

TECHNOLOGY FOR A SUSTAINABLE TOMORROW



Shredding



LARGE WASTE SHREDDERS

VVZ - VNZ

**Vecoplan**<sup>®</sup>

## Vecoplan's Large Waste Shredders

For 40 years, Vecoplan has set the standard for industrial shredders in the waste industry, offering our customers unparalleled experience in innovative product design, engineering and production. The efficiencies gained from our customized integrated manufacturing systems assure our customers of the highest quality product, system compatibility and on-time delivery. Vecoplan designs and manufactures machinery with ease of maintenance in mind. Wear parts that are easily accessed and replaced mean that complete machine overhauls can be accomplished in a matter of hours as opposed to days or weeks. Our quality assurance process begins with our sales activities and continues through design and production following our ISO 9001 licensed quality program.

In addition to its RDF prep systems, Vecoplan has the unique advantage of extensive shredding experience in most recycling, alternative energy and destruction applications found within our collected waste streams. Some of these applications include unsorted MSW processing, transfer stations, MRFs, multi-material and Single Stream Recycling, biomass, compost, wood waste from industry, C&D, plastics, paper, electronics and many specialized waste streams. From municipalities and cruise ships to Fortune 500 companies and entire industries - shredding is Vecoplan's specialty! From unique and proven shredding designs to award-winning developments in ferrous, non-ferrous, density and size separation and classification technologies, Vecoplan offers the most suitable systems available.



# HURRICANE Pre-Shredders

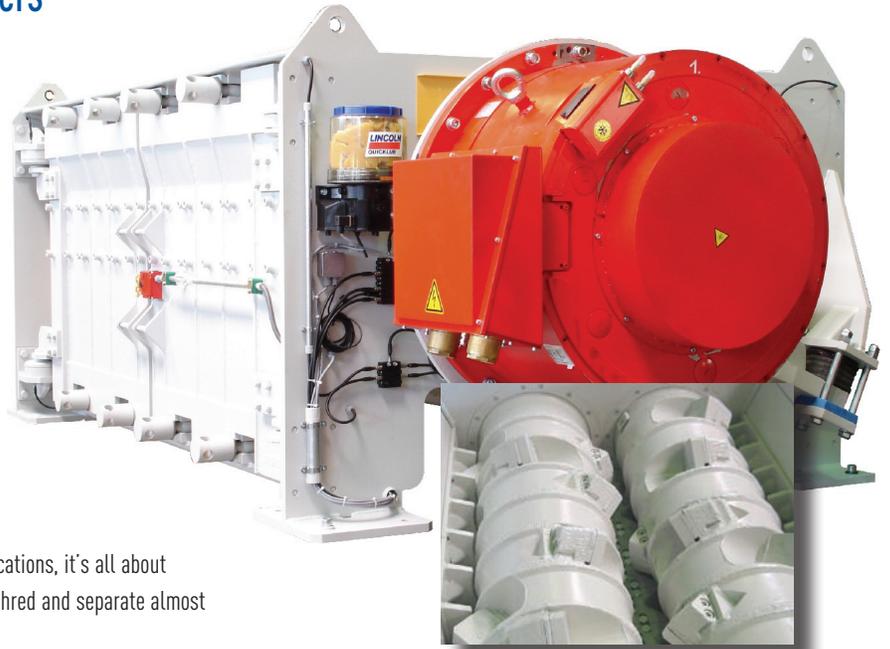
...the next generation in pre-shredding

Vecoplan offers a wide selection of primary reduction equipment for the specific use in processing high volumes of waste - from large, stationary pre-shredder installations to portable shredder models that can be moved on site and operated. These units are ideal for size reduction of construction and demolition waste and are especially useful in the preparation of wood waste for fuel and compost.

Vecoplan also offers a large selection of separation and screening equipment. Our separation systems are capable of separating ferrous and non-ferrous material, separating material by size or separation by density. We also offer a large selection of screening systems, including trommel screeners, disc screeners, star screeners, vibration and oscillating screening systems.

