

# ***Vecoplan***

***sustainable technology***

***The ORIGINAL***

***Single-Shaft Rotary Waste Shredder***



**THE ULTIMATE SHREDDING MACHINE**

# Vecoplan - Our History

Vecoplan was founded in 1969 in Bad Marienberg, Germany as a manufacturer of high quality wood chippers.

In the early 1980's, Vecoplan's focus turned to manufacturing innovative machinery for recycling of various materials, inspiring the invention of the first single-shaft rotary grinder the world ever saw. This innovation has revolutionized the size reduction industry.

In 1989, a European patent was awarded to Vecoplan for the single-shaft grinder and its unique "U-rotor". To this day, this rotor design continues to be the most advanced cutting geometry for the universal size reduction of a whole spectrum of waste materials.

In 1994, Vecoplan received its ISO 9001 certification.

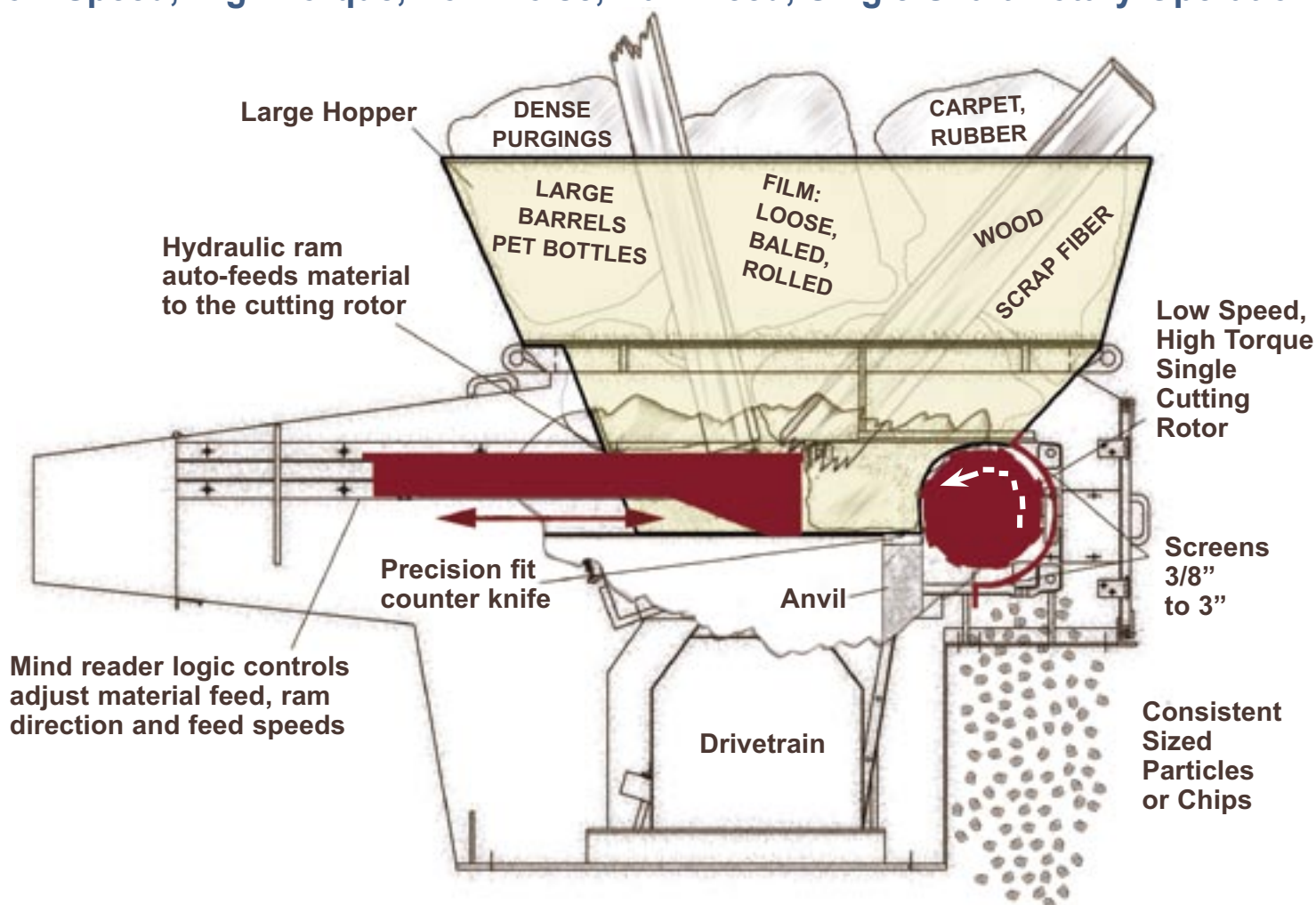
This is the highest standard set for quality systems and confirms its dedication to innovative product development, design engineering, high quality manufacturing and quality control standards. Ensuring first rate customer service has been, and remains, a top priority.

