



Shredders

EZ Single-Shaft Shredders
VZ Four-Shaft Shredders
VHZ Horizontal Shredders

VOTECS Shredders

VOTECS shredders have for years been installed in trade and industrial operations for economical processing of wood wastes and many other materials. The machines are characterized by their robust technology and consequently reliable operation. **Votecs shredders** are optimally designed for customer's specific tasks. The machines guarantee a trouble free shredding process with high energy efficiency.



Particular characteristics are:

- ✓ Sophisticated, robust technology
- ✓ Economic shredding of different materials
- ✓ High reliability and high utilization value





The Single-Shaft Shredders EZ



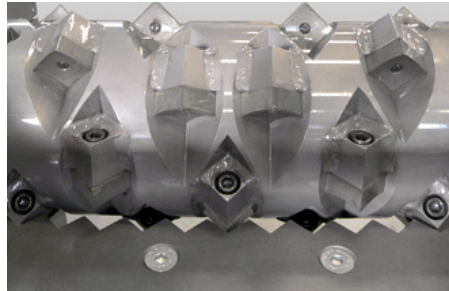
Serie EZ 5/1 - 8/2

The EZ 5/1 - 8/2 series shredders are compact and designed for high performance. The shredders can be adjusted according to customer specific requirements for throughput volume, material to be processed, etc.

For shredding of

- Wood waste
- Hardwood
- Softwood
- Chipboard
- MDF
- Paper
- Cardboard
- Remnants

Details

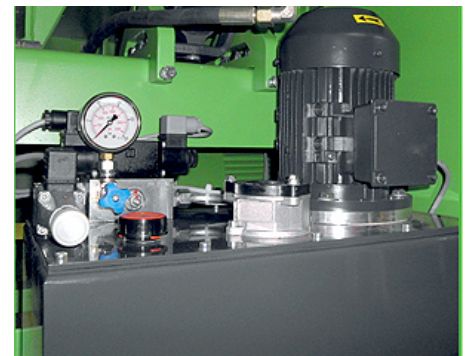


Rotor with two knife rows



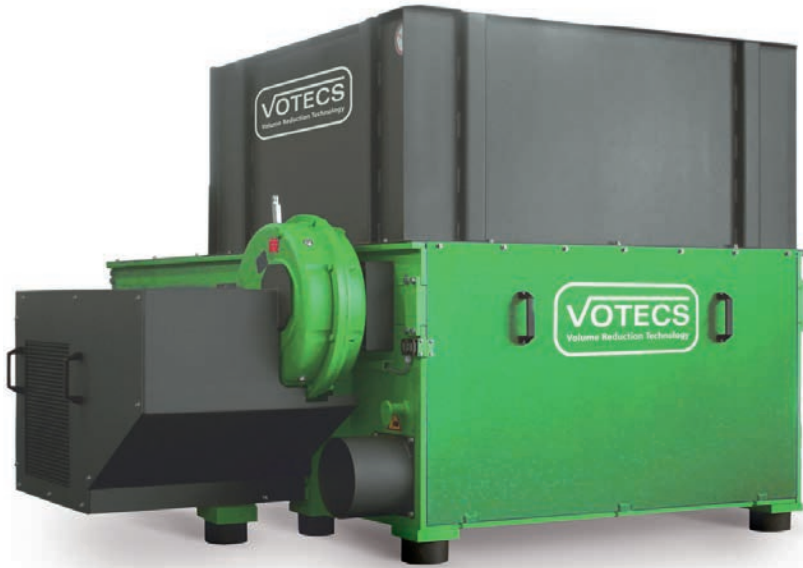
Rotor with three knife rows

The new cutting system from VOTECS! – With the brilliant genius of the rotor and slider control, a faster return (therefore a higher throughput advantage) high number of blades (concave) and the blade carrier is fed into welded pockets on the rotor. The new definition of a cutting system!



The rotors are manufactured from one piece and for this reason they are particularly torsion-resistant. Specially manufactured knife holders are welded around the circumference of the profiled rotors. The quadruple rotating rotor knives are screwed into this from behind whereby optimal damage protection of the screw heads as well as faster knife changes are made possible. Different rotor diameters (252, 368, 462 and 600 mm) are available each according to application purposes.

The hydraulic aggregate is fully integrated into the machine body. Hydraulic cylinder is gimbaled stored thus ensuring a long life span.



Serie EZ 10 /2 - 15/2

The shredder was designed for shredding of large material quantities. The single-shaft shredders are suitable for shredding all types of woods, and hard and tough plastics.

The new cutting system VOTECS The total package:

- ✓ Brilliant rotor
- ✓ Ingenious slider control
- ✓ Faster rewinding gives advantage: less effort for the sloping counter knife
- ✓ High number of blades (concave)
- ✓ The knife carrier is fed into the blades welded pockets
- ✓ The cutting blades are screwed from the rear



Via the standard installed **pusher** the material is pressed against the rotor shaft. The stripper band prevents thin materials from getting stuck between the pusher and the machine board.
Newly developed, robust flange bearings guarantee a long bearing service life.