When it comes to large recycling, alternative fuel prep and destruction applications, it's all about throughput and reliability, and our pre-shredders are built for both. We pre-shred and separate almost anything and have the least downtime and operating costs in the industry.

Treated and untreated C&D debris such as wood, gypsum, paper, wiring, asphalt, ceramics, masonry, concrete, glass, and metal can all be sorted at the source or centrally at the MRF. Wood can be shredded for a wide array of uses; landfill cover, fuel, compost, etc. All components of MSW collected can be pre-shredded with the Hurricane™ for various alternative energy applications.



## Vecoplan VNZ Waste Re-Shredders

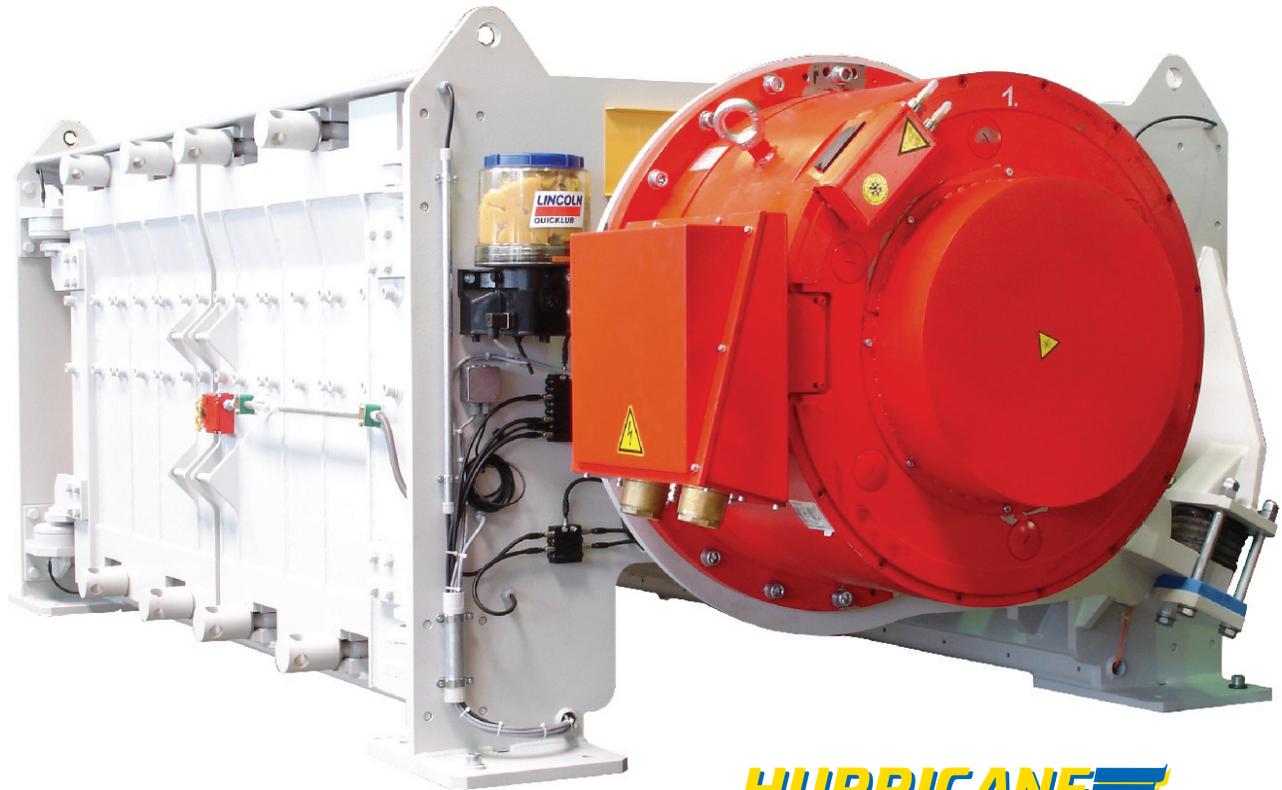
Rising energy costs, the increasing expense of diminishing landfill space, progressive combustion technologies, emphasis on alternative energy sources, advances in preparation technologies for fuel conversion - all of these factors and developments are making the production of refuse derived fuel (RDF) a sensible option, both economically and environmentally. Vecoplan is a pioneer and leader in advanced fuel preparation systems for the production of RDF. The shredding technology of the fuel prep system is the heart of any RDF refining process or waste-to-energy program. Shredder uptime and low maintenance costs are major factors in the profitability of all solid waste combustion operations.

