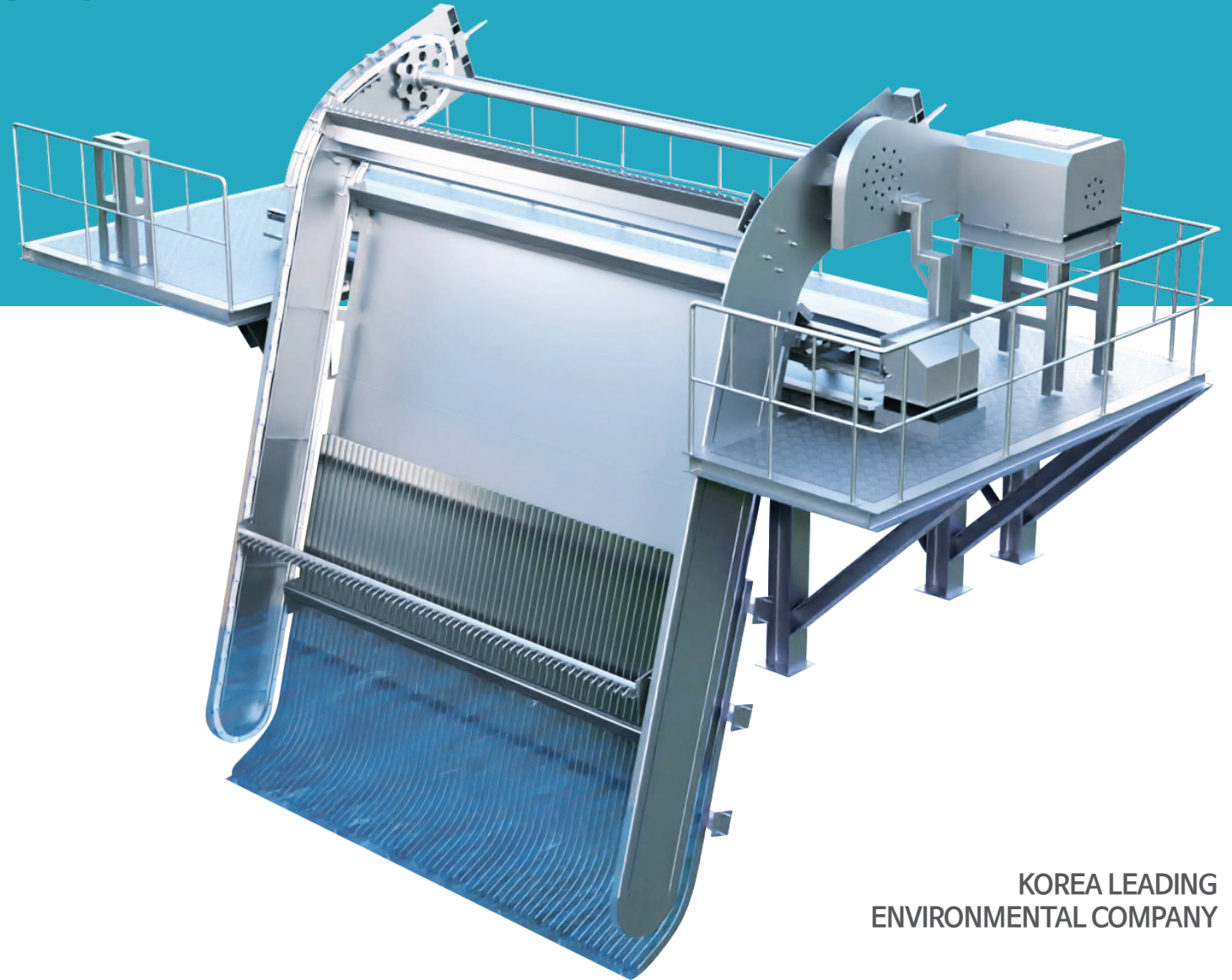


AUTOMATIC ROTARY SCREEN



ECOSSET CO.,Ltd.
Water Treatment Solution
www.ecosset.co.kr

KOREA LEADING
ENVIRONMENTAL COMPANY

ECOSET

Leading Industry with Advanced Environmental Technology

It is a great pleasure to take this opportunity to introduce our seawater intake technology. ECOSET was established in 2000, as one of the Korea's leading consulting, manufacturing, and engineering firms in the field of water and environment treatment plant. Also, it is in the process of developing and improving the seawater intake facility business by the experienced and skilled engineers who worked for a long time in related fields (seawater intake screening system). They are over 25 years old with the engineering and manufacturing expert in the field of Sea Water Intake Screen System in Thermal Power Plant, Desalination Plant, Combined Cycle Power Plant, LNG Power Plant and Nuclear Power Plant and have accumulated technical know-how throughout the long term of Technical Licensing agreement and the experiences in various projects for decades. ECOSET's equipment have been qualified with the registration of many severe verification and we maintain ISO 9001 & 14001 quality management system audited by the EUROCERT.

