VT Corp

Vision To Clean

ISO 9001 2015











Electrostatic Precipitator

Protect the Environment

About Us:

The VT CORP Electrostatic precipitators were introduced in the market during year 2000-01 considering the increasing demands of new build ESPs. The basic designs are based on the most reputed European design standards and has constantly been optimised.

VT CORP ESPs are designed for the various applications like Cement, Steel, Power, Sugar, Paper etc. for various dust load and outlet emissions upto 20mg/Nm3. Over the period there has been stringent norms by Central Pollution Control Board for reduction of emissions to as low as 100mg/ 50mg/30mg per Nm3 from the existing ESPs depending on the year of installation.

VT CORP have almost 650+ installations in various industries for different applications in India and abroad. With our latest smart internals (collecting and emitting electrodes) & with the help of latest technology high voltage power supply and controls is now offering a composite solution to reduce the particulate matter emissions over the existing emissions to meet the CPCB norms at an optimum CAPEX.



Types of ESPs

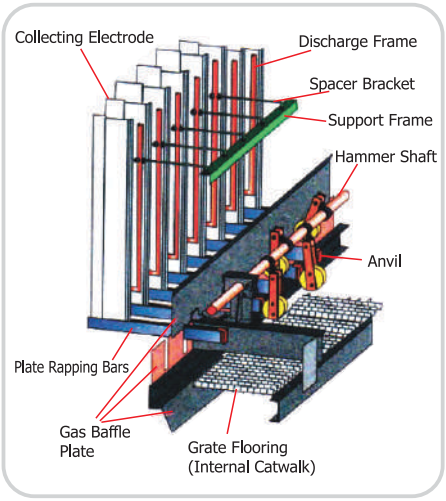
Bottom Rapping - Tumbling Hammer Design

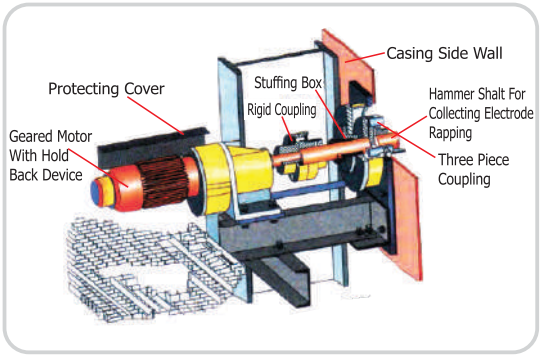
Top Rapping - Tumbling Hammer Design

Top Rapping - EMIGI Design

Rapping Systems

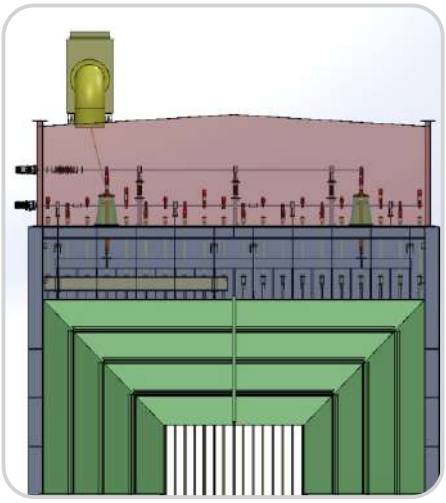
Bottom Rapping - Tumbling Hammer Design





- Independent Rapping of each row of Collecting Electrodes
- Effective Dust removal
- Easy Maintenance and trouble free operation

