

Press Release

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Robust PANTHER granulator from Pallmann for efficient PET bottle recycling

Adjustable flake size and throughput rates of up to 3.5 t/h around the clock

Zweibrücken, Germany (22 July 2015) – Pallmann Maschinenfabrik GmbH & Co. KG, which is based in Zweibrücken, has extended its range of robust PANTHER recycling granulators, by adding a granulator that has been specially designed for recycling reusable materials from PET bottles.

From lemonade to coke, beer and mineral water - more and more drinks are sold in PET bottles. Every year, about 460 billion PET bottles are currently produced worldwide. In Europe alone, an unbelievable 65 billion or more PET bottles were recycled in 2013, so that the resulting raw materials could be used to make more bottles or reprocessed.

In order to reuse waste PET bottles, they have to be recycled or shredded. With this purpose in mind, the Pallmann "PANTHER" UltraGranulator[®] is the best possible choice. Individual PET bottles are continuously fed into the cutting chamber, by means of a conveyor belt. Massive, angled rotor knives work with a very close cutting gap against opposing slanted counter knives and cut the bottles into flakes. The special rotor really does cut diagonally and this keeps energy consumption to a minimum. The lower part of the housing is fitted with a large screen, which holds the PET flakes in the cutting chamber until they are discharged through the screen holes. The mesh size can be selected, which determines the size of the flakes and throughput rate of the granulator. Throughput rates of up to 3.5 t/h are possible with a flake size of approximately 14 mm and the appropriate machine size.

After being cut, the material is pneumatically suctioned and transported into a cleaning system, in which the PET flakes are separated from the PE, which is still contained in the bottle caps. The resulting secondary raw materials can be recycled in many different ways. They are often reused to manufacture PET bottles. Alternatively, they can be used to manufacture carpets and textiles.

The Pallmann “PANTHER” UltraGranulator® is a heavy duty, compact machine, which is designed to meet the special requirements of modern recycling operations. For example, easy access to the cutting chamber makes it easier to clean and wearing parts can be replaced quickly. The rotor and stator knives can be re-sharpened many times and adjusted from the outside. The screens are even reversible, so that both sides can be used. In order to protect the machine operator, the PANTHER meets the latest safety guidelines for machinery.

The Pallmann “PANTHER” UltraGranulator® is ideal for continuous operation under tough conditions, seven days a week. The granulator can be integrated into existing recycling lines or used as a stand-alone machine without any problems. If required, Pallmann can also provide a sorting system, which can be used to separate the various secondary raw materials.

The PALLMANN Group

Founded in 1903 as an engineering works, Pallmann is a medium-sized family-owned enterprise that has a history covering seven generations of millers and millwrights. Now a global company, the PALLMANN Group has specialized in size reduction and processing technology in various sectors. With over 100.000 installations worldwide and more than 1000 machine types in what is the world's largest range of size reduction equipment for all materials ranging from soft to medium-hard, brittle to tough, as well as fibrous products. Pallmann group has one of the world's largest test facility where customer can send material to ensure the correct equipment is used for their needs.

Worldwide, the group employs around 600 experienced and highly qualified staff. Its own engineering works, subsidiaries, contract grinding and sales offices in Europe, North and South America, Asia and China ensure the best service, expert advice and support in planning, installation, commissioning of plant and equipment, and supply of spare parts.

To find out more about The PALLMANN Group please visit www.pallmann.eu.

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Robust PANTHER granulator from Pallmann for efficient PET bottle recycling.
(Photos: PALLMANN Group, PLMPR041)

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