The size of the chips is determined by the inserted **screen perforations**. The design of the screen perforation size is dependent on the subsequent use of the chips.



The insertion of concave **cutting tools** (quadruple rotation) makes high chipping power possible even with hard materials.



Practical examples



Single-shaft shredder serie EZ 13 with optional angled conveyor.

Shredder EZ 8/2 installed in a pit. Material transport by a 11 meters ascending worm screw going up to silo filling.



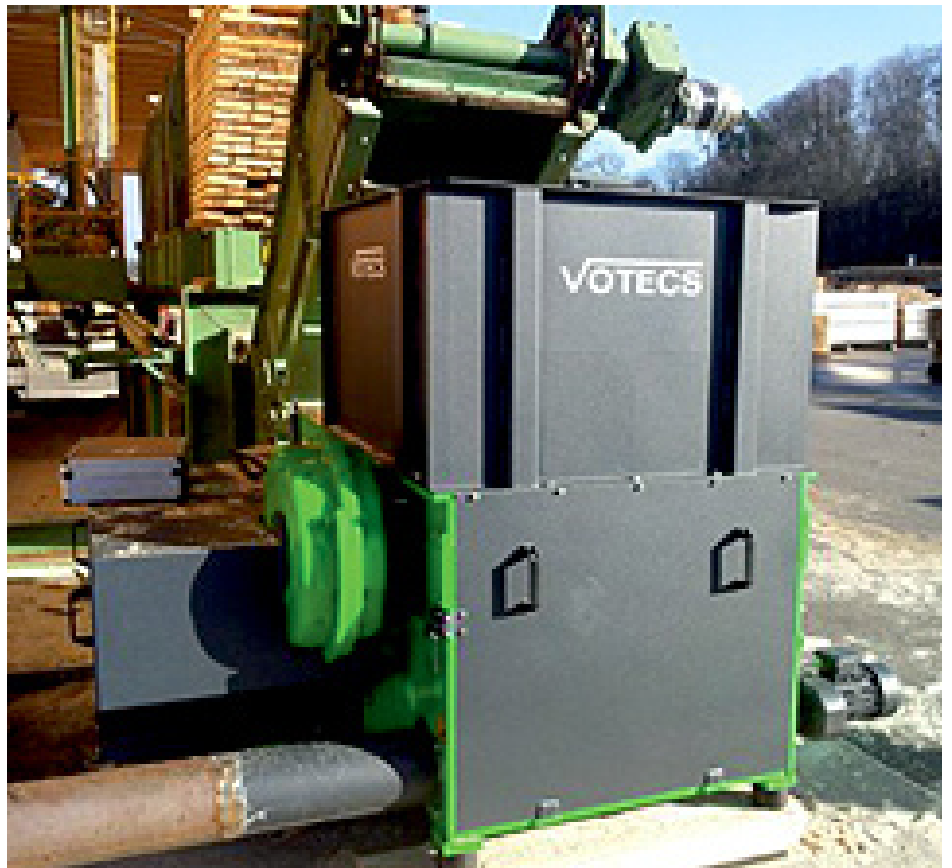
EZ 13/2 with a discharge screw conveyor on a platform to transport the materials to the conveyor belt.



Scrap wood utilizing: Briquetting saves the silo.

Single-shaft shredder EZ 10/2.

Filling with scrap wood via the conveyor belt, material discharge via a screw to the slate floor conveyor



Crusher EZ 6/1 apart from a plate cutting saw for shredding remains of chip board and multiplex panels

VOTECS shredding technology in daily use

The shredder operates very quietly and dust free: The material to be shredded is firstly deposited into a large hopper. Via a hydraulically controlled pusher it is then pressed against the cutting rotor. The shredding of the material occurs between a rotor shaft and a fixed opposing knife.

The pusher's feed rate is controlled directly and is dependent on the power consumption of the main motor. The fixed screen, located underneath the rotor, determines the desired shavings size. After shredding optional transportation of the shavings takes place via an extraction unit, a screw conveyor or a conveyor belt.







VZ Four-Shaft-Shredders



For shredding of

Bulky and very long timber waste
Timber cuts
Long boards and pallets
Types of packaging and cartons

Standard equipment

- ✓ Cutting chamber with 2 cutter shafts and 2 spacer shafts
- ✓ Twin drive with sealed oil bath gearbox
- ✓ Automatic reverse and automatic overload protection
- ✓ Breaker guide system to prevent long granulates
- ✓ Special designs on request

Options:

- ✓ Cutting chamber with four cutting shafts
- ✓ Specialised hoppers for individual applications
- ✓ Hydraulic press-down device
- ✓ Discharge worm screw or suction system
- ✓ Material discharge

Details

The illustration shows cutting chamber with 2 cutter shafts and 2 spacer shafts.





VHZ Horizontal Shredders



For shredding of

Very long and oversized wood waste
Long boards
Pallets
Packaging and paperboard

The material is fed to the rotor horizontally through a hopper, roller feed, or vibrating channel feeder. The shredders are especially used for shredding longer wood waste. The VHZ-L and VHZ-B series shredders can be used directly next to wood processing machines because of their compact design.

Details



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