

# Harris Shredders

	HS6090	HS80115	HS98115	HS125125	
RPM	720	600	600	450	
Output @ HP rating: *	2000 HP	25-35 TPH	50-65 TPH		
	3000 HP	30-45 TPH	60-75 TPH	70-130 TPH	
	4000 HP		70-85 TPH	80-140 TPH	
	5000 HP			90-150 TPH	
	6000 HP			100-170 TPH	150-230 TPH
	7000 HP				170-250 TPH
Principle dimensions:	width W:	14' (427cm)	16'7" (505cm)	16'7" (505cm)	17'7" (536cm)
	height H:	27'6" (838cm)	28'5" (866cm)	29'3" (892cm)	31'4" (955cm)
	length L:	28'6" (869cm)	32'8" (996cm)	34'8" (1057cm)	41'5" (1262cm)

\* Performance Rates are Subject to Material Content, Material Pre-shred Densities, Feed Rates, and Other Variables in Shredding.

(SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE)

Safety Guards or Mechanisms may be Removed for Photo Purposes Only

## Features:

Minimum maintenance design.

Oversized Reject Door that expels unshreddables faster and is protected from material hits.

Large casting design absorbs the dynamic and impact forces in the shredder chamber, reducing the transmission of these forces to the structure.

Interlocking fabrication results in stronger shredder housing.

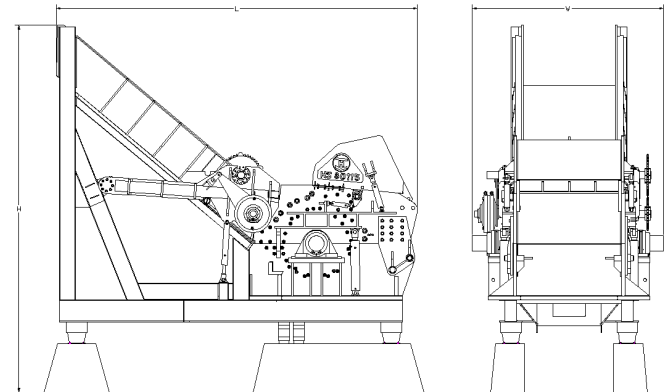
Exclusive heavy-duty Double Feed Roll with torque tube in the pivot area.

Reversible & tiltable hood is designed to increase life expectancy without extra hydraulics bolts or liners to maintain.

Thick wear liners in key areas

Anvil insert seat

Lower grate circle support & rotor bearing housing pedestal



Harris is a worldwide leader in the design, manufacture, and support of scrap processing, recycling, and waste handling equipment. Harris operates manufacturing facilities and offices in the United States and United Kingdom, and has more than 60 professional distribution partners throughout the world. Harris is owned by FKI plc, a major international engineering group employing over 17,000 people worldwide.

## Available Options:

Loading options: Infeed Conveyors with electro-mechanical or hydraulic drive, tilt table or directly on the chute.

Drive options: Direct drive through slip-ring wound rotor motor with liquid rheostat or squirrel cage motor with soft start. Belt driven by Diesel or natural gas engines.

Disc or spider rotors, with or without end disc caps.

Complete downstream system: dry separation or Harris's exclusive high pressure wash system

Complete on-line/ off-line Eddy Current Systems

Automatic stainless steel separation systems.



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Revised 2/06

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## Harris HS Shredder Series

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HS80115

HS98115

HS125125



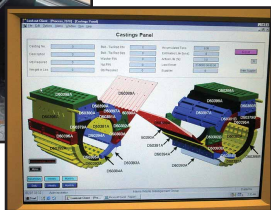
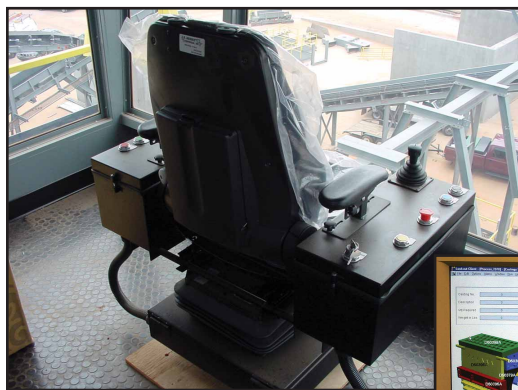
Superior design features that provide an innovative, lower maintenance, high-efficiency shredding system.



## Complete System Design

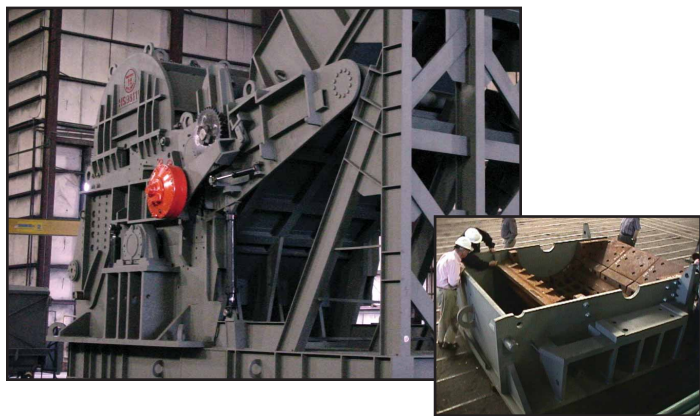
The Harris Shredder Division can design a complete shredding system to meet the requirements of our specific application. Harris can design everything from the heavy duty infeed conveyor and state-of-the-art shredder, to the separation of ferrous, different grades of non-ferrous and stainless steel materials. Harris can provide you with a system to meet your needs and budget.

