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Vecoplan: Primary crusher shreds a wide variety of waste wood for energy recovery

It gets it all down to size!

With the VVB, Vecoplan has developed a primary crusher that uses the flywheel mass of its rotor to efficiently crush all waste wood for energy recovery. It is robustly built, virtually resistant to impurities and achieves high throughput rates. The operator receives an extremely reliable machine with a high level of availability.

The robust powerhouse convinces users with the enormous flywheel mass of its solid steel rotor, with which it breaks all wood materials such as fresh bark with up to 60 percent water content, logs up to 400 millimetres in diameter, and pile caps up to 1,000 millimetres in diameter. Operators can also process roots, stumps, log yard residues, sawdust, short waste wood, pre-crushed pallets and demolition wood. The shredding tools are arranged in an M-shape on the rotor, ensuring quiet running. Despite the large flywheel mass, rotor standstill is achieved in less than five minutes. Depending on the configuration, the machine can produce fuel in particle sizes from P45 to P100, compliant with DIN EN ISO 17225.

Vecoplan designed the VVB for large throughput quantities. The experts will tailor the machine to the customer's application if necessary. For example, different tools are possible depending on the application. These tools can be used on both sides and can be partially changed, reducing costs for the operator. Vecoplan designed the primary crusher with a pivoting counter knife and screen unit secured by shear bolts so that up to two percent of impurities cannot harm it. Once the impurities have been removed, the counter knife and screen unit return to their operating position. Among other industrial segments, the new VVB is used in wood recycling, biomass combined heat and power plants, and the energy industry.

Ergonomic maintenance

The machine is equipped with a casing to minimise dust leakage during crushing. The technician can dismantle the casing in just a few simple steps before carrying out service work. A downward-opening hood allows quick access to the rotor. A maintenance platform is also integrated into the hood, making service work convenient and safe. An angle encoder

ensures optimum lifting, lowering and damping of the upper infeed roll, adapted to the input material. The drive of the upper infeed roller is internal. The drive's lubrication and temperature monitoring are done automatically.

Powerful digitalisation

The new primary crusher is equipped with the Vecoplan Smart Center (VSC) for communication. This powerful digitalisation concept offers a modern communication interface between Vecoplan and the customer's plant – the VSC.connect system. Users can access online commissioning, remote service, key performance indicators and a media database. The modern VSC.control operating panel is a communication medium for controlling the VVB. The operator can intuitively adjust the machine parameters and the storage of the settings. He receives an overview of individual actual values and current messages, including a message history. The VSC can be used on all standard mobile devices.

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Meta-Title: Vecoplan: Primary crusher shreds a wide variety of waste wood

Meta-Description: With the VVB, Vecoplan delivers a primary crusher that uses the flywheel mass of its rotor to efficiently crush all types of waste wood for energy recovery.

Keywords: Vecoplan; VVB; primary crusher; waste wood; energy recovery; crushing; shredding

Captions:



Photo 1: The new VVB shreds all types of waste wood for energy recovery.



Photo 2: Vecoplan has designed the primary wood crusher in such a way that service work can be carried out conveniently and safely.

Photo: Vecoplan AG

The high-resolution image material is available [here](#) to download.

Vecoplan AG is a producer and supplier of machines and systems for processing and handling primary and secondary raw materials for material and thermal recycling. These include wood, biomass, plastics, paper, other materials, and household and commercial waste. The company lays the foundation for functioning recycling thanks to its extensive portfolio. Vecoplan supports its customers as a partner for single-machine orders, complex plants, and mega projects. 600 employees currently work at the company's sites in Germany, the USA, the UK, Spain, Poland, Italy, and France.

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