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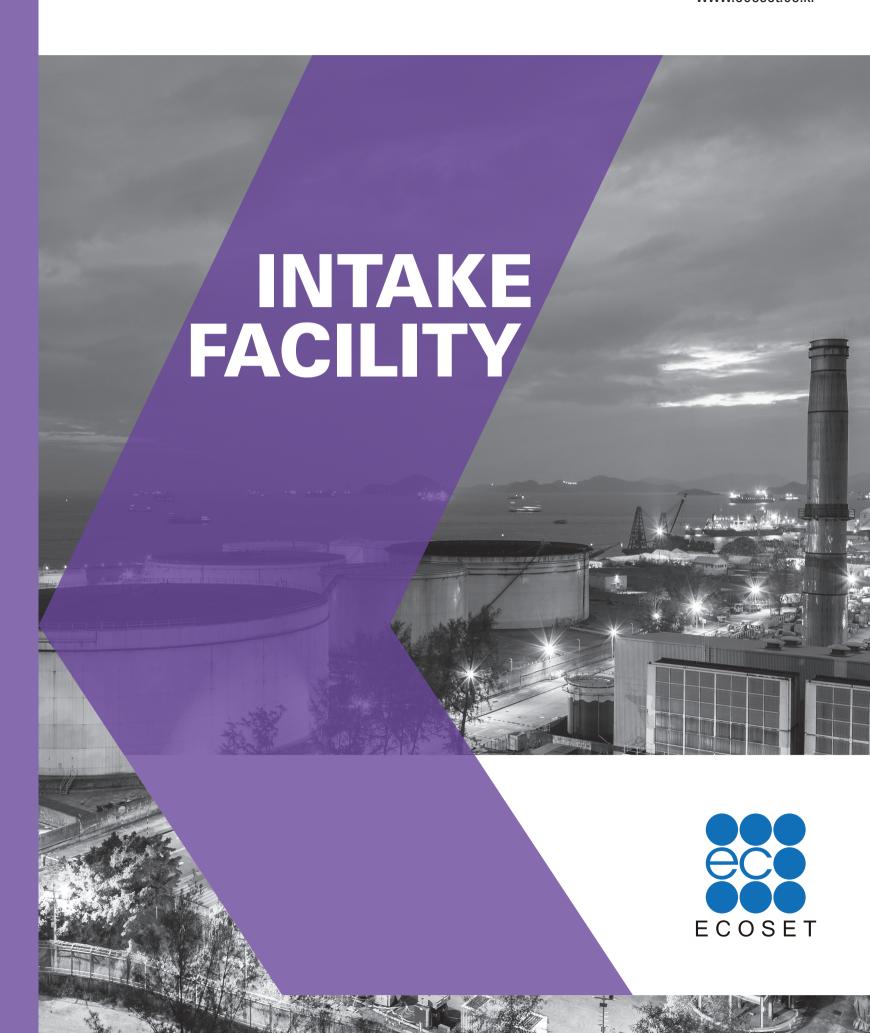
R&D Center and Factory 1

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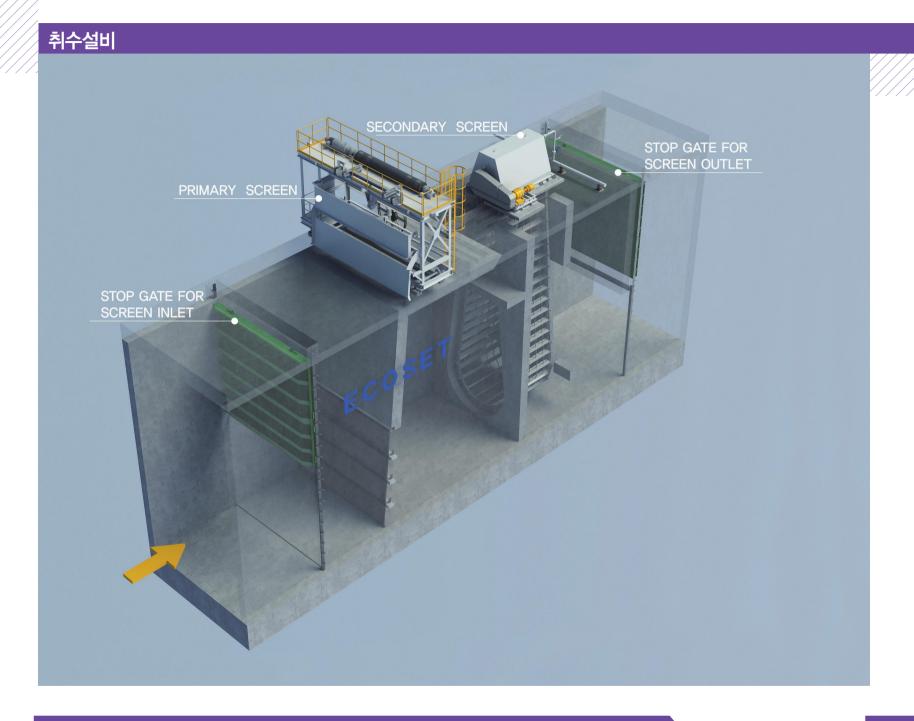
Factory 2

