



BIOMASS CHIPPERS

VTH 450-600-850

Powerful shredding technology for biomass

Input material



Roundwood

Slabwood

Production waste

Miscanthus

Brash Bales

Vecoplan chippers are being used in the following fields:

- Energy and Pelletplants
- Biomass powerplants
- Chipboard industry
- Sawmill industry

High Throughput Potential

Input material

- Roundwood
- Sawmill waste wood
- Miscanthus
- Slabwood
- Bark
- Brash Bales

Output material

Various chipping length possible, individually suitable for specified applications



Vecoplan Smart Center

Getting the most out of digital technology

The Vecoplan Smart Center (VSC) is Vecoplan's digitalisation solution. It enables you to maximise the efficiency of your machinery and equipment. The integrated, easy-to-use VSC.control panel serves as a communication medium and state-of-the-art control unit. It also provides a direct connection to Vecoplan. VSC.connect lets you link up your machine with other systems, opening the way to additional benefits like remote servicing and online commissioning. In addition, you have access to KPIs and a media database.

Our power offers a different class of performance

Reliable Quality woodchips Production

Vecoplan biomass chippers are the efficient and economical solution for wood chip production in the field of energetic energy recovery. With our power packs you can achieve huge material throughputs tailored to your application. Depending on the application, three different machine sizes are available (see table on page 7).



Small powerhouse with new interior and exterior

The VTH 450 is the first of the biomass chipper that has been completely redesigned. Particular attention was paid to ergonomics, efficiency and the avoidance of dust. In the course of the development work, the shredder was converted to the new Vecoplan industrial design.

Closed side walls of the machine offers low-dust emission and a safe solution overall for each and every application.



Advantages of the Vecoplan biomass chippers at a glance:

Knife Change

- Easy and fast changing of knives
- Hydraulic swing-up cover
- Good access to the front of the machine



Screens and Screen-Change

- Swing-screen
- Screen out of hardened steel



Drive

- Belt drive with power V-belt
- Single or twin drive, depending on power requirement



Infeed

- Big aggressive infeed roller at the top
- Aggressive infeed rollers at the bottom
- Swing arm lifting with integrated angular measuring sensor



Rotor with special knife fixing

- Optimal chip pocket size
- Solid cutting knives
- Cuttings Knives made out of hardened tool steel
- Regrindable



Lateral removable counter-knife bar

- Easy to maintain due to hydraulic actuation
- Counter knife made out of hardened tool steel
- Regrindable and usable on all sides



The advantages of the new development of the Vecoplan biomass chipper VTH 450 at a glance:

New drive technology on the upper feed roller

- Upper feed roller operates in a space-saving manner inside the machine
- No undesired escape of wood chips to the outside during the chipping process
- Upper infeed roller equipped with an internally located drive
- Variable intake speed controllable via frequency converter
- Sensor-controlled pneumatic lifting of the swinging arms when feeding larger materials



Integrated inspection openings

- Offers quick access for every maintenance work, e.g. replacement of cutting knives
- Due to a special safety concept, there is no intervention during operation

Proven main drive concept

- Long-lasting and low-maintenance belt drive
- Compact housing protects the drive from contamination and offers optimum protection

Ergonomical and easy access towards rotor

- Automatically upright opening of rotor hood for quick cutting knife replacement



Good Reasons – for Vecoplan compact designed biomass chippers



High throughput

- Less installation space and savings in basement and steel construction compared to competitive machines



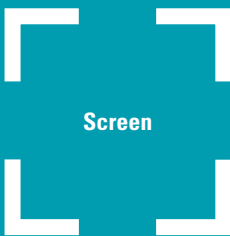
Optimized feeding

- The aggressive, extremely wear-resistant spikes of the upper feeding roller and the hardened tothing of the lower feeding rollers ensure an optimized material feeding towards the rotor



Rotor with special knife fixing

- The clamp rotor has a very large chip pocket
- The divided chipping knife, clamping plates and the changable wear bands improve the maintainability and guarantee a long life expectancy of the rotor



Screen

- The screen plates are made of wear-resistant steel HB400 and can be changed effortlessly



