

# MECHANICALLY RAKED BAR SCREEN

For intake water screening

MR29

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## FEATURES

- Effective solids separation and high screening discharge capacity.
- Applications for a wide range of particle sizes of refuse.
- Delivery of pre-engineered systems to be easily assembled by local labour.
- Use for intake screening for irrigation and the pre-treatment process of water treatment facilities.

# /MECHANICALLY RAKED BAR SCREEN

MR29



## DESCRIPTION

Vertical and mechanically raked bar screen constructed out of high quality stainless steel bars for intake screening and refuse removal. The solids captured on the bar screen are removed on the top of the equipment by cleaning rakes which are moved by two lateral chains. The solids are then expelled out the shoot point.

The unit housing, the translation chains and the cleaning system are designed to ensure long-term trouble-free operation. Fitted lateral sealing bands and adjustable anchoring are also provided to suit channel requirements. The amount of rakes will depend on the screening height and the operation conditions (flow, screening discharge capacity, particles sizes, density of residues to be withdrawn, etc.)



## APPLICATION

Vertical & mechanically raked bar screens are used for water screening and water treatment, removing solid refuse and improving downstream pumping and pipeline efficiency.

In the case of wastewater treatment plants, the raked bar screens are part of the pre-treatment process phase.

In the case of irrigation works, the raked bar screens provide an effective solid separation of intake water: solids and debris are captured and elevated to the discharge point while filtered water continues downstream.

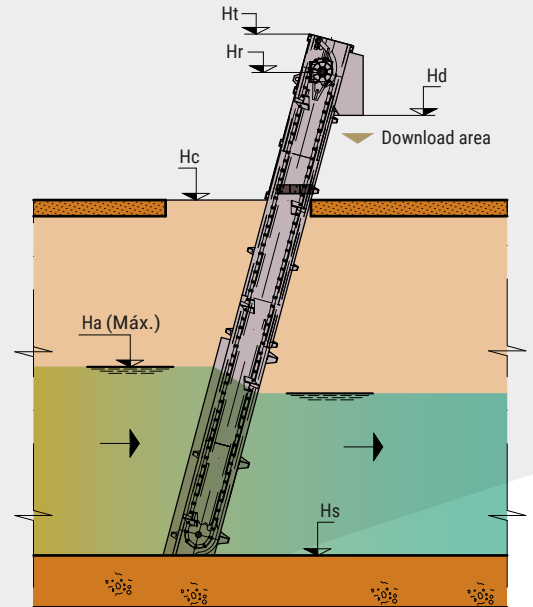




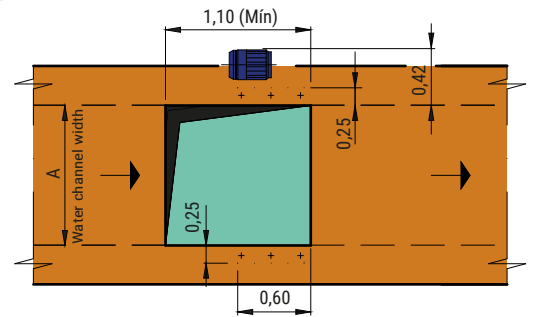
# SITE SETTING AND OPERATION

The raked bar screens are delivered as pre-engineered units to be easily assembled by local labour. They are installed with an inclination of 75° (with respect to the horizontal plane). The equipment is configured for automatic operation using level sensors that detect the pressure drop which is required to drive the removal rakes. The operation of the equipment can also be timed.

Section view



Top view



Code	Type of screen	Bar spacing	Channel width	Bars height	Removal capacity	Power
MR29F	Light screen	$\geq 10$ mm	0.5 m to 1.3 m	$\leq 2.7$ m	$\leq 200$ kg	0.75 kW
MR29N	Medium screen	$\geq 10$ mm	1.3 m to 2.0 m	$\leq 9.0$ m	$\leq 400$ kg	0.75 kW to 1.50 kW
MR29G	Heavy screen	$\geq 10$ mm	2.0 m to 3.0 m	$\leq 11.0$ m	$\leq 800$ kg	1.50 kW to 2.20 kW

## MAIN FEATURES

- High quality mechanical and machining components. ■
- High production capacity and availability under demanding operation conditions. ■
- Low load drop combined with high waste discharge heights. ■
- Low energy consumption and easy maintenance. ■
- Customer support service. ■

**/HIGH QUALITY**  
of all mechanical components

High production capacity and availability

**/UNDER DEMANDING  
OPERATION CONDITIONS**

High capacity of

**/RESIDUES  
REMOVAL**

**/LOW  
PRESSURE DROP**

when combined with  
high discharge heights

**/LOW ENERGY  
CONSUMPTION**

and easy maintenance

**/PERSONALISED  
CUSTOMER  
SUPPORT**

and after-sales service



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Management System



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