



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