Press release

The new INTAREMA® sets the benchmark in plastics recycling

New EREMA polyolefin plant outputs more than 4 tonnes per hour

Premiere at EREMA: the new INTAREMA® 2325 sees the world's leading manufacturer of plastics recycling systems grow its post-consumer series to enter a new dimension in recycling. The INTAREMA® 2325 T-VEplus® RegrindPro® with laser filter is the largest system ever built to recycle polyolefin regrind and marks a milestone in the very latest recycling technology.

Ansfelden, 16 October 2024 - As the demand for recycled plastics increases, so does the need for larger recycling machines. This is an industry where EREMA can draw on a wealth of proven experience. In the PET sector, the machine manufacturer has already implemented several projects with large-scale systems of this magnitude featuring their VACUREMA® technology. Now the company is following that up in polyolefin recycling. The new size of INTAREMA® is EREMA's response to market demand. "New legislation and the voluntary commitment of major product brands mean that in the future, our customers will need to process an increasing volume of plastic waste to make high quality recycled pellets without any compromises," says Markus Huber-Lindinger, Managing Director at EREMA. "The INTAREMA® 2325 is our answer to this need."

More recycled pellets per hour

The INTAREMA® generation of machines is EREMA's flexible series for handling a wide variety of feed materials. Available in 13 sizes for film and 9 sizes for regrind applications, the INTAREMA® range covers a broad spectrum. The new 2325 model with a preconditioning unit (PCU) diameter of 2.30 metres and an extruder screw with a diameter of 250 millimetres enables the production of high volumes of high-quality recycled pellets using a single machine. "With a throughput of over 4,000 kilograms per hour for PO regrind, the INTAREMA® 2325 sets new standards in terms of performance and efficiency," emphasises Huber-Lindinger. The system also impresses with its compact footprint in contrast to its high throughput capacity.

Consistent processes combined with a high level of automation

The plant is packed with innovative technology. The proven key principle of the TVEplus® Counter Current® system lies in melt filtration upstream of extruder degassing. This makes it possible to produce recycled pellets of impressively high quality, meaning that the proportion of recycled

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plastics used in the final product can be significantly higher than with lower-quality recycled pellets. "Our extensive trials with around 500 tonnes of material have shown that the INTAREMA® 2325 impresses with high-quality recycled pellets at high throughput rates, all within a very stable process," says Sophie Pachner, R&D Manager for Process Engineering at EREMA.

Like all INTAREMA® systems, this one is also equipped with patented Counter Current® technology. The plastic material moves through the preconditioning unit in the opposite direction to the extruder screw, ensuring a consistently high output over a wide temperature range. This system, combined with a high degree of automation thanks to the intelligent Smart Start® user interface and energy-saving ecoSAVE® technology, makes the INTAREMA® series particularly user-friendly and efficient.

Largest laser filter ever

"We are convinced that the INTAREMA® 2325 is capable of achieving very high throughputs even with challenging process parameters," says Huber-Lindinger. "This machine is further proof of our company's outstanding engineering capabilities and our willingness and expertise to solve major challenges in plastics recycling."

Many of the specially built, large-scale components were installed and matched together for the first time during this project, such as 690-volt motors and the largest laser filter system ever built by EREMA. The 2/406 Quattro Laser Filter has a total filter area of 7,800 square centimetres and contributes to the high stability of the plant thanks to its robust design and precision filtration. The control panel array is also something new. At 12 metres long, the electrical container is imposing, but it is compact relative to the size of the machine. The well-thought-out configuration makes prior installation, transport and maintenance work particularly straightforward.

Machine available at short notice

EREMA offers machines for all applications, from small through to XXL sizes. From small systems for production waste with a throughput of around 100 kilograms per hour to large-scale PET systems with an output of 6,000 kilograms per hour, the company’s product range covers the whole spectrum. "The INTAREMA® 2325 fits perfectly into our wide product portfolio and enables us to respond even more specifically to the needs of our customers," says Huber-Lindinger.

The INTAREMA® 2325 is available immediately and can currently be purchased through EREMA's Fast Track scheme, which offers selected machines with particularly short delivery times. More information is available online at https://www.erema.com/en/fast-track-machines

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Photo:

The INTAREMA® 2325 T-VEplus® RegrindPro® is the largest machine ever built for PO regrind and achieves a throughput of over 4 tonnes per hour. The picture shows the project team in front of the new plant.

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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