



**INDUSTRIAL
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 INDUSTRIAL 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
- ◆ Balancing Tank Mixing
- ◆ Chemical Preparation & Dosing
- ◆ Flotation
- ◆ Aeration
- ◆ Sedimentation
- ◆ Filtration

Designed and improved with extensive experience in different types of industrial applications, Astim offers comprehensive line of process equipment using variety of technologies to obtain high quality results within small footprints. Constructed for maximum strength and durability, Astim process equipment are operating in various industries wastewater treatment plants.

- ◆ Food & Beverage Industries
- ◆ Iron & Steel Industries
- ◆ Pulp & Paper Industries
- ◆ Textile Industries

- ◆ Mining Industries
- ◆ Oil & Gas Industries
- ◆ Organized Industrial Zones
- ◆ Other Industries



SCREENING TECHNOLOGY

The image shows a large industrial screening machine in a factory. The machine has a large horizontal roller and a hopper below it. A worker in a cap and jacket is operating the machine. The background shows other industrial equipment and a concrete structure. The text 'SCREENING TECHNOLOGY' is overlaid on the left side of the image.

Water is used for many different purposes in industries. Screens are used to achieve the necessary mechanical treatment step of the industrial treatment plants. Performance enhancing equipment available for coarse and fine screening with bar, belt or sieve type screens as well as screening handling & treatment equipment are used to meet the challenges of industrial markets.

SCREENING TECHNOLOGY

Astim designs and manufactures a diverse range of screens offering the right solution for wastewaters from every type of industry considering the differing type of screening material that should be separated or recovered. Equipment for further treatment of separated screenings form a conclusive total concept for mechanical treatment stage of industrial wastewater treatment plants.

- ◆ Bar Screens
- ◆ Sieve Screens



- ◆ Belt Screens
- ◆ Screening Handling & Treatment



FLOTATION TECHNOLOGY

The image shows a large industrial flotation system. It consists of several vertical cylindrical tanks mounted on a metal frame. A central control panel with various buttons and a warning symbol is visible. To the left, there's a motor and a horizontal tank. The background shows a factory interior with high ceilings and windows. A large yellow geometric shape is overlaid on the right side of the image.

Where water is re-circulated for economic and environmental reasons, grease, oil, fat, floating and suspended solids, settling material, and dissolved components need to be separated to provide good and uniform water quality. Also recovery of valuable product from the water may be another additional objective. In addition, clogging and excessive wear of pipelines and other associated equipment is prevented, which increases the operating reliability of the production plant.

FLOTATION TECHNOLOGY

Dissolved Air Flotation is used as final step of pre-treatment not only to remove the floatable matter but also to prevent toxic or otherwise harmful substances from entering the sewer system. Conventional gravity clarifiers are often incapable to achieve sufficient pre-treatment. Astim Dissolved Air Flotation Units provide a significantly improved flotation process with pressure water recirculation which has proven itself as most effective type of dissolved air flotation.

- ◆ Circular Daf Units
- ◆ Rectangular Daf Units
- ◆ Compact Daf Units



AERATION TECHNOLOGY

An aerial photograph of a wastewater treatment plant's aeration tanks. The tanks are large, rectangular basins filled with dark, turbulent water. Several concrete platforms with metal railings are positioned around the tanks, each housing a mechanical surface aerator. The aerators are cylindrical structures with a central vertical shaft. The overall scene is industrial and shows the active process of wastewater treatment.

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

Astim provides vertical shaft turbine aerators and horizontal shaft brush aerators to fulfill the mechanical surface aeration necessities of different industrial plants with the most efficient solution. The aerator equipment is designed considering the power, speed, and shearing forces, which will mix the liquor without breaking up the activated sludge flocs. As the aerator rotates, the air is drawn into the liquid behind the blades and mixes with the wastewater in the region of the greatest turbulence.

- ◆ Vertical Surface Aerators
- ◆ Horizontal Surface Aerators



SEDIMENTATION TECHNOLOGY



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

Astim offers durable and high efficient clarification and sedimentation solutions tailored for any type of industry considering the characteristics of solid suspension and type of process liquid. Our line of industrial sedimentation units offers multiple equipment alternatives to ensure the best solution for treatment needs.

- ◆ Clarifiers
- ◆ Clariflocculators
- ◆ Compact Sedimentation Units



EXPERIENCE AND QUALITY ALL AROUND THE WORLD

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



An aerial photograph of an industrial plant, possibly a refinery or chemical processing facility. The image shows various buildings, storage tanks, and piping. A large, semi-transparent yellow recycling symbol is overlaid on the left side of the image. The word "ASTİM" is written in large, bold, white capital letters on the right side of the image.

ASTİM



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