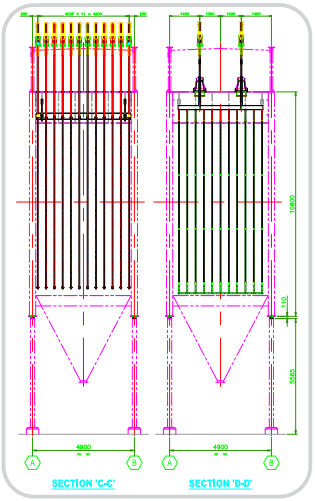
Top Rapping - Tumbling Hammer Design

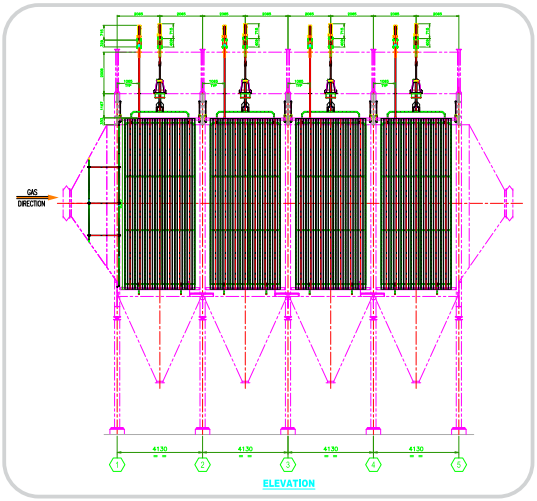




- Compact model and no moving parts in the flue gas path
- Less footprint area
- Less wear and tear
- Easy maintenance and easy to install at site.
- Minimum erection time.

Top Rapping - EMIGI Design

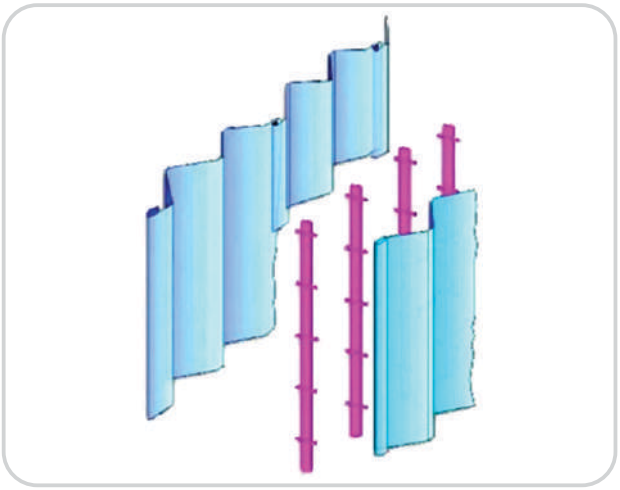




- Electromagnetic coil rapping system.
- Low Maintenance
- Efficient Dust Removal
- Less Space Requirement
- Reduced wear and tear
- Ease of installation and maintenance
- More reliable high- temperature or high-resistance environments.

Smart Parts

Collecting Electrode (VT 240)



- Uniformity in current profile with optimization
- Improved transmission of rapping forces across the width and height of collecting plate
- Better collection efficiency
- Specially crafted trapezoidal profile providing maximum collection of particulate matter

Discharge Electrodes

Emitron (0,15,25) Electrode:

- Better collection efficiency
- Selection of Emitron pins is application based
- Robust design due to rigid frame assembly
- Perpendicular placement of Emitron Pins enables effective charging
- Light weight, easy handling at site

Star Electrode:

- Intense corona generation throughout the length
- Mechanically stable electrodes for optimum rapping vibration
- Durability and long life



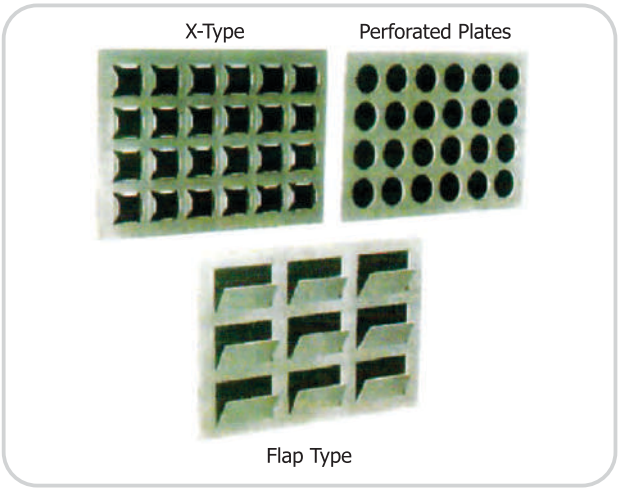
Emitron (0,15,25) Electrodes



Star Electrodes

Gas Distribution Plates (GD Plates)

