



## VOTECS-Shredders

EZ-Single-Shaft Shredders

VZ-Four-Shaft Shredders

VHZ-Horizontal Shredders

# VOTECS Single-Shaft-Shredders EZ Serie

## Robust Shredders – Reliable operation

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



# VOTECS Single-Shaft-Shredders EZ Serie



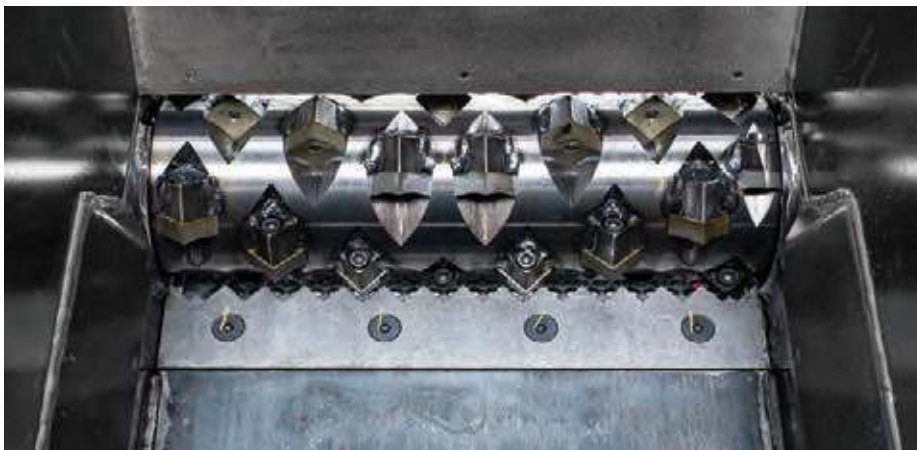
For shredding of

Wood waste  
Hardwood  
Softwood  
Chipboard  
MDF  
Paper  
Cardboard  
Remnants

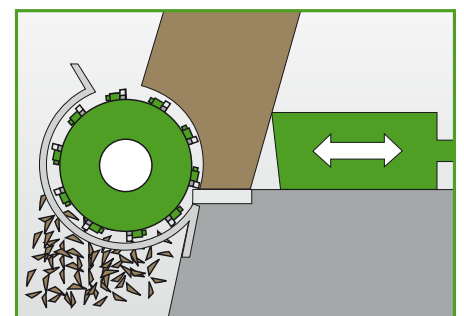
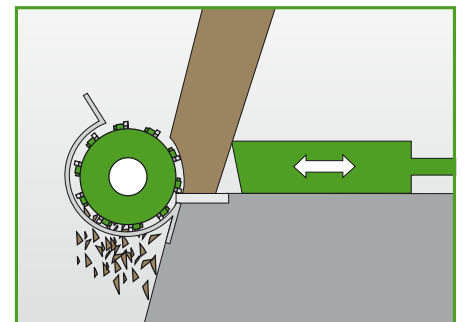
## Serie EZ 5/1 - 8/2

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.

## Fixed rotors – Customized rotor diameters



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.





### 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.

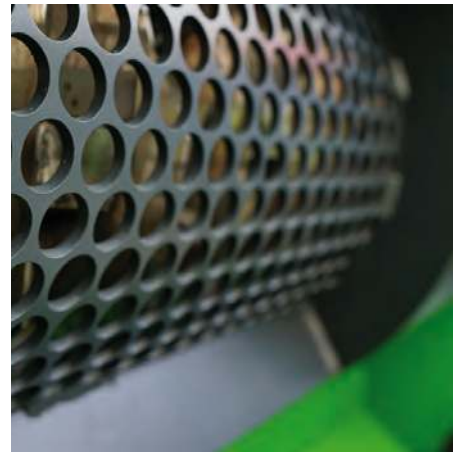
### Sophisticated technology in detail



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



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.

# VOTECS Single-Shaft-Shredders EZ Serie



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



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



EZ 13/2 with optional angled conveyor



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

# Practical examples



Scrap wood utilizing: Briquetting saves the silo.



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



Left: EZ 10/2 , Power 37 KW, Filling with scrap wood via the conveyor belt, material discharge via a screw to the slate floor conveyor.

# VOTECS shredding technology in daily use

## Shredding – simple and effective

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.

## D-Rotor – der Destroyer

The most aggressive rotor of all time -  
the throughput miracle!

With the unique cutting geometry!







# VOTECS Four-Shaft-Shredders VZ Serie



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

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



# VOTECS Horizontal-Shredders VHZ Serie



For shredding of

- Very long and oversized wood waste
- Long boards
- Pallets
- Packaging and paper-board

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.





## **VOTECS Shredding and Briquetting Technology**

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