



**WATER &
WASTEWATER
TREATMENT**

BUILDS QUALITY & CONFIDENCE



ABOUT US

Astim is established and organized to design and manufacture various mechanical equipment for municipal and industrial water & wastewater treatment plants as well as specific process equipment, vessels and steel structures.

Established in 1980, Astim operates in the heart of industrial region of Turkey, Kocaeli – Dilovası Industrial Organized Region with 6.000 m² indoor and 8.000 m² outdoor manufacturing facility located close to Istanbul, surrounded with highways and harbors. Our facility is equipped with suitable machinery and tools for fabricating steel works up to 5.000 tons/year. Together with 70 colleagues consisting of experienced engineers, qualified technicians and certified welders, we develop system solutions, design & manufacture products and manage projects.

With vast experience in designing and manufacturing according to the international norms and standards such as; DIN-EN, AD 2000 Merkblatt HP-0, ASME, API650, EN ISO 3834-2, we have completed many international projects under control of well-known inspection companies such as TÜV, GL, BV and SGS.

WHAT WE DO;

Astim provides innovative solutions, competitive equipment and satisfaction oriented customer service for;

- ◆ Water & Wastewater Treatment
- ◆ Industrial Water Treatment
- ◆ Sludge Treatment
- ◆ Flue Gas & Odor Treatment
- ◆ Water Intake for Power Plants
- ◆ Process Equipment, Vessels and Steel Structures



