

# GE TEK

We Care for Power & Environment



## HIGH CURRENT RECTIFIERS

Anodizing, Electroplating, CED Coating, Electrolysis, Electro Chlorination, Water Treatment, Battery Charging

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## Rectifier Specification & Range

Rectifier Type	: IGBT High Frequency Modular Rectifier
Input Voltage	: 380-440 VAC 3 Phase ,50/60 Hz
Output Voltage	: 6V -600V DC
Output Current	: 10A -30KA
Control Accuracy	: Less than 1 %
Control Mode	: Constant Voltage / Current
Cooling	: Forced Air/Oil/ Water Cooling
Local Operation	: HMI Display
Remote Operation	: Ethernet TCP/IP Communication



***GE TEK Electronics make modular IGBT switch mode rectifiers are designed to give best electrical performance for metal finishing process and uniform plating quality.***

### Protection

- Phase failure
- Input Over / Under Voltage
- IGBT Short circuit protection
- Output Over Current
- Overheat protection

### Advantages

- Huge space saving
- Accurate voltage control
- Near to unity power factor
- Better than 90% efficiency at rated load





## IGBT Oil Cooled Rectifier

Designed for corrosive environment with the unity power factor technology to give high efficiency and reliable product for Indian conditions.



## IGBT Water Cooled Rectifier

Best option for High current rectifier, even 20KA rectifier can be designed in a single cubical with IP54 class to sustain corrosive environments with HMI facility.



### Advantages

- No need for separate input variac control
- HMI for accurate Voltage control
- Easy to communicate with PLC/SCADA





# Thyristor Controlled Rectifier

GE TEK Make Thyristor controlled rectifiers in six (6) pulse, twelve (12) pulse, configurations with precise voltage control and ripple filtering for electrocoating & electrolysis applications, with HMI/LCD operation.



## Technical Parameters

- AC Input Voltage : 415 V, +/- 10%  
Three Phase 50Hz
- DC Output : Customized Output
- Output Pulse : 6/12/24 Pulse Configuration
- Voltage/Current  
Range : 10 to 100 %
- Type of Regulation : Constant Voltage /Constant  
Current
- Type Of Control : Thyristor Phase Controlled
- Output Stability : +/- 1%
- Cooling Type : Forced Air/Oil/ Water Cooling



# ESP



## ELECTROSTATIC PRECIPITATOR

### Principle of Operation

**Stage:1** A high voltage is applied between the discharge and collecting electrodes, generating a corona discharge that produces negative ions

**Stage:2** The negatively ionized dust particles are attracted to the collecting electrode due to electrostatic attraction between the two unlike charges

**Stage:3** The dust accumulated on the collecting electrode is removed and collected into the hoppers by rapping system

### Feature

The unique characteristic of ESP lies in the direct application of a separating force to the particles, which does not influence the entire gas stream. This results in a significantly lower pressure loss in comparison to other type of dust collection systems.

### GE TEK is a world class supplier to

- Boiler OEM's
- Sugar Industry
- Process Industry
- Pulp and Paper Industry
- Cement Industry
- Steel & Sinter Plants
- Power Plants
- Glass Manufacturing Plants
- Palm
- And various other industries

### Advantages

- ESPs are very efficient even for small particles
- Operating costs are reduced by low energy consumption
- Minimal maintenance requirements
- Can be designed to handle wet and dry gas compositions for a wide range of gas temperatures.
- Handle large volumes of gases
- Low pressure drop
- To Handle High Moisture & High Unburnt Carbon

### Highlights

- Core Competency
- Well proved design
- Selection of Collecting & Discharge Electrodes
- Efficient rapping
- Low weight
- Competitive design (Low Weight)
- TR Set controller (OWN Design)
- In-House Manufacturing facility
- Strength of Execution
- Vide Commissioning knowledge

Exclusive design for both Tumbling (Bottom and Top Rapping) and EMIGI.

**TUMBLING & EMIGI**



# ESP PRESTIGIOUS PROJECTS



Nestle India



JK Tyres



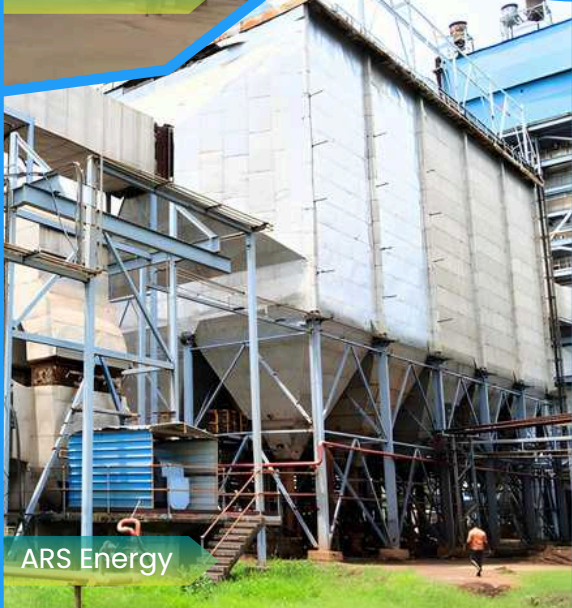
TNPL



Aryan Boilers



Saint Gobain



ARS Energy



Renuka Sugar



# RECTIFIER PRESTIGIOUS PROJECTS





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