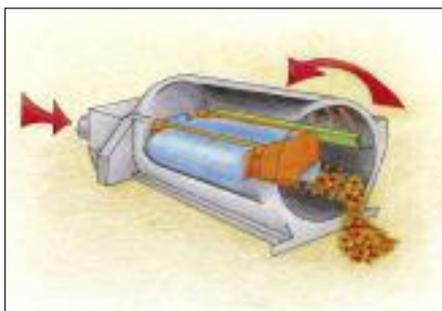


## Hycor® Rotoshear®

### Internally-fed Rotary Wedgewire Screens



The Hycor® Rotoshear® screen is a high capacity fine screen that was developed over two decades ago. It has been continually updated with new design enhancements; and today, is represented by a complete family of screens. There are ten models with many application



specific custom features. Opening sizes range from 0.010" to 0.100" (.25 to 2.5 mm) and hydraulic capacities from 450 to over 13,000 GPM (102 to 2955 m<sup>3</sup>/h). The material standard is 304 stainless, but 316 and L grades are available as well.

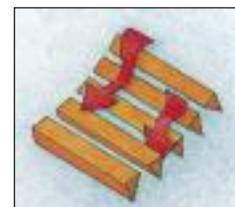
Because the Rotoshear screen is a high capacity screen with many user-friendly options, it is the choice for efficient wastewater screening and improved by-product recovery in a multitude of applications. Heavy-duty models are available for heavy solids loadings. One, in fact, handles 25 wet tons per hour in a slaughterhouse application.

In wastewater treatment plants, the Rotoshear unit is respected as a fine screen for pretreatment and primary treatment as alternative technology to replace clarifiers. Meat processors, food processors, tanneries, textile mills, petrochemical plants, and recyclers rely on it for product recovery and wastewater treatment. Pulp and paper mills use it for fiber recovery and rejects handling.

#### Highly efficient operation

The Rotoshear unit is an internally-fed rotary wedgewire cylindrical screen that operates with minimal

attendance. Influent enters through the inlet and flows into a headbox. The headbox fills and the influent cascades over the weirs and contacts two sides of the rotating cylinder screen. As the influent hits the turning screen, the solids are caught inside the cylinder and the liquid passes through the screen into the process or on for further treatment. Diverters on the cylinder move the solids along the length of the screen to discharge. The unit is equipped with spray bar(s) to clean the screen.



#### Wedgewire construction maximizes capture

The Rotoshear screen is constructed of quality 304 stainless steel wedgewire, recognized for its ability to handle stringy fibers, greasy solids and high concentrations of suspended solids without blinding. It is corrosion-resistant, durable, and will give years of trouble-free service. The entire wedgewire cylinder is surrounded by stainless ribbing for stability and long life.

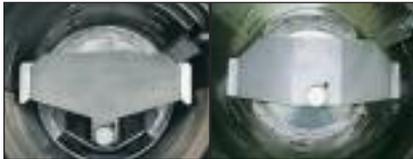
But wedgewire for high capacity capture is only part of the story. The Rotoshear unit is created with a precise relationship of headbox size to cylinder length which creates a drying zone to allow free drainage of screenings as they travel along to discharge.



## The Hycor® Rotoshear® Screen is built for high capacity

The standard municipal Rotoshear® unit headbox is an open tub style with a double weir that easily handles high flows while minimizing surging. There is also a “medlow” headbox style, with a flatter bottom, designed to handle heavy or large solids in medium to low flows in industrial applications.

### Headbox design



Tub style

Medlow

### Sprocket and chain drive designed for long years of service

The Rotoshear unit employs positive drive operation, with the chain driving the screen. The chain is durable steel with stainless available as an option. An auto-lube pump chain lubrication system with guide track applicator, is an option which provides consistent chain performance with minimal operator attention.



The entire operation is driven by an efficient gearmotor – in sizes from 1/2 to 5 HP. Explosion-proof motors are also available.

### Fast, easy installation

Standard Hycor Rotoshear units are shipped assembled – only piping, power and water require on-site connections. Rotoshear screens are

available with custom options to simplify installation. These include flanges, support legs, and drain pans to make the unit free standing, and end enclosures are available to control odors.

### Automatic spray cleaning

The Rotoshear unit has two separate spray systems: an internal spray to clean the screening surface of the cylinder, and an external spray system to keep the screen openings clear.

The spray system is designed for easy nozzle cleaning. Spray bars in many units have snap-action connectors that automatically lock in place for easy access and placement.

### Protected and operator friendly

Hycor equipment is designed to be safe and protect the operator. All rotating parts, such as trunnion wheels and chains, are completely enclosed. Screen covers protect the rotating screen and interlock switches disengage the

motor if covers are lifted while the equipment is in operation.

Strategically positioned lube ports provide easy access for greasing trunnion wheels and stabilizer pads. A cleanout port allows the headbox to be thoroughly cleaned and drained.

### Automatic options

The Rotoshear screen requires very little operator attention, and with optional control panels and solenoid valves, the unit can be equipped for automatic on and off operation. Sprays can be set to perform automatic washdown at timed intervals.



## Rotoshear® Screen Dimensions in inches

Model	Length	Width	Height	Hp
HRS2448DV	91½	50½	41½	½ (.37)
HRS3648DV	95	58½	53½	½ (.37)
HRS3672DV	119	58½	53½	½ (.37)
HRS4860	See Engineering			
HRS4872	See Engineering			
HRS6072DV	145	82	81	1 (.75)
HRS6096DV	174	82	81	1½ (1.11)
HRS60120DV	194½ (4940)	90 (2286)	80½ (2045)	2 (1.5)
HRS60160DV	235¾ (5988)	87 (2210)	80½ (2045)	2 (1.5)
HRS80160DV	247½ (6287)	107 (2718)	100½ (2553)	3 (2.2)

All dimensions are approximate and rounded up to the nearest 1/2".



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