EN ISO 9001-2008



EN ISO 3834-2



AD 2000
Merkblatt HP 0

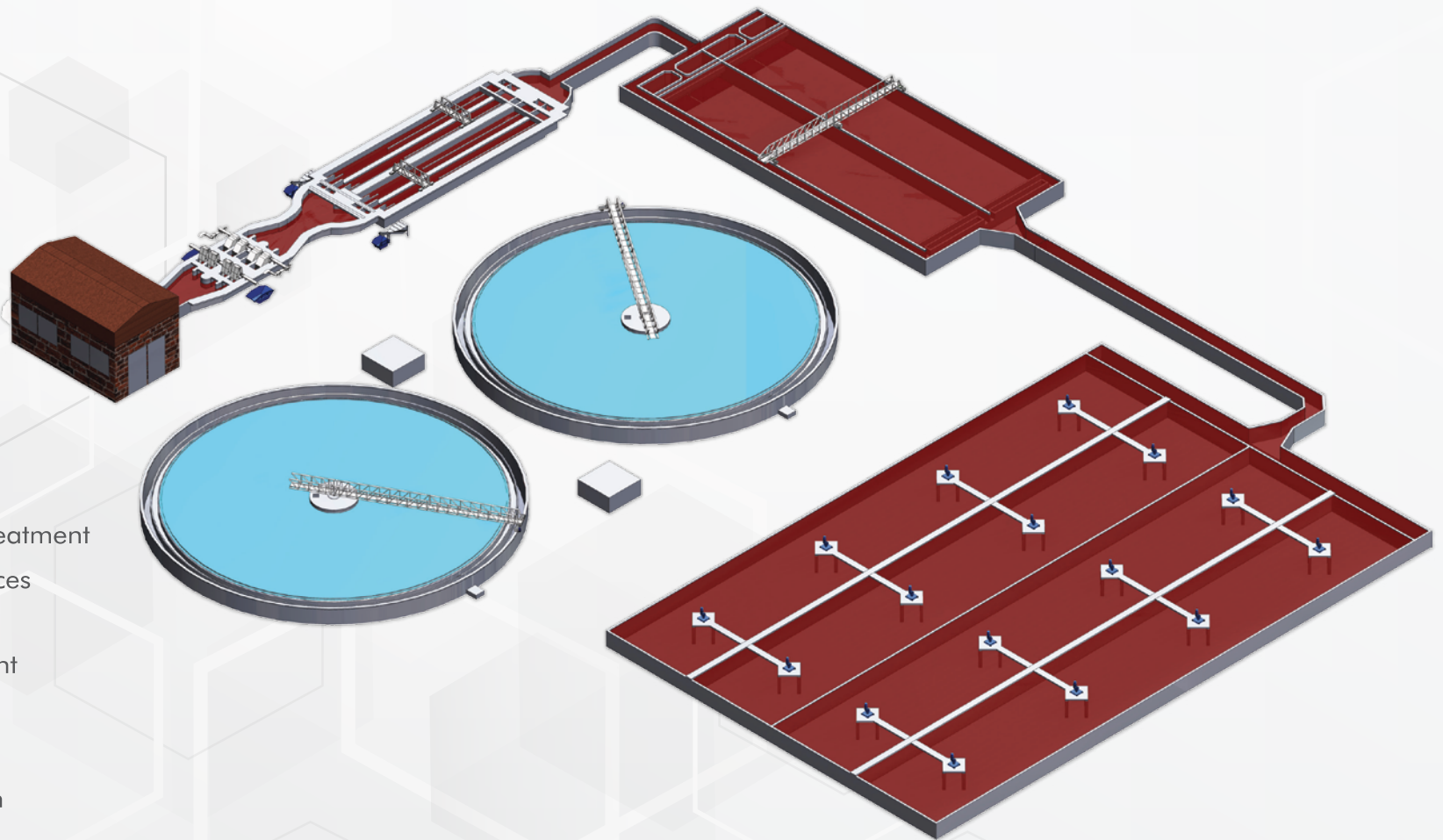


GOST

SOLUTIONS & EQUIPMENT FOR WASTEWATER TREATMENT PLANTS

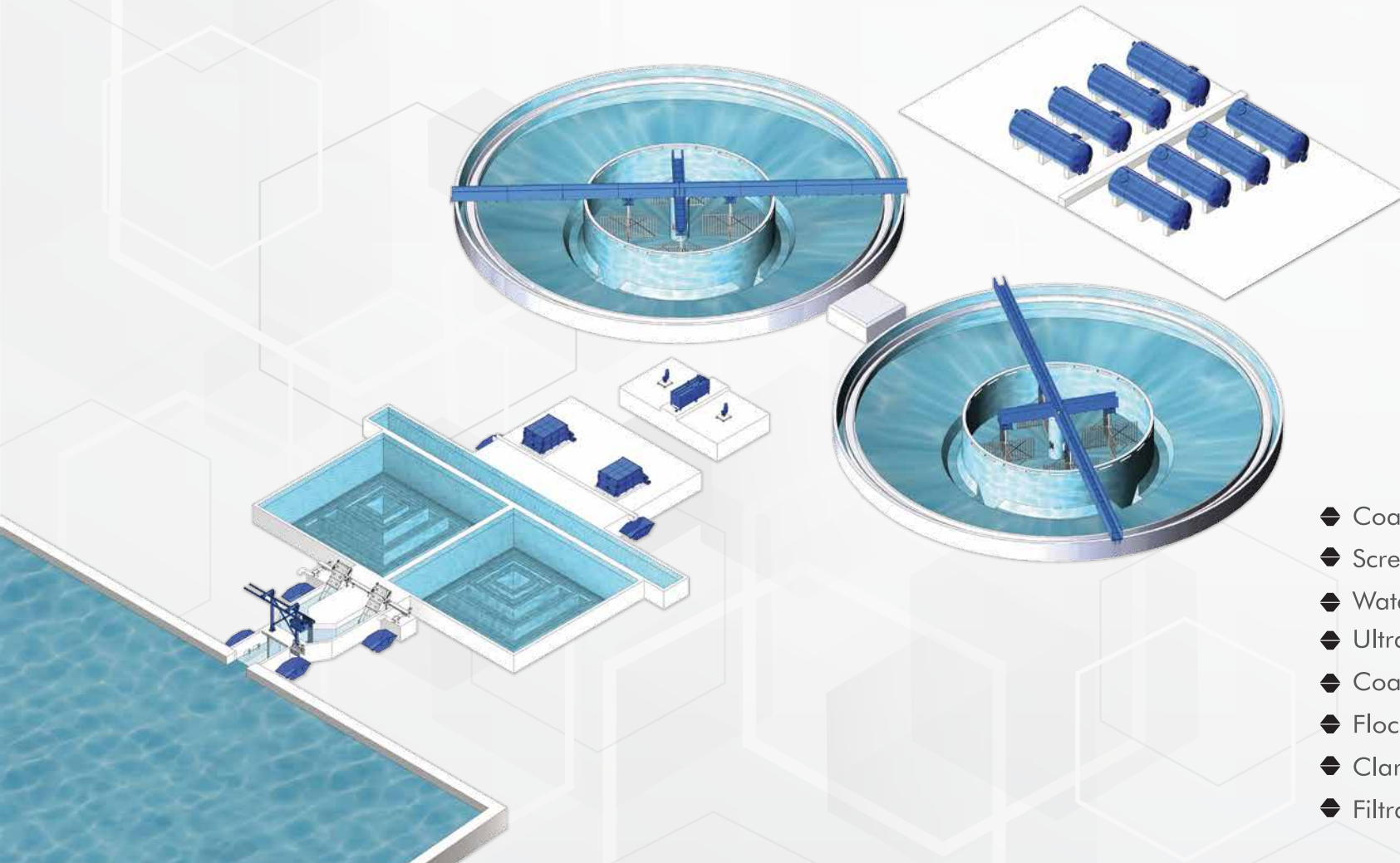
Astim has developed a great number of innovative solutions and equipment for wastewater treatment plants. Our solutions and equipment have proven their performance and reliability at various capacities and loads, from large scale municipal wastewater treatment plants to medium / small sized plants.

