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Vecoplan develops new line of highly flexible shredders for plastics recycling

Able to handle anything

Vecoplan will be presenting its newly developed VIZ (Vecoplan Infinity) line of shredders, a world first in plastics recycling, at K 2019 in Düsseldorf. These highly efficient shredders are particularly flexible in terms of cutting geometry. The machines can be precisely adapted to different input and output requirements by changing the rotors and blades and by selecting the right screen. They also stand out for excellent reliability, low operating costs and maximum throughput.

“Our VIZ series offer a universal solution for all kinds of input materials,” says Martina Schmidt, head of Vecoplan’s Recycling and Waste Division. Companies that recycle plastics nowadays have to deal with a wide variety of materials. “There are almost no limits when it comes to characteristics, colour and form,” she explains. The machine manufacturer from therefore puts a strong emphasis on flexibility when it comes to cutting geometry. The machines can be precisely adapted to different input and output requirements by changing the rotors and blades and by selecting the right screen. The performance can be precisely adapted to the interface.

“Our new rotor solution offers numerous advantages,” says Schmidt. “Thanks to the bolted tool holder plates with variable cutting tip sizes, rotor changes are now a thing of the past.” Users only have to exchange the plates to quickly adapt the cutting geometry to different output grain sizes. The rotor remains in the machine. Even cutting tip changes can be carried out with ease – there is no need to touch the rotor. If a tool holder is damaged, only the relevant segment has to be replaced.

The design of the machine allows users to choose between the HiTorc drive with its powerful start-up phase and high torque or the ESC, Vecoplan’s frequency-controlled, belt-driven direct drive. Both systems are patented and notable for their high energy efficiency.

“The VIZ is based on our extensive experience in the shredding of plastics, which has enabled us to meet a wide range of customer requirements,” says Schmidt. In addition, Vecoplan has optimised the ram and revised the machine design. Thanks to the improved ram height, the VIZ can now handle entire bales. The working chamber of the machine was also enlarged, permitting reliable shredding of bales with model 1300 and higher. In a comparable Vecoplan model range this is possible only with sizes 1700 and higher, although the smaller version would have the necessary throughput.

Users can also equip the machine with a second counter knife. Other advantages arise from the machine’s clear, well-thought-out design: the VIZ is easier to clean, and the newly designed ram is closer to the rotor, thus reducing material residues.

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Meta description: Shredding of plastics for recycling: newly developed VIZ line is particularly flexible when it comes to cutting geometry.

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Caption:



Vecoplan’s new VIZ can reliably shred a wide range of plastics materials.

Photo credit: Vecoplan AG

Vecoplan AG is a leading manufacturer of machines and systems for the resources and recycling industry for shredding, conveying and reprocessing wood, biomass, plastics, paper and other recyclable materials such as domestic and industrial waste. Vecoplan® develops and manufactures the systems and components, and sells them worldwide in the wood reprocessing and waste processing industries. It currently has around 380 employees at its locations in Germany, the USA, Great Britain, Spain and Poland.

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