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Vecoplan's VPC 1600 is an efficient pre-shredder for voluminous objects and bulky wooden items

It's the preparation that counts

Whether it's pallets, crates or cable drums – the new Vecoplan VPC 1600 pallet crusher has been specifically designed to pre-shred voluminous articles and bulky wooden items. When combined with the VHZ single-shaft shredder, it can increase throughput by up to 50%.

With its large and powerful single-shaft shredders, Vecoplan offers efficient solutions for reliably processing voluminous wooden items such as pallets in continuous operation. However, until now, a larger VAZ series machine had to be used for large and bulky items – and this also required a correspondingly larger installation area than the new combined solution with the VHZ 1600 and VPC 1600. “In addition to the large amount of space required, there's also another point to consider – the throughput is relatively low if we feed these pallets directly to a shredder,” says Ralf Rosenkranz, Area Sales Manager for Vecoplan's Wood | Biomass division. The reason for this is that “a lot of air is between the material“ due to the design of the pallets with their spaced boards and skids, so the shredding process takes a relatively long time.

There has been a considerable increase in the demands placed upon material and distribution centres in particular and on American DIY stores that often use disposable pallets – and this is why the machine manufacturing company from the Westerwald decided to develop an efficient pre-shredder, the Vecoplan VPC 1600 pallet crusher. “We set ourselves the goal of increasing throughput capacity by up to 50% for the shredding of bulky pallets and even large boxes – and we have achieved that goal,” says Rosenkranz. These items are crushed, not cut in the VPC. This creates enormous advantages in the shredding process, and the customer benefits from reduced quantities of wearing parts.

With its working width of 1,600 millimetres, the 800 millimetre-high VPC fits exactly onto the VHZ. A sliding frame connects the shredder and the pre-shredder. The VPC is permanently fixed during operation. For example, if the machine or plant operator has to change the counter-knives in the shredder, he can easily move the 5.5-tonne VPC. “A crane would have been too time-consuming and costly,” says Rosenkranz.

The filler port of the new pre-shredder measures 1,605 x 1,605 millimetres and the drive power is 2 x 9.2 kilowatts. Sixteen counter-crushers have been integrated into the machine and it also has two independently running rotors, each with a speed of ten revolutions per minute. “If an over-torque occurs briefly during operation, the two rotors can reverse independently of each other. This ensures an efficient and continuous process flow,” concludes Rosenkranz.

Meta-Title: Vecoplan VPC 1600 – an efficient pre-shredder for pallets

Meta-Description: Pallets, boxes and cable drums – Vecoplan has developed the new VPC 1600 for the pre-shredding of voluminous objects and bulky wooden items.

Keywords: Vecoplan; Shredder; VPC; VHZ; VAZ; Pallets; Pre-shredding; Shredding

Captions:



Photo 1: The new Vecoplan VPC 1600 pallet crusher in combination with the VHZ 1600 forms a powerful unit for the shredding of bulky wooden items.



Photo 2: The innovative rotor in the VPC 1600 pre-crushes the wooden material before it is shredded by the cutting tips of the VHZ rotor.

Photocredit: 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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