In 2000, Vecoplan, the global leader in size reduction technologies, combined forces with ReTech Industries, the American leader in single-shaft rotary grinder technologies, to form Vecoplan, LLC - the undisputed global leader in size reduction systems.

Today, Vecoplan has a substantial presence on every continent (with the exception of Antarctica) and has evolved into the undisputed leader of state-of-the-art size reduction and recycling systems with currently over 5,000 machines and systems operating around the world.

## The Vertical Feed Rotary Grinder Concept

**Low Speed, High Torque, Low Noise, Ram Feed, Single-Shaft Rotary Operation**



***Precision Size Reduction of Wood Waste, Plastic Scrap, MSW, C&D Waste, Tires, Medical Waste, Green Waste, Cables & Wire, Pallets, Plastic, Paper, Carpet***

# State of the Art Design Engineering and Production



Vecoplan takes great pride in offering our customers over 30 years experience in innovative product design, engineering and production. Our 200,000 square foot facility manufactures standard machines as

well as custom systems. The efficiencies gained from our customized integrated manufacturing systems, which assign the proper resources to accommodate demanding schedules, assure our customers of a very high quality product, system compatibility and on-time delivery. Our engineering staff is segregated in teams responsible for certain "families" of products and see projects through from inception to startup. Computerized planning and inventory systems automatically select components and sub assemblies. Aside from constantly striving to align ourselves with the highest quality vendors and components, Vecoplan is the only single-shaft rotary grinder manufacturer to have earned ISO 9001 certification, the most stringent quality standards program there is. Our quality assurance process begins with our sales activities and continues through design and production following our ISO 9001 licensed quality program.



## Our Commitment to Service

At Vecoplan, we design machines with ease of maintenance in mind, but when you need assistance, we offer the industry's finest support staff at your disposal consisting of second-to-none factory trained service technicians.

- We maintain an extensive parts inventory
- Corporate Parts Discounts and Scheduled Service Agreements Available
- Control panels featuring Remote Electronic Interfaces (modems) for immediate trouble-shooting are available
- In stock parts engineered specifically for our products
- Many machine components utilize easy-to-find standard domestic parts



# Our Test Lab

## For Application Analysis and Product Development



In our continuing efforts to remain on the cutting edge of size reduction technology, Vecoplan, LLC offers comprehensive viability testing of your materials. Our complete in-house test lab and size reduction facility, consisting of a typical layout to represent actual processing environments, allows you and Vecoplan's engineers to perform throughput, consistency and feasibility studies by conducting trial runs of your materials under production conditions. All data along with technical analysis remains confidential between Vecoplan, LLC and the customer. For additional information or to schedule a test run, call: (336) 861-6070.

Please send test samples prepaid to the following address:

**Vecoplan, LLC • 5708 Uwharrie Rd. • Archdale, NC 27263 • Attn: Sales Manager**

## Vecoplan Horizontal Models

Available with Low Speed U-Rotor OR Knife Chipper / Plastic Granulator Rotor

- Disc brake for quick knife replacement**
- Robust pillow-block rotor bearings for high operational liability**
- The knife clamping system with centrifugal wedges - a special Vecoplan design makes knife replacement easy and safe**
- Auxiliary hydraulic power unit for comfortable operation and maintenance**
- Oversized spur gear units with elastic suspension ensure highest operational liability even under toughest conditions**
- Feeding system with specially profiled and hardened feed rollers**

- High Quality Chip for the Pulp & Board Industries
- Throughputs of 1 - 80 Tons/Hr.
- ISO 9001 Certified, Highest Quality Standard
- Proven & Tested Since 1969
- Minimum "Overs"
- Optimized Chip Geometry
- Heavy, Rugged Construction
- Complete Systems - Screens, Discharge Systems, Conveyors
- Precision Feedworks

Granulator Model Shown

# Our Unique Guarantees

Vecoplan's goal is to earn and keep our customers respect...  
we back it in writing.