- ◆ Coarse & Fine Screening
- ◆ Screening Handling & Treatment
- ◆ Water Flow Control Devices
- ◆ Grit & Grease Removal
- ◆ Grit Handling & Treatment
- ◆ Primary Sedimentation
- ◆ Aeration
- ◆ Secondary Sedimentation



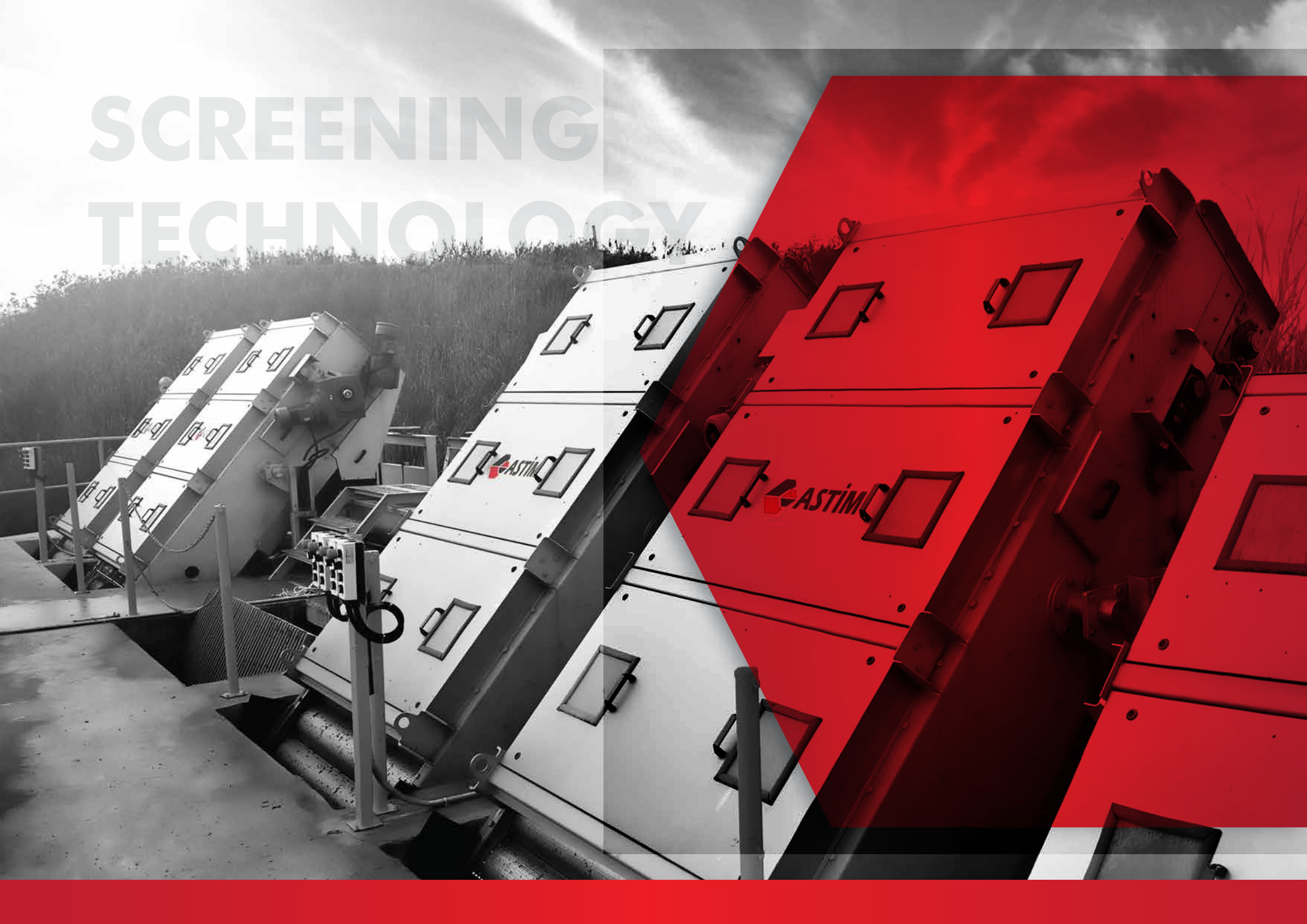
SOLUTIONS & EQUIPMENT FOR WATER TREATMENT PLANTS

Astim offers a wide variety of solutions and equipment for groundwater and surface water treatment. Depending upon the raw water quality, flow rate and operational preferences, Astim provides conventional treatment systems, combined treatment units and containerized plants.



- ◆ Coarse & Fine Screening
- ◆ Screening Handling & Treatment
- ◆ Water Flow Control Devices
- ◆ Ultra-Fine Screening
- ◆ Coagulants Dosing & Coagulation
- ◆ Flocculants Dosing & Flocculation
- ◆ Clarification
- ◆ Filtration

SCREENING TECHNOLOGY



SCREENING TECHNOLOGY

Efficient and reliable mechanical pre-treatment has a key importance for cleaning process in order to protect the following chemical and biological steps; as well as pumps, pipelines and other equipment from clogging and abrasion. Screening equipment are the most important members of this pre-treatment process as flow coming to the treatment plant will occasionally include wood, sticks, rags, and other debris in it.



Astim designs and manufactures a diverse range of screens for coarse and fine screening applications, offering the right solutions for every type of water and wastewater treatment plants. The screening equipment in all sizes are fully-automatic and capable of eliminating difficult substances with a high cleaning performance. The entire spectrum of screens have proven to be highly efficient and reliable.

Bar Screens

- ◆ Chain Driven Bar Screens
- ◆ Pin Rack Screens
- ◆ Cable Operated Bar Screens



Belt Screens

- ◆ Perforated Belt Screens
- ◆ Mesh Belt Screens
- ◆ Rota-Lift Screens



Equipment for further treatment of the separated screenings form a conclusive total concept for the pre-treatment stage of water and wastewater treatment plants. The screenings are wastes which must be minimized by reducing in mass and volume as much as possible. Screening treatment equipment not only dewater the screenings, but also remove the organic material in the screenings.