Harris's exclusive Base Weldment allows to mount the shredder, feed ramp and Double Feed Roll together on springs boxes, which isolates vibrations from the surrounding environment. The integrated system reduces maintenance in this area by eliminating the fatigue in the joint between both sections while simplifying and reducing the customer's above ground foundation.



## Controls

Harris offers advanced system and production management controls for all of its shredders. The **HPM v.1** (Harris Production Manager) offers real time access to production, energy usage and operating feedback. Summary reports can be automatically sent or e-mailed at the end of the workday. Harris can retrofit existing shredder systems to the **HPM v.1** technology and network other locations and machines for total management information of your scrap processing operation. Whether it is an upgrade or total replacement, Harris can meet your expectations.



## Shredder Replacements & Modifications

Harris has the ability and has provided engineering and manufacturing for the replacement or modification of existing shredder components such as midsection rebuilds, DFR upgrades and rotor replacement or repairs. Harris can provide this service for all shredder makes and models.

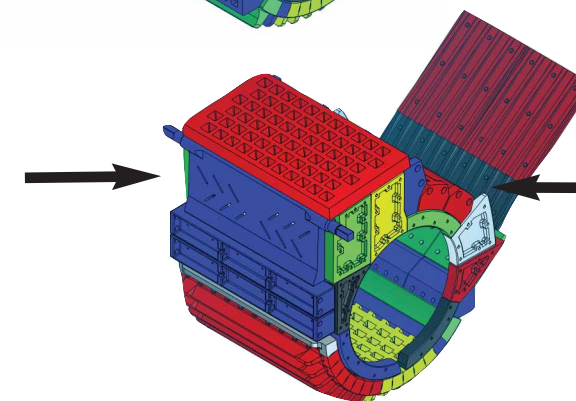
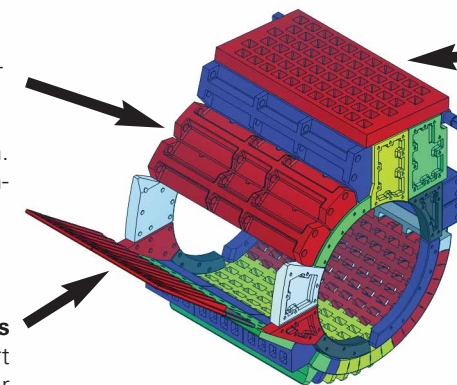
# Internal Castings

Larger castings result in longer wear life, lower cost per ton, fewer liner bolts and less downtime for maintenance.

**Large Front wall castings** have longer life than traditional fabrications with bolted liners, without requiring continuous maintenance. Easy top feed installation. Secured by tie rods that strengthen the midsection rigidity.

Self-supporting **bottom grates** eliminate the center support maintenance and have longer wear lives.

Oversized **Reject Door** allows a faster removal of unshreddables, with Harris's exclusive outward movement. This also eliminates the continuous impact of the material while in operation.



An enlarged **top grate** increases the material throughput.

The **HS** unique **sideliner** design reduces throwaway weights with its weight reducing pockets that provide extra support around the liner bolts. Harris's exclusive keyed round head bolts efficiently distribute the load around the circumference of the bolt head.

**Rear wall castings** are slightly offset from the path of the material. These replaceable back walls are tie-rod held for additional strength to the midsection. Has a much longer life than fabricated back walls, without the maintenance associated with them.

## Exclusive Heavy-Duty Double Feed Roller Design



Sturdy steel plate yoke  
 Exclusive 3 torque tube system adds rigidity to the structure  
 Quick release connection allows the removal of the complete roller without components disassembly  
 Torque tube pivot area supported by large steel pillow blocks with bronze bushings  
 Hydraulic actuated locks for maintenance position  
 Splined shaft connection to hydraulic motors



## Rotor Bearing Housing



Rotor bearing housings machined by Harris from forged steel, with internal lube connection. Fittings are only needed on the external side.



## Rotor Options

Harris Shredder offers OEM and replacement Disc or 4-arm Spider rotors. Each Harris-built rotor is cut then machined from alloy plate and utilizes replaceable end disc liners. The specified hardness of the material eliminates frequent welding. Replaceable heavy-duty helmet caps protect the spiders and the engineered, precision castings are designed for maximum life.

The Discs and/or Spiders are shrink-fitted and keyed to the shaft and secured by tie-rods. The rotor bearings are continuously lubricated by filtered, cooled, recycled oil. Each rotor is built with the same attention and commitment expected from Harris.

Harris's specified castings are made of work hardening Hadfield Austenitic Manganese Steel.

Harris also casts fully hardened Martensitic Chrome Molybdenum Alloy Steel.

Individual castings are serialized for accountability. Chemistry reports, heat treatment curves, and test bars are kept for a minimum of two years.

All castings are made with no-bake (air set) sand molding, resulting in better surface finish and dimensional accuracy.