



**Republic Machine INC.**

# *modular split-a-part series*

We've built our success on innovation and sound engineering. Using our 3-D CAD capability and keeping productivity, reliability, and maintainability in the forefront, we've rapidly introduced innovation after innovation to the shredder market since 1997 improving cutting, product feed, power train, and control systems. We manufacture it all, with reliability in mind, to be Republic Tough.



## ***patented innovation***

***Republic holds the patents on the most innovative elements in today's shredders.***

**Zoidal Cutting System**

**Modular Split-a-Part Shredder**

**Monorail Self-Guiding Ram**

**Grooved Screen**



## ***insta-torque detection system*** *found only in a Republic Machine*

- Guarantee's Gearbox Protection
- Controlled Over-Torque Limiting Clutch
- Near Instantaneous Shutdown Response
- V-Belt Drive (up to 100 HP)
  - Single Nut Belt Tension Adjustment
  - Pre-established Belt Alignment
- Right Angle Drive (125 HP & higher)
  - Direct Drive Belt Free System



belt-free direct drive gearbox

## Built Republic Tough

One Year Warranty on Manufacturing and Parts  
Three Year Manufacturer's Warranty on Falk Drive Train  
Limited Lifetime Warranty on Forged Rotor



self-cleaning rotor seals



dual pump hydraulic ram



PLC smart controls

### hydraulics

- Dual Pump Hydraulic Ram System

### cutting system

- Solid Alloy Steel, Single-Piece Forged Rotor
- Oversized Outboard Pillow Block Bearings
- Indexable Hawksbill or Zoidal Cutting Systems
- Bolt-in Replaceable Tool Holders
- Reversible Counterknives
- Self-Cleaning, Non-contaminating Rotor Seals
- Adjustable Anvil for Counterknife Clearance

### options

- Multiple Cutter Rows
- Water Cooled Rotor and Anvil

### screens

- Screens for sizing material 1" to 4"

### options

- Screens
  - Patented Grooved Screen
  - Triple-Cut Screen Providing Granulator Performance from a Shredder - down to 3/8"
- Stainless Steel Machine Components - Modular

### control systems

- Allen Bradley PLC Smart Controls
  - HMI Color Touch Screen
  - Logic Based on Motor Amperage & Ram Force
- Insta-torque Detection System
- Electronic Soft Start

### options

- VFD Motor Control
- Ethernet Module for Remote PLC Access
- Closed Loop Ram Velocity Speed Control

### hoppers & accessibility

- Patented Modular EZ Service Split-a-Part Design
  - Direct Access to Rotor, Counterknives, Ram Wipers, & Ram Cylinder Pin
- Customizable Straight Walled Hopper
- Removable Rear Compartment Access Covers

### options

- Corrugated Compartment Plate / Ram Top Plate
- Extended Length Compartment
- Customizable Hoppers