**The highest melt quality at the highest throughput**

**EREMA raises the bar: laser filter screen area doubled**

**At K 2025, EREMA launches a POWERFIL brand innovation that sets new standards in melt filtration for plastics recycling. The new LF 812 high-performance filter has twice the screen surface area of the previous premium model, the LF 406, extending the series upwards.** **Another new feature is the integration of the proven Lock & Change system for changing screens during operation in the Endurance filter, which handles the pre-filtration of heavily contaminated input streams such as unwashed materials.**

Ansfelden/Düsseldorf, 10 October 2025 - "This latest development in our laser filter sees us take a decisive step towards meeting the growing demands for high throughputs in plastics recycling at the same time as achieving the highest quality of melt," says Markus Huber-Lindinger, Managing Director at EREMA. The 100 percent larger screen surface of the new LF 812 laser filter boosts throughput, or maintains throughput while using screens with finer filters, which is particularly advantageous for quality-driven applications. Thanks to the larger surface area of the filter, it is also possible to operate at lower pressure and with less thermal load.

**Maximum screen area, minimum space requirement**

Up to 5,000 kilogrammes of melt can be filtered per hour with the single version of the new laser filter. "As a leading provider of plastics recycling machines, at EREMA we focus our experience and technical expertise on equipping large-scale systems with high-performance filtration in a compact design," says Markus Huber-Lindinger. The single version of the LF 812 laser filter covers applications with throughputs that previously required multiple filter units. "The major increase in surface area opens up new scope for system design. In many cases, this results in smaller space requirements and a more compact overall solution," adds Robert Obermayr, Product Group Manager for POWERFIL at EREMA.

This innovation sees EREMA continue its theme of increasing throughput: At K 2022, the company presented the LF 406 laser filter with a screen area of almost 2,000 square centimetres; an increase of 50 percent compared to the LF 356. The launch of the LF 812 increases the area of the screen by a further 100 percent. Combined with the new INTAREMA® 2021 TVEplus®, which has a throughput of up to 3.5 tonnes per hour, the potential of the new high-performance filter becomes clear: now the system can operate with one continuous extruder without a cascade configuration. The prerequisite for this is the new LF 812 size of EREMA laser filter, which is available either as a SINGLE version, or as a TWIN configuration for more demanding applications. EREMA generally offers its laser filters as SINGLE, TWIN, TRIPLE, and QUATTRO versions. Which configuration is ultimately the most suitable depends on each customer's specific process requirements.

**Lock & Change now integrated into the Endurance filter**

What is also new at POWERFIL is the integration of the proven Lock & Change system into an Endurance filter. The Endurance filter handles coarse pre-filtration and protects the laser filter when processing unwashed material or input streams that are difficult to clean. Lock & Change makes it possible to change the screen during operation without interrupting production. In combination with the shut-off function on the Lock & Change system (available starting with the TWIN version), the machine continues production even while one of the sets of screens is being changed. This increases system uptime and contributes to stable process control with challenging material streams.

Like on this latest expansion, EREMA is constantly working on developing POWERFIL filtration systems and matching them to customers' specifications to reduce their ongoing operating costs (OPEX). In spring 2024, the company launched the intelligent DischargePro control system for automatically adapting to fluctuations in the input material. This has since become well established in the field. Initial results indicate a significant reduction in material losses because the filter can be operated more consistently. Depending on the system configuration and the material being recycled, potential annual savings are between EUR 50,000 and 70,000.

**Manufactured inhouse for the highest quality and supply chain security**

High-quality, high-performance filters continue to gain in importance in plastics recycling. The EREMA Group is responding to this by expanding inhouse manufacturing of filter components at 3S in Wartberg, a company that is also part of the EREMA Group. Investments in new production and heat treatment technologies increase vertical integration to ensure consistently high component quality. That is how EREMA strengthens supply chain security for customers who rely on the company's recycling systems and components.

**Live at K 2025**

The new LF 812 laser filter and the integrated Lock & Change and Endurance filter system can be seen on the EREMA stand in Hall 9.

**Edvanced Recycling powered by EREMA**

The current campaign *Edvanced Recycling - EREMA Prime Solutions for Advanced Recycling* sees EREMA present a wide range of advanced plastics recycling solutions. More than 40 years of experience combined with practical application expertise are the basis for EREMA systems consistently delivering high-quality recycled pellets to meet precise quality specifications, from food and cosmetic grade to more straightforward applications. *Edvanced Recycling* shows how EREMA is working together with its customers to sustainably increase the proportion of recycled materials used to make new plastic products. All the information is available online at [edvanced.erema.com](https://edvanced.erema.com/)

Find out more and visit EREMA at K 2025: **Hall 9, Stand: C09**and at the *Edvanced Recycling* Centre: **Outdoor area, CE03**

**Photo:**

<<Picture 1>>

Markus Huber-Lindinger, Managing Director of EREMA, presents the new LF 812 laser filter on the EREMA stand at K 2025.

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. With POWERFIL filter systems, the company offers high-performance plastic melt filters that can handle the most challenging tasks. EREMA is a member of the Austrian group of companies EREMA Group GmbH based in Ansfelden/Linz, which employs around 860 people worldwide

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