of bio-based and certified sustainable raw materials makes a significant contribution to reducing emissions across the entire product life cycle.

As a development partner for cost-efficient solutions, EMS-GRIVORY supports its customers from the initial idea through simulation, material and component design, all the way to series production. Whether complete metal replacement or intelligent hybrid components, EMS-GRIVORY works together with its customers to develop innovative, economical, and sustainable solutions. Visit EMS-GRIVORY from January 13–15, 2026 at EUROGUSS in Nuremberg (Hall 5, Booth 5-356) and discover why our metal is called Grivory.

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