Especially in the case of Automatic Rotary Screen, with over 20 years of expertise, Ecoset developed and have been supplying the rotary screen system to pumping stations and drainage plants through registration of benefit sharing program by Korea Rural Community Corporation. Furthermore, we have numerous patents suitable for each storm water and flooding management process and provide special design features as options for clients to implement our product for any application. With such flexibility in design, our product has been designated Disaster and Safety Control New Excellent Technology (NET) by Ministry of the interior Safety.

ECOSET can also design the system according to any kind of the client's request and supply the best system to meet the specific needs for the customer's satisfaction. We have devoted to the technical advances in the field of seawater intake system by forming technical licensing agreement and partnerships with internationally renowned foreign firms to broaden its range of expertise. ECOSET is now grown to be one of the best Sea Water Intake Screen Systems Engineering and Manufacturers in the world.



Factory & Research Lab



Ansan Factory and Laboratory



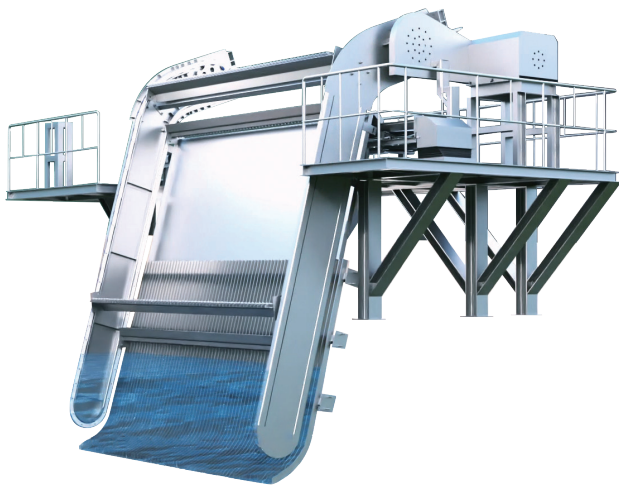
Dangjin 2nd Factory



Daegu 3rd Factory



FEATURES OF AUTOMATIC ROTARY SCREEN



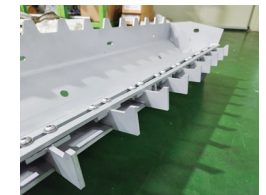
01 Prevent the Loss of debris with the lower streamlined front screen

A lower streamlined front screen is blocking the entire inlet from bottom to top and the lower part is streamlined to facilitate to smoothly collect and move debris accumulated on the bottom.



02 Improvement Technology for collecting the debris with Bucket-type Rake

Bucket-type rake has a three-dimensional shape bucket with plate on the side and back, increasing the collection space of the debris and improving the stiffness of rake and rake's tooth.



03 Facility protection and continuous operation technology applying reverse operation in abnormal operation

Reverse operation technology that protects the equipment and enables continuous operation without stopping by automatically rotating in reverse when the debris of a size that cannot be handled are introduced during normal operation.



04 Existing screen reuse technology with rake adjuster device

A technology that can reduce the cost of additional screen production by adjusting the rake tooth to suit the screen spacing installed on site.



05 Application of non-metallic roller for main chain

Using a roller made of Engineering Plastic (PA6G) instead of metal rollers extends lifetime by preventing mechanical friction with the chain guide, improves water pollution by not applying lubricant and easy for maintenance.



