Providing complete industrial wastewater treatment equipment, solutions, and control packages through in-house design, engineering, and professional project management. With over 100 years of combined experience, our team provides a full slate of services and engineer-to-order solutions to solve your most challenging problems.

Applications and Industries
- Metal Plating and Finishing
- Metal Manufacturing and Processing
- Automotive
- Pigment and Dye Manufacturing
- Painting and Coating Processes
- Steel Pickling
- Food Processing
- Mining
- Chemical and Pharmaceutical Processing
- Ground Water Remediation
- Sedimentation
- Produced Water for Oil and Gas

INCLINED PLATE CLARIFIER
Inclined plate clarifiers are effective for removing precipitates and non-biological solids from wastewater streams. In many applications, a wastewater treatment solution including an inclined plate clarifier is the most economical alternative to remove solids and reduce TSS, TDS, and BOD in the waste stream.

How does it work?
Once entering the influent chamber, the waste stream operates at low flow velocity and develops an even, laminar flow pattern across multiple parallel plates. The particles slide down the inclined plates and drop into the sludge hopper. Cleaned effluent exits through orifices at the top of the clarifier. The accumulated sludge can be pumped out using either an automated or manually run process.

By determining your flow rates, influent solids loading, and effluent requirements, EPS will calculate the plate surface area, spacing, and overall design to meet the application’s needs. Typical loading for our Incline Plate Clarifiers are 0.25 to 0.5 GPM per square foot of effective surface area.

When sizing your solution, EPS will account for several factors, including the type of solids, chemistry available, and the need to use auxiliary equipment and processes. When considering these factors, EPS utilizes our vast accumulated experience and the knowledge of industry partners to provide you with the lowest total solution cost.

www.eps wastewater.com
Benefits of the EPS Inclined Plate Clarifier

- The higher effective surface area of the incline plate design allows for lower cost of construction compared to other clarifiers.
- Our Incline plate clarifier’s footprint is typically 20% that of a conventional clarifier.
- The EPS design utilizes a 58 degree incline and plate spacing to reduce solids build up that can plug the slots between plates.
- The parallel plates are individually inserted into guides and can be removed without the use of additional equipment.
- Standard plates are constructed from polypropylene or stainless steel, offering excellent chemical and temperature resistance.
- All units are 10’ tall or less, allowing lower elevation auxiliary equipment such as reaction tanks and access platforms.

Standard features and available options

All of our inclined plate clarifiers come with integrated influent chamber, lower and upper clarification zones, effluent collection launders, and sludge collection hopper. EPS builds systems for flow rates from 5 to over 1,000 GPM. Each one has been factory tested and ready to connect via flanged fittings.

Available options and auxiliary equipment:
- Construction from polypropylene, stainless steel, or epoxy-coated carbon steel
- Influent equalization and pH adjustment
- Coagulation
- Flocculation
- Mechanical sludge thickening and control
- Fats, oils, and grease handling
- Filtration
- Solids handling and dewatering
- Full system sampling and monitoring
- Custom control panels designed, programmed, and built in house

Our Mission is to deliver wastewater treatment equipment and solutions that effectively and economically address the needs of our customers, achieving the highest possible level of customer satisfaction.

EPS WASTEWATER

Our full line of services offered includes: Sample Analysis, Bench Scale Treatability Studies, Water Balance & Waste Characterization, and On-site Piloting

- Inclined Plate Clarifiers
- Oil Water Separators
- Air Flotation Systems
- Triple Cell Media Filters
- UF Systems
- Chemical Mixing/ Flocculation
- Multi-media Filtration
- Heavy Metals Adsorption
- UV, Ozone and Advanced Oxidation

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