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LA Office



INTAKE FACILITY



Intake Facility System is the system that removes debris from the cooling water, which is supplied to industrial plants such as thermal power plant, petrochemical plant, desalination plant and industrial plant.

Intake Facility System consists of screen system, screen wash water system, screen waste water system, and auxiliary supporting system. Consisting of Primary Screen and Secondary Screen, Screen System removes large and small debris in series.

Also, the auxiliary device, Stoplog, shuts off the influent of seawater within Screen Bay and Pump Bay and it is used when screen system and pump are under maintenance.

Screen Wash Water System uses high-pressure water to remove sticky substances that are adhered to the wire mesh panels on the Secondary Screen and transports the raked debris to Trash Pit simultaneously.

Screen Waste Water System separates debris from Trash Pit and discharge them by hoist or cargo.

Auxiliary Supporting System is operated automatically with power supply and instrumentation, and it is used in order to prevent corrosion.

1. Screen System

Primary Screening Device

- Trash Rake Bar Screen
- Revolving Rake Bar Screen
- Rotary Bar Screen
- Movable Gripper Bar Screen

Secondary Screening Device

- TWS (Through Flow Type)
- TBS (Center Flow Type)
- TBS (Dual Flow Type)
- Drum Screen (Single / Double Entry)

Stop Gate & Logs / Manual & Motorized Sluice Gate Storage Stand

2. Screen Wash Water System

Piping & Support, MOV & Valves, Pump and Strainer, Trash Container

3. Screen Waste Water System

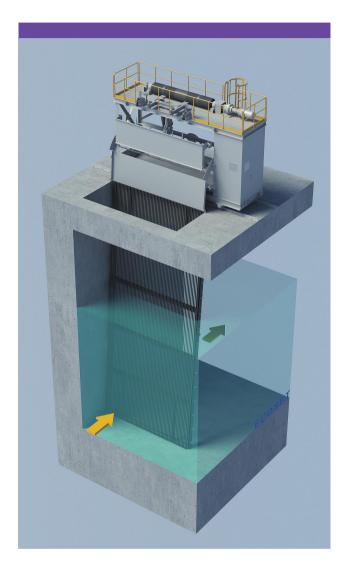
Piping & Support, MOV & Valves, Pump. Hoist / Monorail / Cargo.

4. Auxiliary Supporting System

Electrical & Instrument System / Cathodic Protection System

Primary Screening Device

TRASH RAKE BAR SCREEN





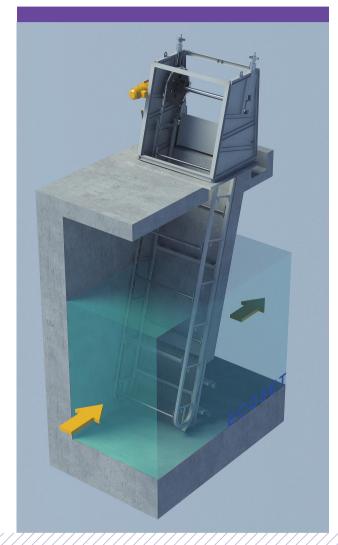


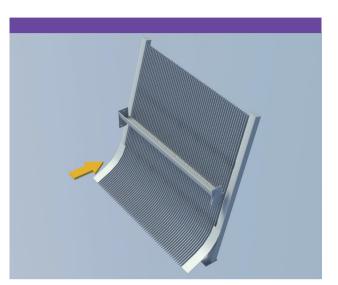
Design Data		
TYPE	Trash Rake Bar Screen	
Bar Space	30~100mm	
Number of Rakes per Screen	1ea	
Diameter of wire rope	8~14mm	
Angle of Inclination	75~80deg.	
Rotating Speed	9m/min	
Max Allowable Head	1~2m\\/C	

