



**IJT BOILERS**

# Waste Heat Recovery Boilers

Heat Sources include:

Sponge Iron (DRI) • Coke Oven • Iron & Steel • Refineries  
Metallurgical Plants (*Copper, Zinc & Lead*) • Sulphuric Acid • Cement • Chemical



**ENGINEERING FOR EXCELLENCE**



## Sponge Iron (DRI) Waste Heat Recovery Boiler

### Features:

- Waste Heat Boiler for Sponge Iron (DRI) for 50, 100, 150, 350 & 500 TPD plants.
- Designed upto 110 kg/sq.cm pressure.
- External heat addition to augment power generation.
- Optimised gas side design for improved life of tubes by reducing corrosion.
- Lower dust settlement on Heat Transfer Area (HTA).
- Bottom and top supported.



## Coke Oven Waste Heat Recovery Boiler

### Features:

- Highest steam pressure of 110 kg/cm<sup>2</sup>(g), under operation at Gerdau, Tadipatri.
- Compact two pass vertical design.
- Designed to handle fluctuating plant operating conditions with good circulation.
- Uniform steam outlet temperatures at varying gas inlet temperatures.
- External heat addition.

## Waste Heat Recovery System for Steel Plants, Sinter Plants, BOC Converter

### Features:

- Designed to handle the gas from batch / continuous processes.
- High volume, high temperature and high dust laden gas.
- Designed to protect the steam generating parts from sudden temperature rise in the plant operation



## Cement Waste Heat Recovery Boiler

### Features:

- Waste Heat Boilers for cement plant – Pre- Heater (PH) and cooler (AQC).
- Design gas / air inlet temperatures for complete range.
- Dual / Single pressure cycle.
- Configured for minimum pressure drop, lower velocity and easy maintenance.
- Vertical / Horizontal configuration to suit the plant layout.
- Double seals for hammering points.
- Modular design for reduced site work.
- Integral / External Pre Dust Collectors for AQC Waste Heat Recovery Boiler.



## Waste Heat Recovery Boiler for Other Applications

### Features:

- Sulphur recovery plants
- Heat recovery from chemical plants / refineries, exothermic heat release.
- Heat recovery from Incineration process (solid / liquid / gaseous).
- Engine exhaust heat recovery.

## Advantages

Clean Power Generation

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High Return Rates

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Turnkey Solutions

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Increases Process Thermal Efficiency

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Low Maintenance Costs





## Few of our Prestigious Clients

- Gerdau Steel India Ltd.
- Tokyo Eastern Cement Company Ltd.
- Deify Infrastructure Ltd. (Jayaswal Neco Group)
- Ghankun Steels Private Ltd.
- Siddhi Vinayak Cement Private Ltd. (Nirma Group)
- Rashmi Group
- Shyam Sel Group

## Isgec Offerings

### STEAM GENERATORS

- Pulverised Coal Fired (PC)
- Circulating Fluidised Bed Combustion (CFBC)
- Atmospheric Fluidised Bed Combustion (AFBC)
- Travelling / Pulsating / Pinhole / Dumping Grate
- Oil & Gas Fired
- Heat Recovery Steam Generators
- Waste to Energy
- Waste Heat Recovery
- Slop / Spent Wash / Vinasse Fired

### AUXILIARY EQUIPMENT \*

- Air Pollution Controller (ESP)
- Deaerator / Fans
- Valves
- Electricals & Instrumentations
- Burner
- Bed Ash Coolers
- DCS
- Feeders
- Pumps

### STEAM GENERATOR SERVICES

- Site Construction & Commissioning
- Retrofitting and Modernisation
- Replacement / Upgradation of Parts
- Troubleshooting & Services
- Residual Life Assessment (RLA) Studies
- Training
- Spares
- Operation & Maintenance

### EPC PROJECTS

- Independent Power Plants
- Cogeneration Plants
- Sugar Plants
- Bulk Material Handling
- Water Treatment Plants
- Distilleries
- Civil Construction including Factories
- Waste Water Treatment Equipment

\* Only available with the Boiler

**Feed Cycle Equipment (HP Heater, LP Heater & Condenser)  
Process Equipment • Presses • Castings • Contract Manufacturing**



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