- Specially Designed 'X' Type,'Flap' Type and 'Perforated Type'
- GD plates at inlet cone to ensure an even distribution of the incoming gas flow throughout the cross-section of the Precipitator.
- Low pressure drop enables lower power consumption



Retrofitting Solutions

VT Corp Pvt Ltd offers Retrofit and Modification services to upgrade existing ESPs for industries that are looking to meet tighter emission norms or increase the efficiency of their pollution control systems. This includes upgrading electrical systems, rapping mechanisms, and mechanical components of older ESPs.

Advanced Upgrades:
- Electrical systems, Rapping Mechanisms, Mechanical Components
- Efficiency and Performance Improvement : Enhanced Efficiency, Increased Reliability
- Compliance with Emission Norms: Regulatory Compliance, Future Proofing
- Ongoing Support and Maintenance: Continuous Monitoring, Technical Support
- Proven Expertise of VT Corp

Efficiency and Performance Improvements:
- Enhanced Efficiency: Implement state-of-the-art technologies to boost the operational efficiency of your ESP, resulting in lower energy consumption and reduced operational costs.
- Increased Reliability: Upgraded systems provide more consistent performance and minimize downtime.

Compliance with Emission Norms:
- Regulatory Compliance: Ensure your ESP meets the latest environmental regulations and emission standards, helping you avoid penalties and improve environmental stewardship.
- Future-Proofing: Prepare your system to meet upcoming regulations with scalable and adaptable solutions.

Ongoing Support and Maintenance:
- Continuous Monitoring: Regular checks and updates to ensure the upgraded system performs optimally.
- Technical Support: Expert assistance to address any issues and maintain system efficiency.

Industry-Specific Solutions:
- Customized Upgrades: Solutions designed for specific industries, including power generation, cement, and other industrial sectors, to address unique operational challenges.

Proven Expertise:
- Experienced Team: Leverage VT Corp's extensive experience in ESP technology and modernization to achieve superior results.
- Successful Projects: Showcase case studies or examples of previous successful R&M projects to build credibility and trust.

Industries we cater to...

Power



Steel



Cement



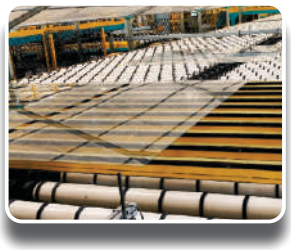
Sugar



Palm



Glass



Textile



Paper



and many more....

Our Other Technology Solutions



Forced Draft Cooler

The Forced Draft Cooler is tubular convective type Heat Exchanger used for cooling of hot gases. In Sponge Iron Plants the kiln outlet gases are at approx. 900 to 950 °C. These flue gases cannot be let out to atmosphere as it is and are to be de-dusting. Hence, it is mandatory to provide Dust Collecting system. The major problem of providing the Dust Collecting System is the temperature of the flue gases and it becomes necessary to cool the kiln exhaust gases to around 180 to 220 °C.

System Advantages

- No Water required. Hence saving in cost
- Less Power Consumption due to low pressure drop of System
- Low in operating cost – Due to use of ambient air
- Easier to install, clean and maintenance due to Modular System

Our Installations Across the Globe



- India
- Dubai
- South Africa
- Malyasia
- Nepal
- Peru
- Sri Lanka
- Bangladesh
- Oman
- Bhutan
- Kuwait
- Mexico
- Thailand
- Philippines
- South America
- Sierra Leone
- Qatar
- Columbia
- Kenya
- East Africa
- UAE
- Bahrain (Middle East)
- Saudi Arabia
- Abu Dhabi

VT Corp

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