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Vecoplan shredders: Mastering diversity with a modular system

A Modular System for Custom Solutions

What does a company do when it has to shred an unusual kind of material or needs a drive for its shredder that meets very special requirements? These are only two of the problems that Vecoplan solve for its customers. The recycling specialists have taken a fresh look at their shredding machines and standardised the interfaces. Users can now take advantage of a modular system that will handle a wide range of cases.

Manufacturers of shredding equipment frequently have to deal with very special customer requirements. For this purpose, they modify components like rotors, cutting tips, counter knives and screens to match the given task. These choices and the relevant combinations are critical to the performance and quality of the shredding process. One user might have to process especially tough materials, while another might require electric motors that comply with specific standards in the region. The design effort for such diverse solutions can be considerable, and manufacturers must keep an increasing number of different parts in stock in order to be prepared.

In order to reduce this complexity, Vecoplan has modified its product architecture and established different system platforms depending on the application and size. It has also classified separate modules according to their specific function. The interfaces are standardised and the platforms remain unchanged. Application engineers can put together suitable products according to each customer's needs, much in the way vehicle manufacturers use a configurator. They select appropriate modules for the screen, the rotor and the drive. Each module is available in different variants and can be combined as needed with other assemblies.

The grid principle

Vecoplan has organised components like cutting tools, counter knives, screens and rotors in a grid with uniform module sizes. The grid allows the shredders to be finely graduated in width from 800 to more than 3,200 millimetres. A wide range of tool sizes and types can be mapped within this grid without the need to change the designs of adjoining components. Vecoplan has also applied the basic idea of the grid to other components such as drives.

A wide range of benefits

Thanks to this grid principle, Vecoplan can design custom solutions within the spectrum – while maintaining a manageable degree of complexity at the same time. There is no need to start from scratch with the design, and no time-consuming special solution is necessary. If the user decides to purchase a new machine which is perfectly adapted to its requirements, Vecoplan can tailor a shredder faster and manufacture it immediately. Customers also benefit from even faster parts availability thanks to much more streamlined warehousing. In addition, the various modules can be retrofitted, allowing the machine’s functionality to be adapted to changing requirements.

Perfect customisation

Vecoplan showcased the first shredder based on the new modular system, its VIZ machine platform, at the K trade fair in Düsseldorf in 2019. Currently, it is extending this principle to its entire range of shredding machines and plans to present several platforms in the months ahead. The company is also planning additions at the module level to make the shredders even more versatile. The modular system will give customers shredders that are perfectly matched to their needs.

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Meta-title: Vecoplan introduces modular system for its shredders

Meta-description: Vecoplan has taken a fresh look at its shredding machines and introduced a modular system with standardised interfaces. Users will have a wide range of benefits.

Keywords: Vecoplan; recycling; modular system; modularity; shredders

LinkedIn: In order to meet very special requirements from their customers, the manufacturers of shredding equipment frequently have to modify components like rotors, cutting tools, counter knives, screens and drives to match the given task. This increases the design effort and adds to the number of different parts needed. In order to reduce this complexity, Vecoplan has modified its product architecture and established different system platforms depending on the application and size. It has also distinguished separate modules according to their specific function. The interfaces are standardised and the platforms remain unchanged. To learn more, go to

Caption:



A modular approach: The right choice of components is critical to the performance and quality of the shredding process.

Photocredit: Vecoplan AG

The high-resolution image can be downloaded [here](#).

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 450 employees at its locations in Germany, the USA, Great Britain, Spain and Poland.

Vecoplan AG

Vor der Bitz 10

56470 Bad Marienberg

Germany

Phone: +49 2661 62670

Fax: +49 2661 626770

E-mail: welcome@vecoplan.com

www.vecoplan.com

Press Contact:

Silvia Feder

Head of Marketing

Press release



Phone: +49 2661 6267-112

E-mail: silvia.feder@vecoplan.com

Please send a complimentary copy to our agency:

a1kommunikation Schweizer GmbH

Eva Neubert

Oberdorfstraße 31A

70794 Filderstadt

Germany

Phone: +49 711 9454 161-27

E-Mail: ene@a1kommunikation.de

www.a1kommunikation.de