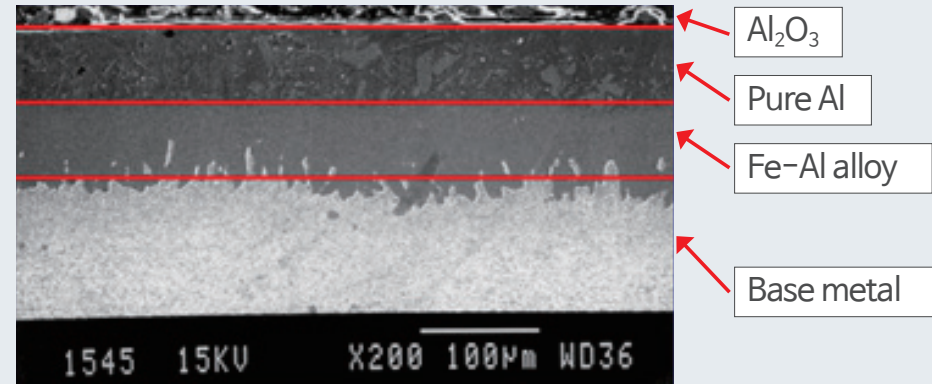
06 HOT-DIP Aluminum Coating

Enhanced Durability and Resistance:

The hot-dip aluminum coating method provides remarkable durability and semi-permanent resistance against environmental factors. This is achieved through an alloy layer enriched with a high concentration of aluminum (55-59%), ensuring superior defense against heat and corrosion, extending the material's lifespan and reliability in challenging conditions.

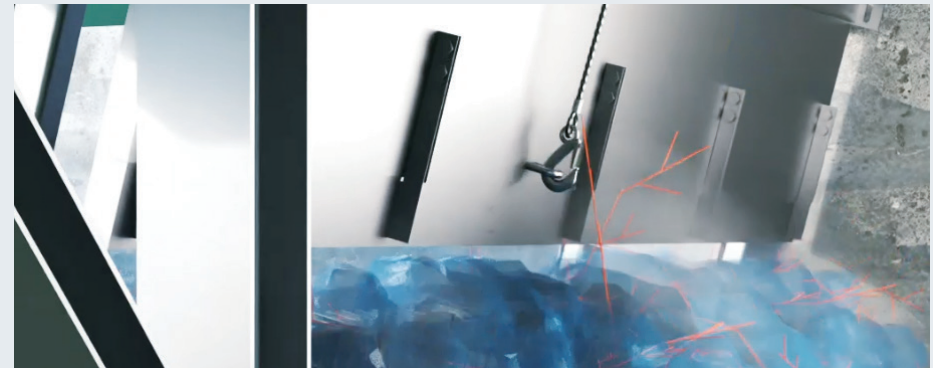
Customizable Coating Thickness:

This technique offers flexibility in adjusting the coating thickness, responding to specific functional needs and application standards. By manipulating the dipping time and temperature, the process finely tunes the protective layers' thickness, ensuring optimal protection. This customization balances robust defense without sacrificing the material's inherent characteristics, ensuring efficiency and longevity in various applications.

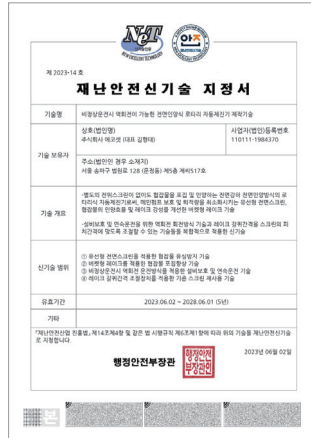
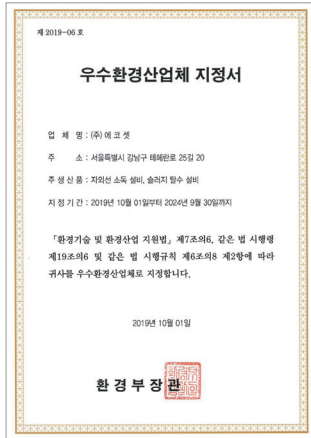


07 Emergency equipment by opening and closing lower Apron in case of flooding

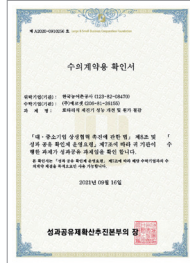
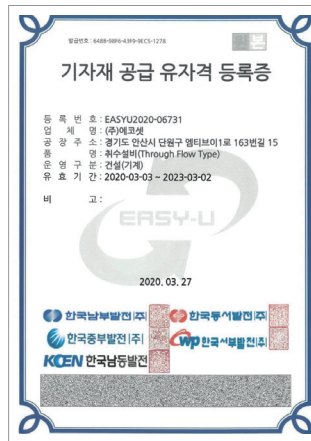
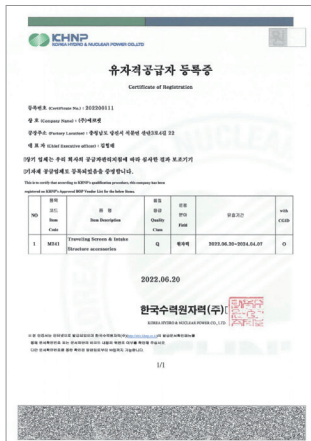
If the screen function is lost due to a large amount of impossible to process, the Apron opening can prevent flooding if there is a risk of flooding due to screen blockage



