

## Press release

### **EREMA sees growing demand for large-scale PET recycling systems**

### **VACUREMA<sup>®</sup> machines recycle up to 6 tonnes of PET per hour**

**Demand for high performance solutions for bottle-to-bottle recycling is increasing worldwide. In view of this trend, the specifications for PET recycling machines to handle higher capacities are also growing. With VACUREMA<sup>®</sup> technology, EREMA offers a proven system that enables throughputs of up to six tonnes per hour.**

Ansfelden, 13. March 2025 - "While the bottle-to-bottle market initially tended towards 3-tonne machines, over the past three years we have been seeing increasing demand for PET recycling solutions with throughputs in excess of three tonnes per hour," says Christoph Wöss, Business Development Manager for the Bottle segment at EREMA. In total, a dozen VACUREMA<sup>®</sup> machines with throughput capacities of four to six tonnes have been installed and commissioned worldwide since 2020. "Together, these large recycling machines produce almost 350,000 tonnes of rPET per year, which is a clear sign that this order of magnitude is now commonplace in the industry," adds Christoph Wöss.

#### **The highest throughput capacities with maximum flexibility**

With VACUREMA<sup>®</sup> technology, EREMA offers a proven system for throughputs between 600 and 6000 kilograms per hour. This technology achieves impressively efficient decontamination and gentle IV treatment and fulfils the strict requirements of the European and North American food safety authorities. Even the basic version produces food-grade rPET, providing the basis for a wide range of end applications. Whether the pellets are then used with SSP for IV adjustment for bottle-to-bottle or high IV applications, an additional upstream vacuum treatment enables direct connection to preform production, or the material is processed inline into sheets or fibres, the VACUREMA<sup>®</sup> is a versatile all-rounder with food-grade certification. "This versatility allows users to react flexibly to changes in the market and fluctuations in demand, an important advantage in a dynamic market environment," says Christoph Wöss.

#### **Advanced VACUNITE<sup>®</sup> technology for the highest rPET quality**

Applications with especially high material quality requirements are covered by advanced VACUNITE<sup>®</sup> technology. It combines the proven VACUREMA<sup>®</sup> system with integrated vacuum-assisted SSP in a nitrogen atmosphere. This combination further optimises the material properties and significantly reduces the yellowing of the pellets, which is an important quality factor in bottle-to-

bottle recycling. What is more, the closed nitrogen cycle and optimised process control ensure even lower nitrogen consumption, and ultimately, a particularly efficient and environmentally friendly process. VACUNITE® technology is available on machines for throughputs of up to 2500 kilograms per hour that feature particularly low energy consumption and a compact design.

### **EREMA at Chinaplas**

"In several markets, like Latin America, there is a clear trend towards larger PET recycling machines. We expect the market to develop this way in China too, to meet the increasing demand for high-quality rPET suitable for sensitive applications such as food packaging," says Christoph Wöss. EREMA has already installed more than 50 VACUREMA® and VACUNITE® systems in China, but only a few with throughputs in excess of four tonnes per hour. Christoph Wöss sees opportunities here: "For Chinese recyclers, the bandwidth and flexibility of the VACUREMA® and VACUNITE® systems offer great potential for a wide variety of applications. We are looking forward to discussing the various options in more detail at Chinaplas." EREMA will be represented in Hall 10, Stand B41.

Visit EREMA at Chinaplas 2025: **Hall 10, Stand: B41**

### **Photos:**



VACUREMA® system for bottle-to-bottle recycling: flexible technology that enables throughputs of up to 6 tonnes per hour and produces food-safe rPET even with the basic version.



"The need for high-performance PET recycling systems is growing. More and more customers are specifying large-scale systems with higher throughput capacities to meet the increasing demand for high-quality rPET," says Christoph Wöss, Business Development Manager for the Bottle segment at EREMA ahead of Chinaplas.

Photo credits: EREMA GmbH

#### **EREMA Engineering Recycling Maschinen und Anlagen GmbH**

Since its founding in 1983, EREMA Engineering Recycling Maschinen und Anlagen Ges.m.b.H has specialised in the development and production of plastics recycling systems and technologies for the plastics processing industry and is regarded as the global market and innovation leader in these sectors. The company is part of the Austrian group of companies EREMA Group GmbH based in Ansfelden/Linz, which employs around 950 people worldwide.

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