



reddot winner 2020  
industrial design

## The power pack among the single-shaft pre shredders

Completely robust, consistently powerful. The single-shaft pre shredders VEZ 2500 and VEZ 3200 are equipped with the latest Vecoplan technology, bringing maximum efficiency and profitability in alternative fuel processing. The HiTorc-Drive saves energy, the tramp material detection minimises downtimes, the W-rotor ensures consistently high throughput, and the optimised accessibility reduces maintenance and service costs.

# 31/35 tonnes of pure shredding power

As a pre shredder, the VEZ 2500 and the VEZ 3200 are extremely tough. All areas exposed to particularly high forces and loads in the shredding process are very robustly built. The result is that the VEZ 2500 as well as the VEZ 3200 consequently push through.



When it gets tough, and large metal parts arise, the tramp material detector takes action and protects the machine. Thanks to the hydraulic base flap, the tramp material is removed in an instant – the machine only stops momentarily. The single-shaft pre shredders offer particularly profitable operation with constantly high throughput and homogeneous output quality.

## Input material

- Domestic and industrial waste
- Partially containing tramp material (stones, metal parts, etc.)
- Usually inhomogeneous in size and material

## Output material

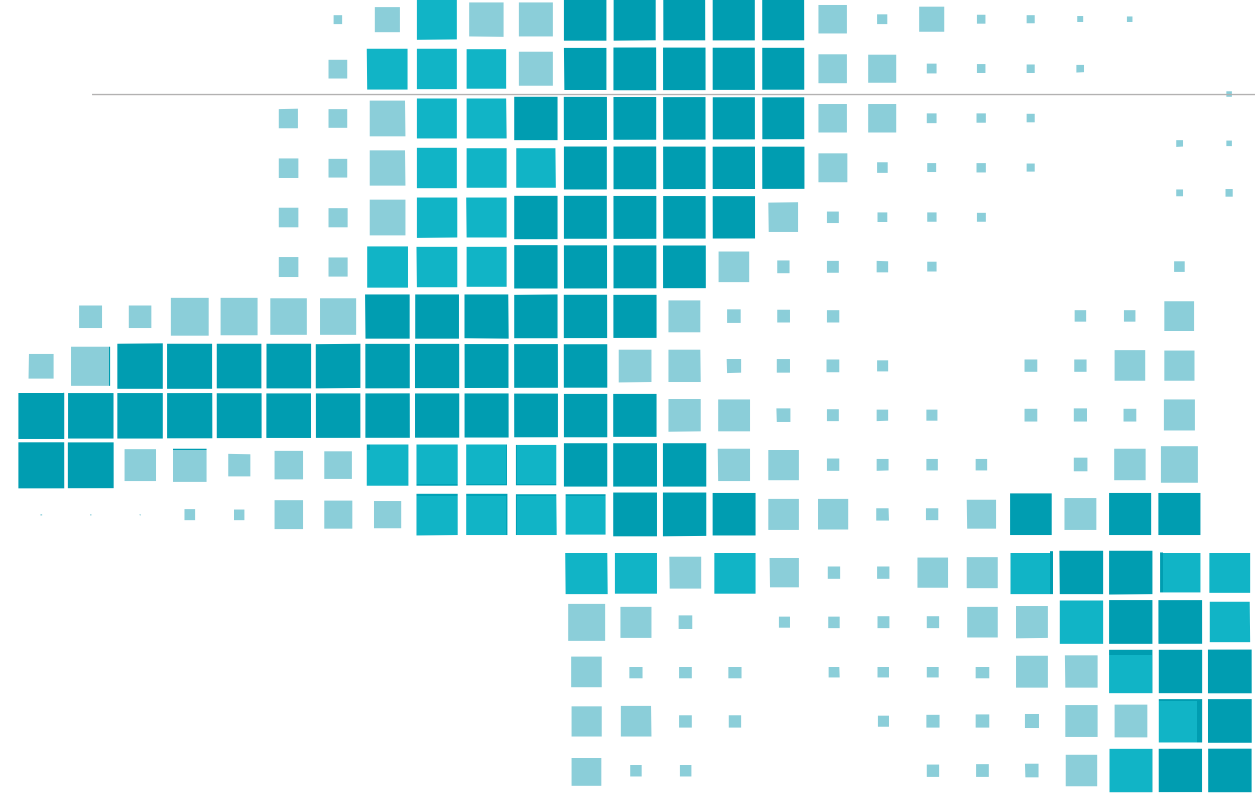
- In pre shredding:
  - Alternative fuel (RDF)
  - Particle size < 250 mm
  - Homogeneous output
  - Optimally prepared for re shredding
- In single-stage shredding:
  - Particle size up to < 80 mm
  - Homogeneous output



# The latest Vecoplan technology

As the latest development, the VEZ 2500 / VEZ 3200 use the best Vecoplan technologies. The machines are excellently equipped and benefit from many clever details for pre shredding.