Inline Screening Systems

- ◆ Rotating Drum Screens
- ◆ Sewage Acceptance Plants




Screening Handling And Treatment Systems

- ◆ Belt Conveyors
- ◆ Screw Conveyors
- ◆ Screening Compactors



GRIT & GREASE REMOVAL TECHNOLOGY



Common practice for treatment plant design requires effective grit separation in order to reduce the wearing on the process pumps and other mechanical equipment.

Astim has a comprehensive product range for grit and grease separation, offering the best tailored solutions for all types of application including integrated compact systems for complete mechanical pre-treatment and further treatment systems for extracted material.

GRIT & GREASE REMOVAL TECHNOLOGY

Grit & Grease Removal Systems

- ◆ Travelling Grit and Grease Scrapers
- ◆ Rotating Grit Scrapers
- ◆ Vortex Type Grit Separators
- ◆ Grease Removal Systems



Grit Treatment Equipment and Systems

- ◆ Grit Classifiers
- ◆ Grit Washers
- ◆ Integrated Pre-Treatment Systems



AERATION TECHNOLOGY



The heart of modern biological wastewater treatment plants is the aeration tanks where the pollutants are removed by the living microorganisms. In order to accomplish this process efficiently, Astim provides mechanical surface aerators which are capable of transferring oxygen from atmosphere to the wastewater, while maintaining sufficient uniform mixing of the microorganism with the oxygenated wastewater without breaking up the activated sludge flocs.

AERATION TECHNOLOGY

Mechanical Surface Aerators

◆ Turbine Aerators

◆ Brush Aerators



SEDIMENTATION TECHNOLOGY

The image shows a large circular sedimentation tank, a key component in wastewater treatment. A curved metal skimmer is positioned at the edge of the tank to collect floating debris. The background features industrial buildings, suggesting a municipal or industrial water treatment facility. A large red geometric shape is overlaid on the right side of the image, containing text.

Clarification is the process of separating solids from the liquid by the principle of creating flocs from the suspended material and let these flocs settle by gravity in a calculated retention time. Removal of settle-able solids and floating material reduces the suspended solid content.

SEDIMENTATION TECHNOLOGY

The scraper mechanism which is installed inside the sedimentation tank collects the settled sludge as well as the floating scum. Selection of the sedimentation tank configuration and collector mechanism is governed by size of the installation, characteristics of solid suspension and type of process liquid.





Astim offers durable and high efficient clarification and sedimentation solutions with robust scraper systems tailored for any type of circular or longitudinal sedimentation tanks ensuring the reliable continuous operation.

Scraper Systems

◆ Peripheral Driven Scrapers ◆ Central Driven Scrapers ◆ Travelling Scrapers





WATER FLOW CONTROL

Water flow control devices play a central role in the isolation, regulation and control of water and effluent flows in treatment plants. Selection of the correct device to suit the duty is important to overcome the design criteria and provide the most effective solution. The range of available devices in Astim design and manufacturing scope is extensive; from simple direct operation by hand wheel to complex control systems by electrical, pneumatic or hydraulic actuation.

WATER FLOW CONTROL

Water Flow Control Devices

- ◆ Penstocks
- ◆ Stop Logs

- ◆ Over Flow Weirs
- ◆ Telescopic Valves





CONTAINERIZED TREATMENT PLANTS

Astim offers a wide range of containerized treatment plants for water and wastewater treatment applications as standard or tailored solutions. Containerized treatment plants are turn-key solutions for small communities and industrial facilities in rural zones serving to meet the treated potable water needs or sewage treatment necessities.

CONTAINERIZED TREATMENT PLANTS

- ◆ Containerized Sewage Treatment Plants
- ◆ Containerized Water Treatment Plants



EXPERIENCE AND QUALITY ALL AROUND THE WORLD

800 projects in 30 countries on 5 continents as solution partner of many international contracting companies.





ASTIM



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