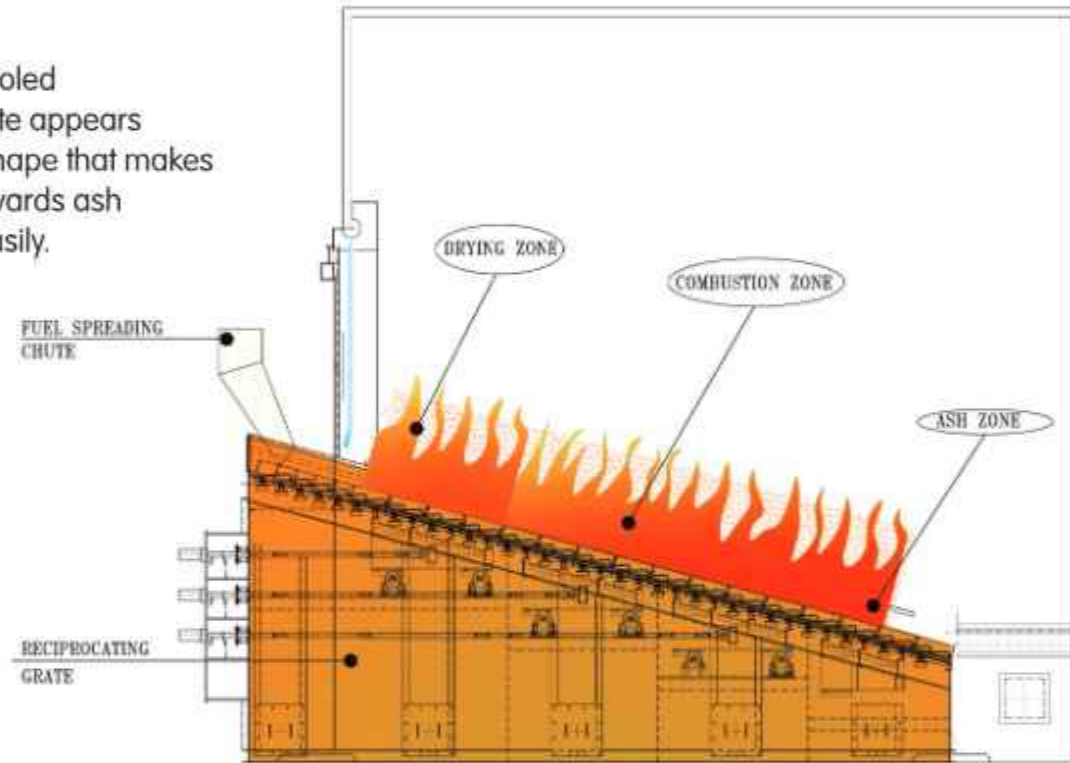


## Benefits of CBL's Reciprocating Grate

- The entire grate is divided into different sections i.e. Drying, Combustion, Post-combustion and Ash zone. The air/speed can be controlled for each section.
- Fuels with High Moisture content up to 50-55% can be fired.
- Suitable for complex and versatile Biomass fuels.
- The sloped air-cooled reciprocating grate appears inclined ladder shape that makes the fuel move towards ash discharge end easily.
- The fixed grate and moving grate bars are arranged at regular intervals. The movable grate will reciprocate motion through the hydraulic drive. This helps the fuel move uniformly and discharges regularly.



## Multiple Biomass fuel options are available

- **BALE** - Paddy Straw / Cane Trash
- Mustard Straw / Husk
- Crushed Briquettes / Wood Chips
- Ground nut Shell
- Herbal Waste
- Coconut/ Palm waste
- Palm Fiber
- Coffee Husk
- Lignin wet cake etc.

## OUR OFFERINGS

### CPP/IPP

- Powerpac Boilers
- Atmospheric Fluidized Bed Combustion Boiler (AFBC)
- Travelling Grate/Dumping Grate/Pulsating Grate/ Reciprocating Grate / Water Cooled Vibrating Grate
- Slop Fired Boilers
- Waste Heat Recovery Boilers (WHRB)

### Process Industrial Boilers

- Hypac - AFBC
- Energypac - Grate Fired
- Energypac Plus
- Effypac - Manual / Auto Fired
- Oilpac / Gaspac

### Thermic Fluid Heaters

- AFBC / Grate / Oil & Gas

### Retrofit & Spares

- Spares for Boilers
- Structures
- Centrifugal Fans
- Boilers Services
  - Annual Service Contract
  - Engineering and Operation audit of Boilers
  - O&M Services
  - RLA / Health audit of Boiler
- Pollution Control Equipment's
- Electrostatic Precipitators (ESP)
- Bag Filter
- Cyclones
- Wet Scrubber



CBL quality standards are inspected and certified by prestigious global agencies like:



## Certifications and Accreditations

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018
- ISO 3834-2:2005
- EN1090-1:2009 + A1: 2011
- EN1090-2:2018
- ASME 'U', 'S' & 'H' Certificates



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All accessories shown do not form part of standard supply | In view of our endeavour to improve the quality of our products, the company reserves the right to alter or change specifications without prior notice.



## Multi Fuel Fired Advanced Biomass Fired Boiler

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3000+ Working  
INSTALLATIONS



## About CBL

- Cheema Boilers Limited (CBL) has made a mark for itself in the last three decades by manufacturing premium range Boilers and allied products for clients across the globe and maximising its reach worldwide.
- CBL stresses largely on promoting safe and efficient energy consumption in its mission of reducing the carbon footprint.
- CBL track record of path-breaking engineering, well-versed Project Management, Commissioning expertise and state-of-the-art manufacturing facilities enable the company to deliver the products of supreme quality.
- CBL operates with a large sales and service network covering entire India as well as many overseas locations.

## Features of Reciprocating Grate Boiler

- **Three Pass** Water Wall design.
- Large **fuel retention** time as compare to normal boilers.
- Tall and Multi-pass furnace increases the **residence time of flue gases**, allows fuel to burn completely before entering the Convection Heating Surface.
- Less **chocking**.
- High Pressure, deep penetration **secondary air jets** are strategically located at multiple levels in furnace walls, ensuring proper turbulence and good mixing of volatiles with air and complete combustion.
- Optimum gas velocity across the water wall reduces erosion and increases heat transfer coefficient.

## RECIPROCATING GRATE BOILER