Component		
Frame Ass'yHoisting Ass'y	Ladder & Handrail Operating Room	
Traversing Unit Ass'yRake Ass'y	Cable Reel Ass'yControl Panel Ass'y	
Rake Way Ass'yFixed Arm Ass'y	Bar Screen Ass'y	
 Lifting Arm Ass'y 		

Primary Screening Device

REVOLVING RAKE BAR SCREEN







Design Data	
TYPE	Revolving Rake Bar Screen
Bar Space	10~50mm
Number of Rakes per Screen	8ea
Pitch of Carrying Chain	250mm
Angle of Inclination	75~80deg.
Rotating Speed	Low: 3~6m/min High: 6~12m/min
Max. Allowable Head	1~2mWC

Component		
Drive Unit Ass'yGuide Ass'yHead Shaft Ass'yChain Ass'yRake Ass'y	Distance Pipe Ass'ySupport FrameBar Screen Ass'yChute	

Primary Screening Device

ROTARY BAR SCREEN





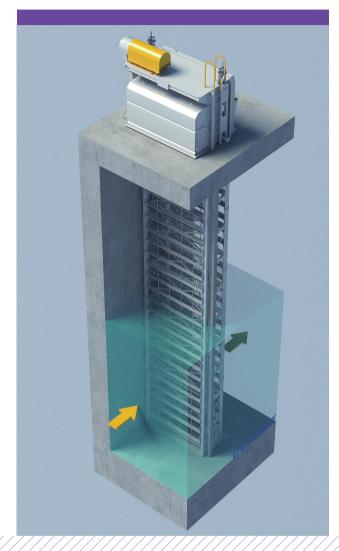


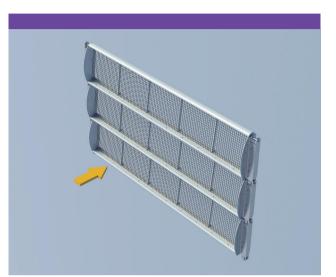
Design Data		
TYPE	Rotary Bar Screen	
Bar Space	10~50mm	
Pitch of Carrying Chain	600mm	
Angle of Inclination	80~85deg.	
Rotating Speed	Low: 3~6m/min High: 6~12m/min	
Max Allowable Head	1~2mWC	

Component		
 Drive Unit Ass'y Head Shaft Ass'y Foot Shaft Ass'y Basket Ass'y Carrier Chain Ass'y Head Section Ass'y Upper Frame Ass'y 	 Middle Frame Ass'y Boot Section Ass'y Front Splash Housing Ass'y Rear Splash Housing Ass'y Drive Chain Guard Ass'y Spray Pipe Ass'y 	
Head Shaft Ass'yFoot Shaft Ass'yBasket Ass'yCarrier Chain Ass'y	 Boot Section Ass'y Front Splash Housing Ass'y Rear Splash Housing Ass'y Drive Chain Guard Ass'y 	

Secondary Screening Device

TWS (Through Flow Type)







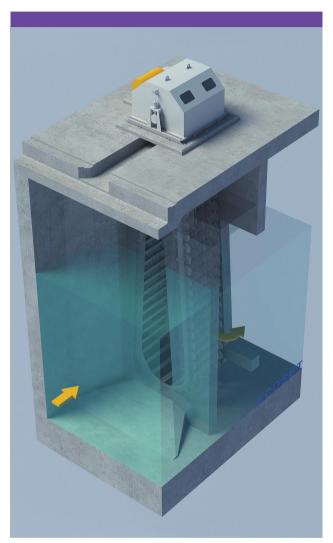
Design Data	
TYPE	Through Flow
Flow Direction	Single Entry & Single Exit
Wire Mesh Opening Size	5~15mm
Pitch of Carrying Chain	610mm
Rotating Speed	Low: 3~6m/min High: 6~12m/min
Max. Allowable Head	1~2mWC