Vecoplan realizes that a relationship with customers is what makes a company successful. We are proud of our equipment - and we show that pride in writing with an array of warranties and guarantees. All units are automatically backed with a full 1 year warranty.

## Our Models

### Vertical Feed Shredders

Model	HP	Rotor Dia.	Hopper Opening
RG32	20	10"	32" x 42"
RG42	25 - 30	10"	42" x 48"
RG42-XL	50 - 60	15"	42" x 52"
RG52 "Shorty"	50 - 100	15"	52" x 50"
RG52	40 - 150	15"	52" x 58"
RG52-XL	100	20"	52" x 58"
RG52 Film/Fiber	125 - 150	15"	52" x 58"
RG62 "Shorty"	75 - 125	15"	63" x 58"
RG62	75 - 150	15"	63" x 80"
RG62-XL	125 - 150	20"	63" x 80"
RG62 Film/Fiber	150	15"	63" x 80"
RG70	150 or 200	20"	70" x 82"
RG78-S	200 - 300	25"	78" x 78"
RG98-S	250 - 300	25"	98" x 78"

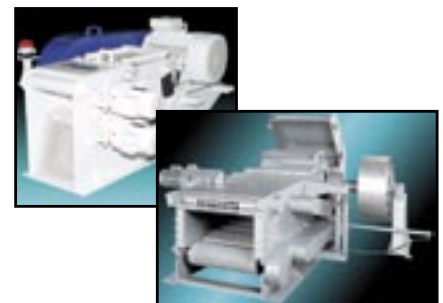


Many other models and auxiliaries are available, including:

- drum chippers
- double-shaft shredders
- conveying technologies
- screening machines
- metal detection and separation equipment
- full turn-key system design and manufacturing

### Horizontal Feed Shredders

Model	HP	Rotor Dia.	Infeed Opening
VH14	40	12"	14" x 3.5"
VH18	50-60	16"	18" x 5"
VH22	60 - 100	20	22" x 6"
VH25	60-75	16"	25" x 5"
VH34	75 - 125	16"	34" x 5"
VH50	125	20"	50" x 6"



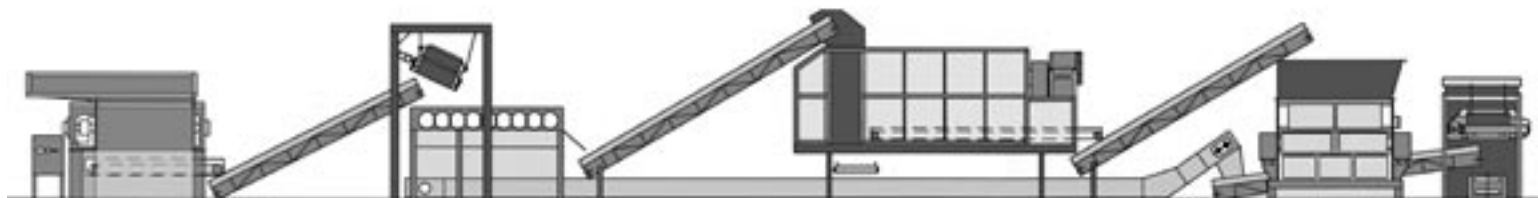
# Vecoplan - Your Total System Solution

Vecoplan is known for providing complete turn-key solutions.

We provide complete material handling systems and design engineering including conveyors, pneumatics, metal detection and separation. American electrical control panels and components are available and may be fabricated to your specifications.

Vecoplan understands that installing new equipment can disrupt production operations. New equipment can create new demands on your present electrical system. That's why we include a review and analysis of your present electrical components.

Vecoplan will help you plan for the additional equipment and prepare your present system to minimize any disruption to your operation.



## Our Complete Range of Products



- **Single and Multiple Rotor Shredders**

- **Conveying Technologies**

- **Air Classification Systems**

- **Refiners**

- **Rotary Trommels**

- **Vibratory Feeders**

- **Oscillating, Roller and Star Screeners**

- **Ferrous and Non-Ferrous Detection and Separation**

- **Bulk Material Handling, Metering and Loading**

- **Turn-key Recycling and Waste Processing Systems**



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5708 Uwharrie Road • Archdale, North Carolina, 27263 • Phone: (336) 861-6070 • Fax: (336) 861-4329 • Toll Free: 1-877-738-3241  
Web: [www.VecoplanLLC.com](http://www.VecoplanLLC.com) - E-Mail: [info@VecoplanLLC.com](mailto:info@VecoplanLLC.com)

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## What's Inside?