CERTIFICATION



- Certificate of Excellent Environmental Industry (Ministry of Environment)
- Certificate of Disaster Prevention and Safety New Technology (Ministry of Public Administration and Security)
- Qualified Supplier Registration Certificate Q Class
- Equipment Supply Qualified Registration Certificate (Korea Southern Power Co.)
- Water Supply and Sewerage Public Business License
- Machinery and Gas Public Business License:
- Multiple Patent Applications (Intake and Screen Facilities)



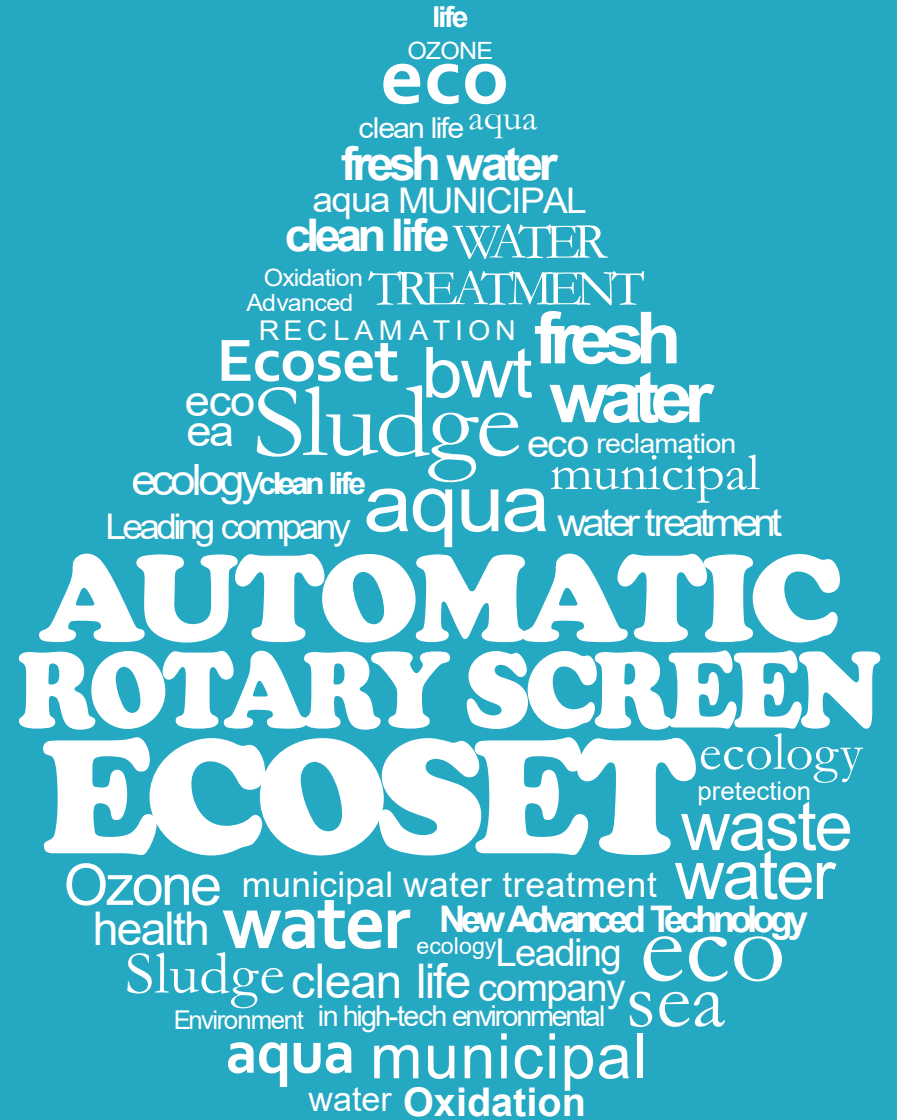
AUTOMATIC ROTARY SCREEN SPECIFICATION

Item No.	Model No.	Size(Width x Length mm)	Power(kW)	Remarks
47109980	ES-RS-120/120	1,200(W) × 1,200(H)	1.5	Outdoor
47109980	ES-RS-120/300	1,200(W) × 3,000(H)	1.5	Outdoor
47109980	ES-RS-120/600	1,200(W) × 6,000(H)	1.5	Outdoor
47109980	ES-RS-120/900	1,200(W) × 9,000(H)	1.5	Outdoor
47109980	ES-RS-150/120	1,500(W) × 1,200(H)	1.5	Outdoor
47109980	ES-RS-150/300	1,500(W) × 3,000(H)	1.5	Outdoor
47109980	ES-RS-150/600	1,500(W) × 6,000(H)	1.5	Outdoor
47109980	ES-RS-150/900	1,500(W) × 9,000(H)	1.5	Outdoor
47109980	ES-RS-200/120	2,000(W) × 1,200(H)	2.2	Outdoor
47109980	ES-RS-200/300	2,000(W) × 3,000(H)	2.2	Outdoor
47109980	ES-RS-200/600	2,000(W) × 6,000(H)	2.2	Outdoor
47109980	ES-RS-200/900	2,000(W) × 9,000(H)	2.2	Outdoor
47109980	ES-RS-250/120	2,500(W) × 1,200(H)	3.7	Outdoor
47109980	ES-RS-250/300	2,500(W) × 3,000(H)	3.7	Outdoor
47109980	ES-RS-250/600	2,500(W) × 6,000(H)	3.7	Outdoor
47109980	ES-RS-250/900	2,500(W) × 9,000(H)	3.7	Outdoor
47109980	ES-RS-300/150	3,000(W) × 1,500(H)	3.7	Outdoor
47109980	ES-RS-300/300	3,000(W) × 3,000(H)	3.7	Outdoor
47109980	ES-RS-300/600	3,000(W) × 6,000(H)	3.7	Outdoor
47109980	ES-RS-300/900	3,000(W) × 9,000(H)	3.7	Outdoor

Item No.	Model No.	Size(Width x Length mm)	Power(kW)	Remarks
