



The Republic Machine Modular Eagle Series Single Shaft Shredder continues its legacy in the size reduction market with its robust design and proven history. These low-speed high-torque shredders are available in 42" thru 66" widths and are powered by 50 thru 250 HP electric motors. Republic Machine cutting systems are afforded the Ultimate in protection with the Over-Torque Limiting Clutch Assembly which removes all inertial energy from the gear drive and rotor in a catastrophic metal contamination incident common in recycling. The Eagle Series can be configured with both the square "Hawksbill" Cutting System for Rigid Plastics and the Trape"Zoidal" Non-Wrapping Cutting System for Film, Fiber materials. Sophisticated Allen Bradley MicroLogix PLC Control and a large HMI color touchscreen provide all the necessary settings required to run difficult industry applications.

Standard Features

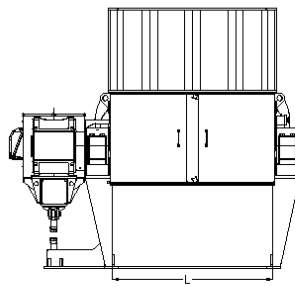
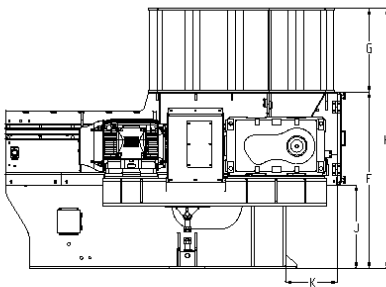
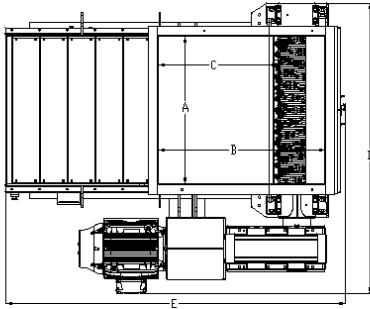
- Single Piece Solid Forged Rotor Heat Treated for Strength
 - Non-contaminating Rotor Seals
- Rigid Product (Hawksbill) Film/Fiber (Zoidal) Cutting Systems [US Patent](#)
 - Direct Hot Swap Rotor Modules between cutting systems
- Common Base for Split-a-Part installation ease
- Flippable & Sharpenable Counter Knives
- Oversized Outboard Pillow Block Bearings
- Oversized Discharge Width to capture all shredded fines
- Limiting Clutch Assembly provides the Ultimate in Drive Train and Rotor Protection
- Allen-Bradley MicroLogix 1400 PLC & Red Lion Color Touch Screen
- Adjustable Knives for tight Counter Knife Clearance
- High Speed Dual Pump Hydraulic Ram System
- Customizable Infeed Hoppers

Specifications	42	54	66	
Rotor Diameter	15"			
Rotor Motor Size	52 - 125 HP	75 - 200 HP	100 - 250 HP	
Rotor Speed	110 - 130 RPM			
Cutters (1-Row)	Hawksbill	27	35	43
	Zoidal XL	17	22	27
Ram Height	11"			
Ram Hdraulic Motor	7.5 HP			
Hopper Opening (WxL)	42" x 50"	54" x 60"	66" x 85"	
Hopper Volume	73 cu-ft	113 cu-ft	195 cu-ft	
Weight Approx. (tons)	6.0	8.5	11.0	
Throughput (estimated)	600 - 2,500	800 - 3,500	1,000 - 5,000	
Voltage	460V / 3Ph / 60Hz			



Modular Eagle

Technical Specifications



	42"	54"	66"
	15" ROTOR		
A	41.3	53.1	65.1
B	50.0	60.0	85.0
C	33.0	43.0	68.0
D	93.4	104.5	119.0
E	103.0	123.0	173.0
F	63.5	63.5	63.5
G	30.0	30.0	30.0
H	93.5	93.5	93.5
J	30.0	30.0	30.0

*Specifications, appearances, and dimensions are subject to change without notice.

Optional Features

- EZ Service Modular Split-a-Part Series Design [US Patent](#)
 - Direct Access to Rotor, Compartment, Cutting System, Drive Train
- Multiple Cutter Rows
 - Rigid (Hawksbill) & Film/Fiber (Zoidal) Cutting Systems
 - Bolt-In Replaceable Tool Holders
- Ethernet Module for Remote PLC Access
- Extended Compartment Lengths
- Corrugated Compartment Floor & Top of Ram Plate
- Special High Efficiency Screens
 - Round, Square and Rectangular Holed Close Tolerance Screens
 - Grooved Triple-Cut Screen Providing Granulator Performance from a Shredder down to 3/8"
- Water Cooled Rotor
- Modular Wear Components available in High Abrasion Applications
- Customizable Hoppers
 - Angled Hopper Walls
 - Fork Slot Hopper Openings
 - Enclosed Hoppers with Flap Assembly for Product Containment
- Jib Crane with Hand Hoist for Easy Screen Removal

Optional Auxiliary Components

- Belt Infeed & Outfeed Conveyor Systems
- Gaylord Box Dumpers
- Auger Outfeed Systems
- Integrated Downstream Granulators
- Discharge Blower Evacuation Systems
- Complete System Control Integration
- Magnetic Separators & Detector Systems
- Material Fines Separation & Classification Systems