Vecoplan VNZ models are used as re-shredders to achieve precise particle size of pre-shredded waste materials and are also used as Pre-Shredders, or primary waste reducers, in some high-capacity applications.

To compliment Vecoplan's shredding and separation equipment, innovative products for automated loading, material handling and integrated control systems are custom-made for turnkey solutions.



# VECOPLAN HURRICANE



**HURRICANE**  
...the next generation in pre-shredding

Details:	VVZ 210	VVZ 250	VVZ 310
Infeed Opening	67 x 83	67 x 98	67 x 122
Rotor Dimension	2 x 28	2 x 28	2 x 28
Number of Cutters	2 x 10 / 15 / 20	2 x 12 / 18 / 24	2 x 15 / 22
Rotor Speed RPM	0 - 60 rpm	0 - 82 rpm	0 - 82 rpm
Drive	2 x 200 - 250 HP	2 x 200 - 300 HP	2 x 250 - 400 HP
Weight	23 Tons	27.5 Tons	31 Tons
Dimensions	456 x 218 x 150	496 x 218 x 150	556 x 218 x 150

Details:	VVZ 210 T	VVZ 250 T	VVZ 310 T
Infeed Opening	67 x 83	67 x 98	67 x 122
Rotor Dimension	2 x 28	2 x 28	2 x 28
Number of Cutters	2 x 10 / 15 / 20	2 x 12 / 18 / 24	2 x 15 / 22
Rotor Speed RPM	0 - 90 rpm	0 - 90 rpm	0 - 90 rpm
Drive	2 x 300 HP	2 x 300 HP	2 x 300 HP
Weight	24 Tons	28.5 Tons	31 Tons
Dimensions	456 x 218 x 150	496 x 218 x 150	556 x 218 x 150

# HURRICANE FEATURES

## Drive Options:

The Hurricane™ Waste Shredder is available with either a standard hydraulic drive system or the revolutionary electric HiTorc™ Drive developed by Vecoplan.

HiTorc™ Drives Offer:

- Up to 100% Increase in Throughput vs. Conventional Drives
- Up to 85% Reduction in Power Consumption / Energy Usage
- Maximum Torque Across a Wide Speed Range
- Full Speed Control with Wide Speed Range
- Quickest Possible Reversing Action
- Controlled Stop Function
- No Gearbox, Fluid Coupling or Belts to Adjust or Replace



## Access Doors:

Vecoplan's unique design allows for easy access to the cutting chamber for removal of foreign material via dual access doors, or shutters, which are hydraulically operated. Electrical and mechanical interlocks insure maximum safety. Foreign material can be removed with a full hopper, eliminating the need to empty the hopper to clear the foreign material. The doors also allow direct access to wear items, reducing downtime and maintenance costs.



## Replaceable Cutters:

Unique in the industry, Vecoplan's replaceable cutter design minimizes downtime and maintenance costs. Cutters can be replaced or rotated by loosening two bolts. A complete cutting tool exchange can be performed in about two hours. Conventional shredders require extensive downtime, welding and maintenance expense just to maintain cutters.



## Sizing Grates:

Integrated sizing grates insure flexibility and control of shred size.



## Counter Knife:

Hurricane Shredders feature a counter knife positioned in-between the dual cutting rotors and bolted to the bed of the cutting chamber. The cutters on both rotors mesh precisely with the sharp serrated edges of the counter knife. This provides a smaller, much more consistent shredded particle size than traditional shredding. It also provides quick and easy replacement when they wear out, unlike shredding tables that require time consuming and costly resurfacing.

