

# AUTO-RAKE® Model 1200

## Advanced Mechanical Bar Screen

With its modern streamlined design, the Auto-Rake is strikingly different yet remarkable for its rugged simplicity.

Built for low maintenance even in hostile environments, the Auto-Rake employs the latest front cleaned bar screen technology to remove solids from liquid channels.

By coordinating the motion of a sliding rake cylinder and a pivoted boom, the Auto-Rake creates a smooth and versatile raking motion.

Unlike other bar screen designs, the Auto-Rake uses no racks, chains, or tracks that can corrode, wear or become misaligned. Instead, the entire drive mechanism is enclosed in a sealed boom housing.

### OPTIONS

The Auto-Rake can be supplied with auxiliary lift conveyors, dewatering equipment, washer and Taskmaster® screenings grinder to meet almost any requirement. Units are available with electric or hydraulic drives.

The Auto-Rake's unique sealed drive makes it a top choice where severe weather or operating conditions are anticipated. It can even be configured for fully submerged operation.

### FLEXIBILITY

The Auto-Rake can handle flow rates up to 50 mgd. It is easily installed into new or existing channels up to 52" in width. Units are supplied with single or space saving double acting telescopic rake cylinders.

Seals keep drive protected

Telescopic rake support

Scraper removes solids from head

Dead plate

Tined Rake head meshes with screen

Bar screen





As the unit descends the boom pivots out.



Solids captured on the screen are lifted by the rake.



A scraper at the top of the stroke removes solids from the rake head.

### FEATURES

- FULLY SEALED DESIGN
- TELESCOPIC BOOM & CYLINDER
- STAINLESS WETTED PARTS
- NO PIN RACKS OR GEARING
- SCREENS TO 1/2"

### ADVANTAGES

- PROTECTED FROM ELEMENTS FOR GREATER RELIABILITY
- COMPACT DESIGN ENDS ALIGNMENT PROBLEMS
- REDUCES CORROSION
- LOWER MAINTENANCE
- REDUCES LABOR & IMPROVES PLANT OPERATION

### SPECIAL SEQUENCING

If an immovable object is encountered in the screening cycle, the Auto-Rake's rake head is free to simply lift over it and continue its cycle without interruption. If the rake head does not reach its full extension in a given period of time, an alarm contact is energized to signal the operator of an obstruction.

### CONTROLS

An included program controller sequences all system functions in standard and special operating modes. An included timer function allows the operator to program for timed raking action. Contacts are provided for incorporation of a high flow sensing device.

The controller is supplied complete with a Nema 4 enclosure.