47109980	ES-RS-350/150	3,500(W) × 1,500(H)	3.7	Outdoor
47109980	ES-RS-350/300	3,500(W) × 3,000(H)	3.7	Outdoor
47109980	ES-RS-350/600	3,500(W) × 6,000(H)	3.7	Outdoor
47109980	ES-RS-350/900	3,500(W) × 9,000(H)	3.7	Outdoor
47109980	ES-RS-400/150	4,000(W) × 1,500(H)	5.5	Outdoor
47109980	ES-RS-400/300	4,000(W) × 3,000(H)	5.5	Outdoor
47109980	ES-RS-400/600	4,000(W) × 6,000(H)	5.5	Outdoor
47109980	ES-RS-400/900	4,000(W) × 9,000(H)	5.5	Outdoor
47109980	ES-RS-500/150	5,000(W) × 1,500(H)	5.5	Outdoor
47109980	ES-RS-500/300	5,000(W) × 3,000(H)	5.5	Outdoor
47109980	ES-RS-500/600	5,000(W) × 6,000(H)	5.5	Outdoor
47109980	ES-RS-500/900	5,000(W) × 9,000(H)	5.5	Outdoor
47109980	ES-RS-600/150	6,000(W) × 1,500(H)	7.5	Outdoor
47109980	ES-RS-600/300	6,000(W) × 3,000(H)	7.5	Outdoor
47109980	ES-RS-600/600	6,000(W) × 6,000(H)	7.5	Outdoor
47109980	ES-RS-600/900	6,000(W) × 9,000(H)	7.5	Outdoor
47109980	ES-RS-690/150	6,900(W) × 1,500(H)	7.5	Outdoor
47109980	ES-RS-690/300	6,900(W) × 3,000(H)	7.5	Outdoor
47109980	ES-RS-690/600	6,900(W) × 6,000(H)	7.5	Outdoor
47109980	ES-RS-690/900	6,900(W) × 9,000(H)	7.5	Outdoor

※ The applied power standard is based on 4 RAKE standards, and the applied power standard may vary depending on the amount of RAKE

※ Available manufacturing upto 3,000 application models



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Factory/Reserch Lab | 15, Emtibeui 1-ro 163beon-gil, Danwon-gu, Ansan-si, Gyeonggi-do, Republic of Korea (15658)

2nd Factory | 22, Sandan 3-ro 4-gil, Seongmun-myeon, Dangjin-si, Chungcheongnam-do, Republic of Korea (31702)

3rd Factory | 1282-9, Eung-am-ri, Guji-myeon, Dalseong-gun, Daegu, Republic of Korea (Korea Water Cluster)



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Water Treatment Solution
www.ecoset.co.kr