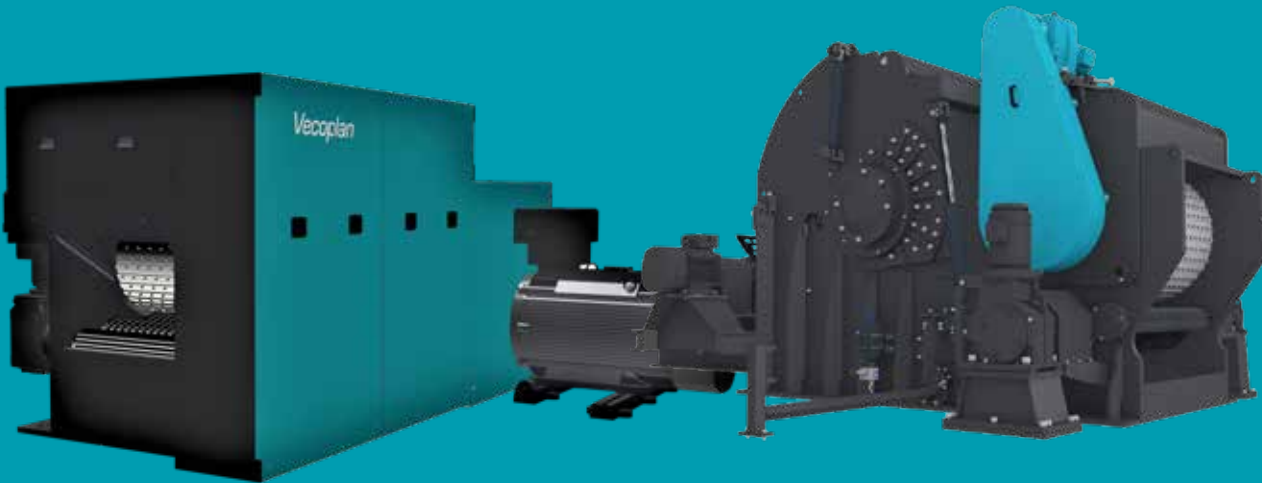
Perfect price-performance ratio

- Low initial costs combined with variable infeed heights for small and large-sized, bulky input material

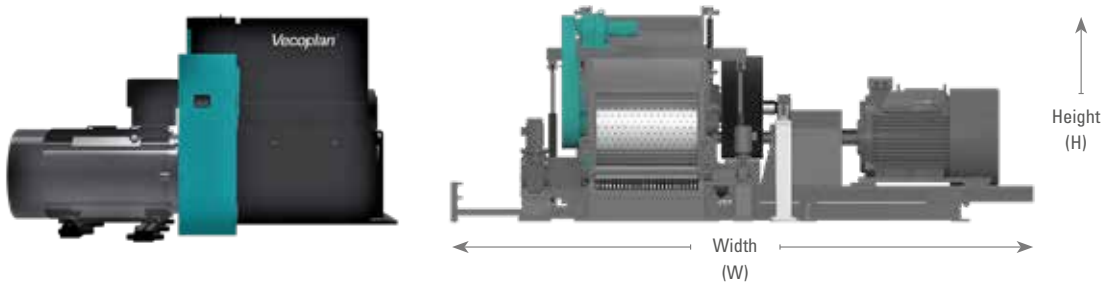


Easy maintenance

- Easy access to chipping and counter-knives and the uncomplicated screen change ensure a quick and easy maintenance



Technical Data



Details		VTH 450	VTH 600	VTH 850
Length (L)	mm	3912	3825	5885
Width (W)	mm	4132	4730	6790
Height (H)	mm	1812	2375	2670
Infeed width	mm	850 / 1050	1050	1250
Infeed height	mm	450	600	850
Infeed rollers	pcs	4	4	4
Rotor diameter	mm	1000	1300	1800
Number of cutting tools	pcs	2–4	2–4	2–4
Chipping length*	mm	10–50	10–80	10–80
Max. capacity	to/h	30*	60*	100*
Required motor power	kW	1x 160 kW 2x 160 kW 1x 200 kW 1x 250 kW 1 x 315 kW	1x 315 kW 1x355 kW 2x 200 kW 2x 250 kW 2x 315 kW 1x 630 kW	2x 315 kW 1x 630 kW 1x 710 kW 1x 800 kW 2x 400 kW 1x 1000 kW 2x 500 kW

*Depending on feed material and chip length.
Subject to technical changes / Detailed dimension sheets and load data on request / Status: 04.2023