# VECOPLAN VNZ 210 - 300



Details:	VNZ 210 (L)	VNZ 300 (L)	VNZ 250 (XL)
Infeed Opening	49 x 83	49 x 117	63 x 98
Rotor Dimension	20"	20"	25"
Number of Cutters	2 x 24 / 48 / 64	2 x 34 / 68 / 92	2 x 60 / 78 / 117
Rotor Speed RPM	165 / 165	165 / 165	165 / 165
Drive	2 x 180 - 200 HP	2 x 180 - 200 HP	2 x 250 - 300 HP
Weight	15 Tons	20 Tons	17 Tons
Dimensions (LxWxH)	172" x 108" x 83"	191" x 108" x 83"	236" x 109" x 90"

Details:	VNZ 210 "V"	VNZ 300
Infeed Opening	49 x 83	49 x 117
Rotor Dimension	20"	20"
Number of Cutters	2 x 24 / 48 / 64	2 x 34 / 68 / 92
Rotor Speed RPM	165 / 165	165 / 165
Drive	2 x 125 - 180 HP	2 x 150 - 180 HP
Weight	15 Tons	20 Tons
Dimensions (LxWxH)	138" x 108" x 73"	157" x 108" x 83"

# VNZ Features

## Vecoplan's "U" Rotor:

Vecoplan's VNZ shredders utilize two patented "U" rotors. The "U" Rotor is the industry's most successful cutting rotor design. The cutting rotor has been engineered for durability and carries a Limited Lifetime Warranty. Cutting inserts are precision fit for easy maintenance. Rotors are available in several diameters dependent on throughput requirements.



## Counter Knife:

VNZ Shredders feature the exclusive Vecoplan Airspring Counter Knife. Positioned in-between the dual rotors and mounted on air springs, the serrated edges of the counter knife mesh precisely with the cutting teeth on both opposing rotors. The Vecoplan Airspring Counter Knife delivers three unique advantages over conventional shredder designs. First, it provides a smaller, much more consistent shred size. Second, Vecoplan counter knives can be quickly and easily replaced when worn, eliminating costly and time consuming resurfacing. Next, the air springs provide impact absorption to minimize damage to the machine, and proximity switches on the springs shut off the machine eliminating further damage. Foreign objects can be removed from outside of the shredder.



## Resizing Screens:

Precision sizing screens add economical production of consistent sized particles in one pass.



## VNZ Re-Shredder Models

Vecoplan VNZ Re-Shredders come in three versions:

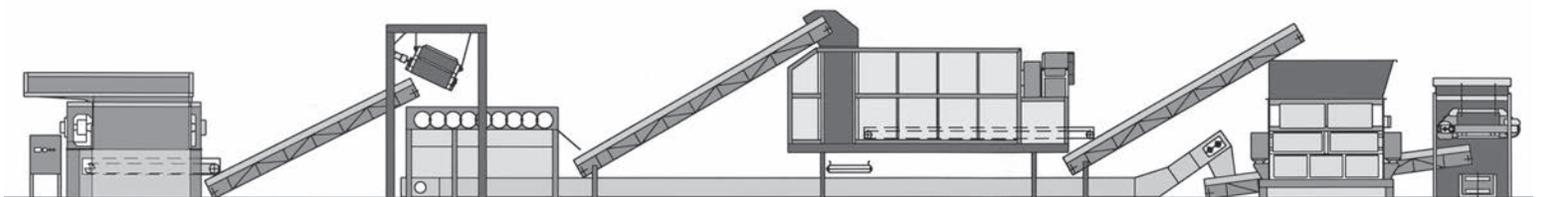
- V - For lighter-duty, high-volume processing of homogenous, pre-shredded waste materials.
- L - For mixed waste re-shredding
- XL - For the toughest and/or bulky re-shredding applications.



Vecoplan VNZ "W" Model

# *Vecoplan*<sup>®</sup>

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