Pre-wired control panel with programmable logic controls optimizes machine speed and safety functions by monitoring amperage, temperatures, pressures, directions, speeds and safety switches.



Large infeed hopper to accommodate large parts and dense purgings without manually reducing scrap size.

Flared infeed opening to accommodate standard and custom extension infeed chutes.

★ Hinged cover provides protection to ram drive cylinders and allows easy access for routine cleaning.

Heavy dual cushioned hydraulic cylinders to advance process ram. Cylinders are secured with reinforced, vibration dampening clamps.

★ Quick change oversized ram guide rails are removable from the exterior of the machine.

"Process ram" provides precision feed of material to cutting rotor. Ram quickly adjusts to different load variables to maximize processing efficiency.

### Available Film / Fiber Rotor

For shredding of most flexible high tenacity materials that tend to "self-feed"



- **SURE CUT™** (patent pending) cutting system with built-in 2-stage auxiliary reduction
- Special reinforced, close tolerance screen
- Special "wedge" fixed counter knife

### Available HiTorc Drive (Patented)

Increase throughput significantly & reduce power consumption dramatically!



- 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



### ★ Vecoplan's "U" Rotor

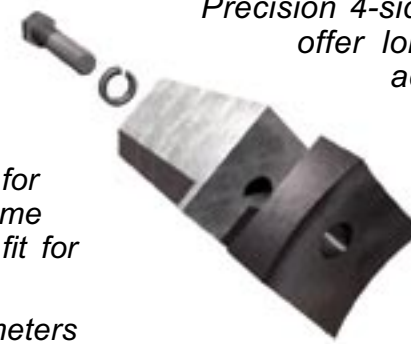
Developed and Patented by Vecoplan  
The industry's most successful cutting rotor design.

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.



A variety of cutters is available for our line of grinders.



Precision 4-sided cutting inserts are rotated to offer longer cutting life and are easily accessed for fast replacement.

The 4-sided cutters are precision fit on the rotor surface to provide a close .010 to .030 cutting tolerance.

## "U" Models and "K" Models:

Vecoplan offers two machine designs. Our "U" models are designed for use in wood grinding, light plastics and light waste applications and are Vecoplan's medium duty line of grinders. Our "K" models (as depicted in the illustration below) are made for use in demanding plastic, wood, paper and waste applications and are Vecoplan's heavy-grade, severe duty line of rotary grinders.



"K" models include features such as a heavier frame, outboard bearings and a heavier drivetrain.

Anvil has a replaceable counter knife plate with close tolerance profile. The anvil stabilizes and anchors the grinding process.



★ Hinged clean-out access doors with safety switches to access screen and cutting rotor for routine maintenance.

High quality, double row, self-aligning spherical pendulum roller bearings mounted outboard for ease of maintenance and prevention of contamination

Oversized, shaft-mounted reduction gearbox rated with very high service and safety factors.

Flanged discharge to accommodate an assortment of pneumatic and mechanical conveyance systems.

Sizing screens from 3/8" to 3" add economical production of consistent sized particles in one pass.

★ Denotes A Vecoplan Exclusive

★ Torque arm with disc springs to "shock absorb" gearbox. Equipped with a "shut down" switch to limit damage from tramp metal.

Heavy side walls, braces and reinforcements. Robotically welded for stress-free construction.

High quality, premium efficiency drive motors with thermocouple interlocks.

Banded belt drive provides positive transmission and protection of drive train.

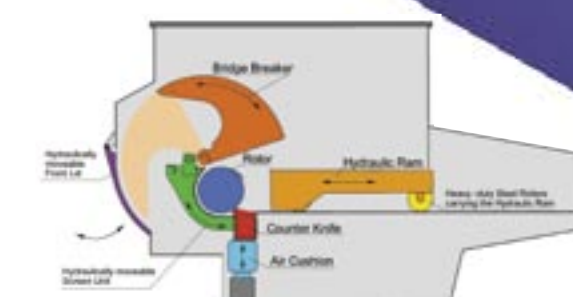
Fluid coupling absorbs micro vibrations and converts torque under load.

### Options:

- Quick Disconnect & Quick Clean Screens
- Multiple Rotor Configurations
- Multiple Cutter Insert Sizes
- Special Purpose Screens
- Hydraulic "BridgeBreaker" Vertical Feed Ram
- Airspring Counterknife for High Tramp Metal Content



Airspring Counterknife



Hydraulic "BridgeBreaker"

