



Corrosion Resistant Intermittent Automatic Screen Unit

Pin-Rack Screen Unit

The Pin-Rack Screen Unit is designed for easy operation and maintenance as well as to reduce lead times for construction. Based on long-time practical experience in designing and manufacturing of equipment for sedimentation basin, The Pin-Rack Screen Unit from Maezawa can respond to the increasing demand of equipment renewal in many respects.

Longer Lifetime with improved corrosion resistance
SUS 304 main body extends life cycle.

Reduced Repair Costs
Unitized pin-rack enables on-site. In addition, extended life time with corrosion resistance will reduce the repair cost.

Easy Maintenance
No re-greasing is required for pin-rack and drive shaft is supported by automatic greasing unit, while the motor section can be inspected above water

Smaller Footprint
Unitized pin-rack also contributes to keep the system in a smaller footprint and lower the height. The inlet opening has also been reduced in size.

Light Weight
The weight has been reduced compared with that of the conventional type, thus transportation and installation made easy and reduced the cost.

Minimal Downtime for installation
The unit structure that integrates screen and main body made installation easy and squeezed installation time. Once the loading route is secured, the pin-rack screen unit can be carried in without disassembling into parts.

Improved Scraping Performance
The wider effective scraping width of rake improves the scraping performance

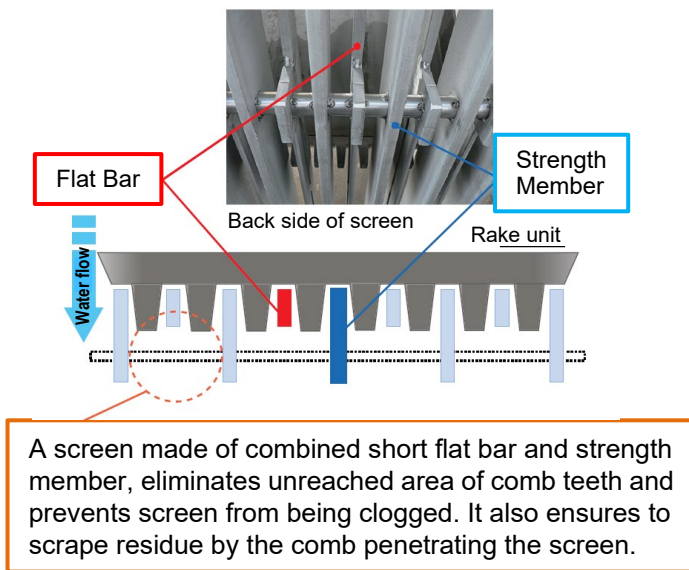
Resin Roller

Resin Sprocket

SUS304 Stainless Screen

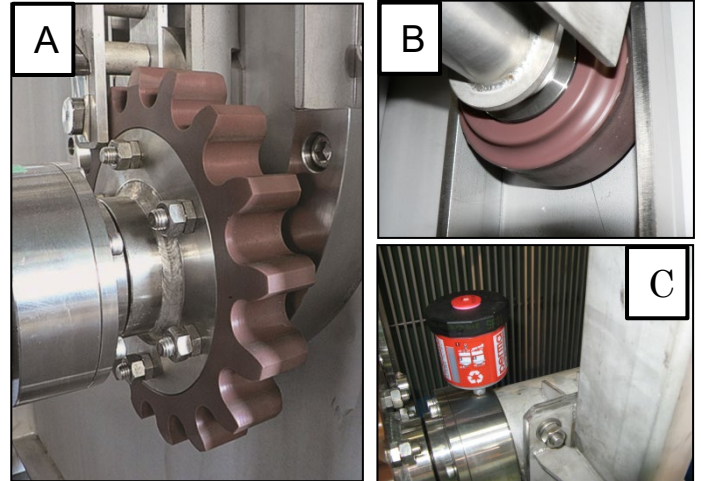


■Screen with clog prevention



■Reducing Lubrication Points

By adopting a low-friction resin sprocket (A) & a roller (B), and the Auto-Greasing Unit at the drive shaft, our Pin-Rack Screen Unit has reduced number or lubrication points and freed from intensive greasing for pin-rack.



Auto-Greasing Unit

■Application Facility Size

Item	Specification
Facility Size	Small to Mid Sized Grid Chamber Facility
Channel Width	0.8 to 4.0m
Bar Width	15 - 150mm
Standard Angle of Inclination	90 degrees or 75 degrees
Output Power	1.5kW . 2.2kW

■Comparison of Specification vs conventional type

Item	Pin-Rack Screen Unit	Conventional Pin-Rack
Drive Unit	Submersible Motor with integrated reduction gear	Same as on the left
Sprocket	Resin	Steel
Guide Roller	Resin	Steel
Pin-Rack	Unit type made of SUS	Integrated type made of steel
Drive Shaft	Integrated	Same as on the left
Rake	Light weight single rake	Single rake
Limit Sw itch	Yes	Yes
Overload protection	Overcurrent detector	Mechanical sw itch
Power Supply Method	Metal cable Underwater connector	Messenger wire Underwater terminal box
Lubrication Method	Reduction gear	Oil-sealed Replacement required at
	Driveshaft Bearing	Auto-Greasing-Unit Periodical replacement required
	Pin-rack	Not required Centralized greasing system with grease pump

■Example of Installation



With optimized unit structure, the installation work has successfully completed in 2days.

* Depending on the site condition, the unit can be divided into multiple parts.

Any information in this document is subject to change without notice.

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