

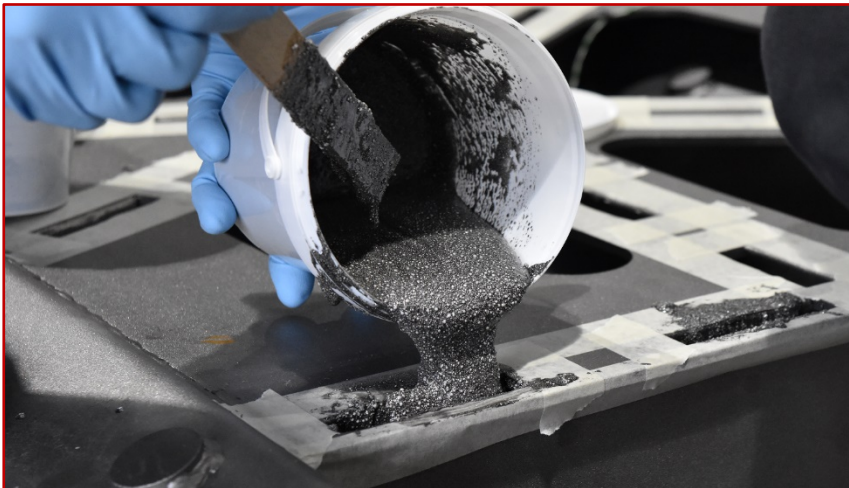
# Brand New From RAMPF – Highly Damping & Extremely Lightweight Construction Filler EPUMENT<sup>®</sup> Ultralight Flow

Machine builders benefit from simple manufacturing processes, reduced lead times, lower costs, and reliable availability

© RAMPF Machine Systems GmbH & Co. KG

Page 1 of 3

Wangen (Göppingen), Germany, September 28, 2023. The brand-new lightweight construction filler EPUMENT<sup>®</sup> Ultralight Flow from RAMPF Machine Systems for dynamically moving components in mechanical engineering stands for minimum weight, maximum vibration damping, low costs, reduced throughput times, reliable availability, and a sustainable manufacturing process.



EPUMENT<sup>®</sup> Ultralight Flow – the lightweight and vibration-damping solution for rising raw material and energy costs and disrupted supply chains.

EPUMENT<sup>®</sup> Ultralight Flow is a completely new material based on epoxy resin with an extremely low density of  $< 1 \text{ g/cm}^3$  and outstanding vibration damping properties. It is ideally suited as a filler for dynamically moving components.

Dr. Thomas Abel, Director of Laboratory at RAMPF Machine Systems – “In all machines with highly dynamic processes, the vibration-damping filling of moving components significantly improves accuracy and performance. This is true both for classic tooling and laser as well as production machines for the semiconductor industry. In addition to improved vibration damping, filling with EPUMENT<sup>®</sup> Ultralight Flow helps to increase the rigidity of the filled components.”

These components are typically made of gray cast iron, complex welded steel construction, aluminum, or carbon fiber reinforced plastics. However, due to the current market situation, it is increasingly difficult to procure these materials at reasonable prices and in a timely manner. The new RAMPF technology, on the other hand, only requires simple welded thin metal sheets that are filled and then machined.

**Brand New From RAMPF – Highly Damp-ing & Extremely Lightweight Construction Filler EPUMENT<sup>®</sup> Ultralight Flow**

Machine builders benefit from simple manufacturing processes, reduced lead times, lower costs, and good availability

Dr. Thomas Abel – “For machine builders this means lower costs, reduced lead times, and good availability, together with maximum vibration damping and minimum weight. We offer our customers a complete service – from design and construction of the filled frame component to the production of the shell, filling, precision machining, and final completion.”

Like EPUMENT<sup>®</sup> Mineral Casting, Ultralight Flow is cast cold in molds and hardens at room temperature.

**Brand New From RAMPF – Highly Damp-ing & Extremely Lightweight Construction Filler EPUMENT<sup>®</sup> Ultralight Flow**

Machine builders benefit from simple manufacturing processes, reduced lead times, lower costs, and good availability

[www.rampf-group.com](http://www.rampf-group.com)



**RAMPF Machine Systems GmbH & Co. KG**, based in Wangen (Göppingen), Germany, is the leading supplier and development partner for system solutions, trunk machines, and basic machines, as well as multi-axis positioning and moving systems based on high-precision machine beds and machine bed components made from alternative materials.

The portfolio of high-performance materials includes mineral casting, ultra-high performance concrete (UHPC), natural hard stone, metal foam, and fiber composites. These materials provide a solid basis for ultra-precise and high-performance machine beds and machine bed assemblies.

The full range of services provided by the company includes everything from engineering to production, as well as assembly, system solutions, customer-specific multi-axis positioning and moving systems, and basic machines – from single-piece to series production in customized supply chain solutions.

Using innovative casting, grinding, and lapping processes, as well as high-performance assembly and testing equipment in temperature-controlled production environments, exceptional accuracy of machine bases and basic machines is guaranteed.

RAMPF Machine Systems is a company of the international **RAMPF Group** based in Grafenberg, Germany.

Published by:  
**RAMPF Machine Systems GmbH & Co. KG**  
Daimlerstrasse 18 - 26  
73117 Wangen (Göppingen), Germany  
T +49.7161.95889-0  
F +49.7161.95889-29  
E [machine.systems@rampf-group.com](mailto:machine.systems@rampf-group.com)  
[www.rampf-group.com](http://www.rampf-group.com)

Your contact for images and further information:  
Benjamin Schicker  
**RAMPF Holding GmbH & Co. KG**  
Albstrasse 37  
72661 Grafenberg, Germany  
T +49.7123.9342-1045  
F +49.7123.9342-2045  
E [benjamin.schicker@rampf-group.com](mailto:benjamin.schicker@rampf-group.com)