Drive Unit Ass'y	Screen Basket Ass'y
Head Shaft Ass'y	 Carrier Chain Ass'y
Foot Shaft Ass'y	 Head Section Ass'y
Spray Pipe Ass'y	 Upper Intermediate Section
Drive Chain Guard Ass'y	Ass'y
Front Splash Housing	 Intermediate Section Ass'y
Ass'y	 Upper Boot Section Ass'y
Rear Splash Housing	 Boot Section Ass'y
Ass'v	 Embedded Guide Ass'y

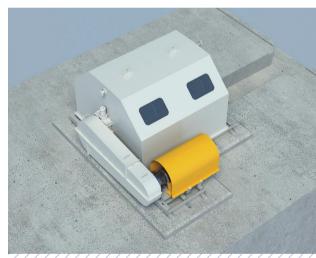
Component

Secondary Screening Device

TBS (Center Flow Type)







TYPE Center Flow Flow Direction Single Entry (Inside) & Double Exit (Outside) Wire Mesh Opening Size 2~10mm Pitch of Carrying Chain 500mm Rotating Speed Low: 3~6m/min High: 6~12m/min Max. Allowable Head 1~2mWC

Component	
 Guide Ass'y Drive Unit Ass'y Basket Ass'y Chain Ass'y Housing Spray Pipe Ass'y Waste Trough Ass'y 	 Side Seal Ass'y Pressure Strip Ass'y Joint Rubber Ass'y Waste Trough Spray Pipe Ass'y

Secondary Screening Device

TBS (Dual Flow Type)





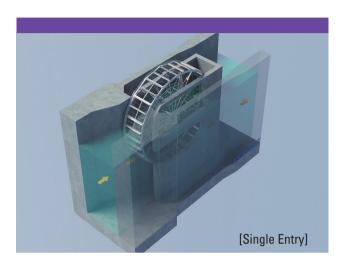


Design Data	
TYPE	Dual Flow
Flow Direction	Double Entry (Outside) & Single Exit (Inside)
Wire Mesh Opening Size	2~10mm
Pitch of Carrying Chain	460mm
Rotating Speed	Low: 3~6m/min High: 6~12m/min
Max Allowable Head	1~2mWC

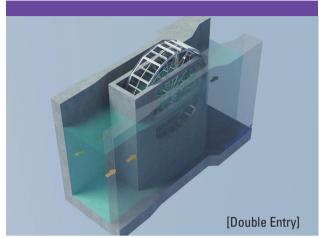
 Guide Ass'y Drive Unit Ass'y Spray & Nozzle Ass'y Housing Chain Guard Ass'y Carrier Chain Ass'y Basket Ass'y Chute

Secondary Screening Device

DRUM SCREEN (Single / Double Entry)



Design Data		
TYPE	Drum Screen	
Flow Direction	Single Entry / Double Entry	
Wire Mesh Opening Size	2~10mm	
Rotating Speed	Low: 3~6m/min High: 6~12m/min	
Max. Allowable Head	1~2mWC	



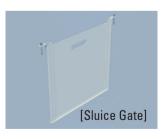
Component

- Main Frame Ass'y
- Shaft & Tube Ass'y
- Seal Ass'v
- Mesh Frame Ass'y
- D: 11:10
- Drive Unit Ass'y
- Trough Ass'y
- Seal Plate Ass'y
- Spray Pipe Ass'y
- Cover Ass'y

STOP GATE & LOGS / MANUAL & MOTORIZED SLUICE GATE







Component

- Stop Gate & Log
- Manual & Motorized Sluice Gate
- Lifting Beam
- Storage Stand

SCREEN WASH WATER SYSTEM





Component

- Spray Water Pump Ass'y
- Manual & Auto Strainer Ass'y
- Spray Pipe & Support
- MOV & Valves
- Trash Container
- Manual & Motorized Sluice Gate

SCREEN WASTE WATER SYSTEM



Component

- Dewatering Pump Ass'y
- Dewatering Pipe & Support
- MOV & Valves
- Hoist / Cargo / Monorail