Inspired to create technologies that truly serve our customers needs beyond expectations

PRECICON

Electrostatic Precipitators

Field Services and Inspections

Precicon Technologies has the experience and capabilities to handle any size of ESP project work, including :

- Expertise with nearly every type of ESP in the world
- Project team specilized in ESP Project work
- Engineering and construction management services
- Excellent safety record
- Dedicated labour team who understand APC equipment
- Full control over manufacturing to ensure on-time delivery of parts and control systems
- Emergency rebuild services




Precipitator Mechanical Parts

Precicon Technologies supplies a wide variety of internal components of ESP's

- Collecting Plates to fit most designs
- Rigid discharge electrode/wire discharge electrode
- Rapper and rapper train components
- Insulators
- Hoppers and dust work


Precipitator Electricals of Electrostatic ESP Electricals and Electronics

Performance impact of electrical and electronics devices used in electrostatic precipitators are often underestimated and misunderstood too. To ensure that your ESP is operation at maximum efficiency and reliability, PRECICON Technologies offers complete ESP electrical and electronic retrofitting based on the right calculations for your equipment and process.

ESP Automatic Voltage Controller

PRECICON Technologies offers complete retrofit of voltage controllers for Transformer Rectifiers for every type of electrostatic precipitator. The controllers come with all the essential and the latest features such as automatic spark rate controls, alarm analysis, back corona control, inbuilt oscilloscope and interfaces with computer based data acquisition.

Key benefits

- Reduction in emission
- Optimization of Power consumption
- Remote monitoring
- Operational Reliability
- Reduced maintenance
- Reduced manpower involvement

Increased safety of the electrical equipment and ESP components


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PRECICON TECHNOLOGIES

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Get the maximum from your Existing Precipitator System.

The question often asked is can we derive extra performance from old precipitators? The answer is "You can"! OEMs often leave, intentionally or unintentionally, a lot of extra margin that can be utilized. Precicon Technologies with its most modern technical tools will show you how!

Also old systems often lack support from original equipments manufacturers due to various reasons. This often causes problems resulting in loss of productivity & reduction in efficiency for most of today's the ESP systems.

Precicon ESP parts, solutions & Services are calculated and engineered to keep the ESP at peak performance. We have working experience in nearly 20 different industries with all major brands. This enables PRECICON Technologies to provide integrated solutions to enhance original equipment performance to peak levels.

PRECICON Technologies Provides internal parts and services to help keep your ESP running efficiently & profitably while meeting current and future particle requirement.

We, while working on solutions, keep a perfect balance between your capital and running costs. Also, our schemes always aim at achieving the result with the minimum shut down period.

Our combination of innovative products includes:

- Internally Rapped Precipitators
- Conversion: ESP to Bag House
- Conversion: Weighted Wire to Rigid Discharge Electrode
- Precipitator Rebuilds
- Precipitator Mechanical Parts
- Field Services and Inspections
- Precipitator Electricals of Electrostatic Performance Enhancement

When considering the cost of new equipment upgrade, conversion or rebuilt, we offer the most cost effective solution to help you meet current particulate matter control equipments.

PRECICON

Upgrade, Services and Training for better performance

Precicon Technologies decades of experience on hundreds of OEM precipitators worldwide, Precicon Technologies highly trained experts can help determine the best way to upgrade or improve existing equipment

Electrostatic Precipitators

ESP Engineered Systems

Internally Rapped Precipitators

Conversion: Bottom Side Rapping to Top Rapping / Tumbling Hammer to MIGI Rapping

PRECICON Technologies precipitator upgrades can help increase efficiency and correct problems found with Tumbling-Hammer ESPs. This upgrade improves the original unit design by adding electrical sections, increasing plate area up to 30% for better performance and allowing to top access for easier maintenance.

Up-grade comprises:

- Increased precipitator efficiency due to enlarged treatment area.
- Easy access to internal components.
- Inspection and maintenance performed at the top of the unit.
- Rappers can be repaired while unit is working.
- Adjustment of individual rappers to strike as required different intensity.
- Less maintenance as there is no any moving parts.
- Less effects of sparking.
- Healthy alignment can be maintained




Conversion: ESP to Bag House

The ESP has been one of the most reliable air pollution control systems. Several of projects utilize this work force in their processes and many will continue to rely on the ESP as their primary equipment for dust production. This is especially true in cement plants, where higher production rates have become more important than ever. To handle increased production, an ESP may require a rebuild or installation of additional plate area to be properly sized for the new production rates. Other issues like together tight emissions standards, have company looking to enhance their APC system to meet stringent air quality regulations.

Increased emission requirements and emerging alternative energy forms require more from today's ESP. PRECICON Technologies makes it easy to convert precipitator to Pulse Jet bag house for increased efficiency and reduced emissions nearly to zero. A bag house offers several benefits when compared to an electrostatic precipitator.

Conversion comprise

- Higher efficiency for most applications
- Increased tolerance of changes in dust load
- Potentially increased gas volume capability
- Easy maintenance



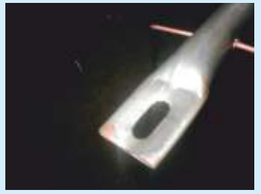


Conversion: Weighted Wire to Rigid Discharge Electrode

Many customers of weighted wire or rigid frame type precipitators are choosing to rebuild their system with more reliable rigid discharge electrode to increase performance and equipment availability. PRECICON Technologies supply finest quality rigid discharge electrode with many available options material of construction, pin spacing. We can design and built the optimum rigid discharge electrode for the process and TR ratings, and can easily provide custom designed electrode for any precipitator applications,

Key benefits,

- No more broken wire and short circuit the field
- No weights to fall in to the hopper or damage the ash evacuation system
- No inventory is required.
- One RDE's can replace two wire and weights of electrode
- RDE's can clean easily and completely than wire, it helps to enhance the precipitator performance.
- Low corona onset voltage
- Pin spacing can be designed for best performance




Precipitator Rebuilds

PRECICON Technologies provides innovative ESP rebuild solutions. With our years of experience and application expertise, we have developed customized rebuild plan using information gathered by precipitator operation, physical equipment assessment and compare it to production requirements and emission reduction goals. Rebuilds can include replacement of mechanical components (emitting electrode, collecting electrode and rapper train components) electrical components and controls and dedicated team or engineers that will help a rebuild is successful.

A Rebuild may benefits your collection efficiency when faced with followings conditions

- Process or fuel changes
- Excessive plate detoration
- Damage due to fire or explosion
- Insufficient collection area
- Excessive maintenance cost
- Loss product during the collection process

PRECICON Technologies has the experience and capabilities to handle any size of ESP project work comprises,

- Expertise with nearly every type of ESP.
- Engineers and crews specialized in ESP project execution
- On time parts delivery of parts and control system
- Engineering and construction management services
- Excellent safety record