The HiTorc-Drive and W-rotor are systems which you can only find at Vecoplan. Therefore we can implement unique solutions for you in reprocessing alternative fuel, providing you with a clear competitive benefit.



## HiTorc-Drive

- Frequency-controlled, powerful HiTorc-Drive
- Drive power 155 kW or 2 x 155 kW
- Optimised starting current, efficiency and torque
- Start-up with filled machine
- Considerably reduced peak current in the shredding process
- Energy saving of up to 60 % compared to conventional drives
- As gearless drive, virtually maintenance-free and noiseless



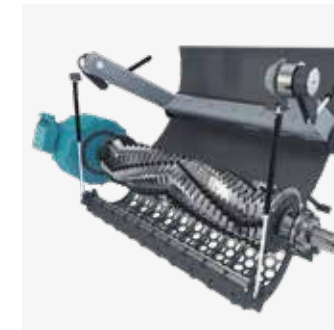
## 6-part counter-knife (VEZ 2500) 7-part counter-knife (VEZ 3200)

- Easily adjustable and exchangeable
- Optimised cutting performance thanks to small blade gap
- Consistent throughput and consistent material quality



## Patented W-Rotor

- For maximum cutting performance and high throughput – up to 50 tonnes/hour
- With 3 rows of cutters in a 'W' layout for optimal cutting with 54 cutters (VEZ 2500) or 69 cutters (VEZ 3200)
- Cutters (110 x 110 mm)
- Each cutter can be used up to 4 times
- Rapid cutter replacement/modification
- Long durability, low costs
- Homogeneous output quality
- Optional U-rotor 80 x 80 mm – with 104 cutters (up to 20 tonnes/hour) for VEZ 2500
- Optional U-rotor 80 x 80 mm – with 132 cutters (up to 20 tonnes/hour) for VEZ 3200



## Frequency-controlled orbital ram

- With infinitely adjustable ram speed
- Adapted to the input material
- For an optimised shredding process
- High throughput even with tricky, very light input materials



## Optimal handling of tramp material

- Automatic tramp material detection
- Machine damage avoided as a result
- Practical, rapid removal of tramp material via hydraulic base flap
- Tramp material can be easily removed from the counter-knife bar when the base flap is opened
- Downtimes are consistently minimised



## Large maintenance doors

- High accessibility
- All work on cutters, counter-knife and screen (replacing, repositioning or adjustment work) are time and cost-optimised
- Replacement and adjustment of cutters and counter-knife very rapidly
- Maintenance work in ergonomically optimised, upright position



# Efficient alternative fuel reprocessing across the board

You can now benefit from the advantages of a complete VEZ shredding system for alternative fuel reprocessing. The single-shaft shredder and pre shredder VEZ 2500 and VEZ 3200 are based on one machine concept. The machines provide a continuously optimised, safe process with constantly high and more homogeneous RDF-output quality with consistent profitability.



You can integrate the shredders into existing processes and shredding lines or create a completely new alternative fuel reprocessing system using both machines. We provide you with complete concepts including engineering, planning and all modules required for a profitable investment – controls, belt conveyors, drag chain conveyors, FE separators, air separators, disc screens, loading stations ...

# Enjoy the benefits!

Count on Vecoplan and the power packs VEZ 2500 and VEZ 3200 for pre shredding your alternative fuel. Keep on reaping the benefits from robust construction, the latest, partly patented technology and interplay of VEZ pre and re shredding in one production line:

- Maximum reliability and availability
- Cost reduction thanks to energy efficiency and maintenance and service optimisation
- Best value creation through consistently high, premium-quality output
- Support from the Vecoplan Live Service

Details		VEZ 2500		VEZ 3200	
Intake cross-section	mm	2492 x 2200		3180 x 2200	
Rotor dimensions	mm	ø 800 x 2492		ø 800 x 3180	
Rotor weight	t	5,7	7,1	6,2	7,6
Rotor speed	UpM	20–100			
Number of counter-knife bars	Units	1			
Counter-knife		6-part		7-part	
Weight approx.	t	29		35	
Dimensions of cutters		110 x 110	80 x 80	110 x 110	80 x 80
Rotor geometry		W-rotor	W-rotor	W-rotor	W-rotor
Number of cutter rows		3	4	3	4
Number of cutters	Units	54	104	69	132
Drive power	kW	1 x 155	1 x 155	2 x 155	2 x 155
Throughput	t/h	up to 40	up to 20	up to 50	up to 25
Screen	Bridge	< 250 mm	up to < 80 mm	< 250 mm	up to < 80 mm

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