



Leading Biomass Boiler Company in Southeast Asia

Boilermech Sdn Bhd is the leader in biomass boiler industry. Our expertise lies in the design, manufacturing, installation and commissioning of bi-drum water tube boilers fired using various biomasses, such as palm, bagasse, wood and rice husk.

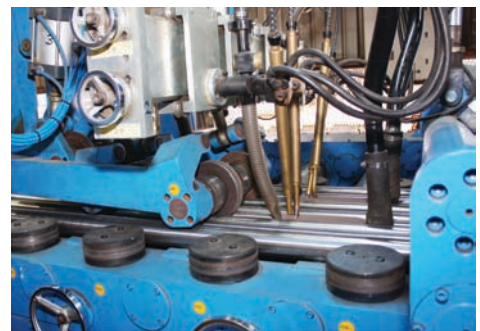
To date, we have installed more than 400 units of biomass fired boiler internationally. We offer various grate design options suited for different fuel types and qualities.



International Standards

Boilermech operates on 8.8 acres manufacturing site in Subang with a production capacity of more than 10 boilers per month. The manufacturing facility is equipped with automated CNC drum drilling, membrane wall welding and plate rolling machineries, which enable it to achieve consistency in its quality.

We are ASME-qualified for U and S stamp for design and manufacturing of pressure boilers and power boilers. We also design and fabricate boilers in accordance with BS standards.

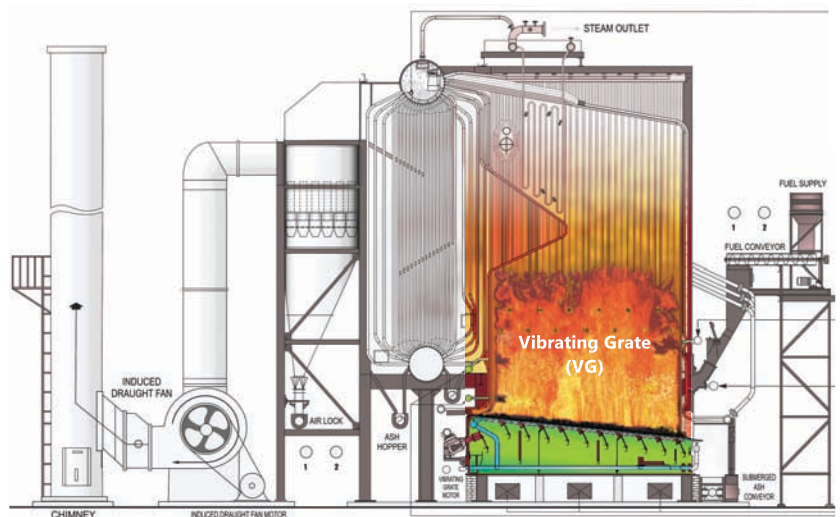


Proven Combustion Grates

Vibrating Grate (VG)

The BMWT boiler combines the water cooled Vibrating Grate and an advance spreader stoker technology with an automated ash discharge system. This feature enables our boiler to handle a variety of high moisture, low ash fuels across a wide range of steam capacities. Firing of the water cooled grate is based on combustion conditions instead of cooling air requirements, maintaining higher combustion air temperature that is critical for burning higher moisture biomass fuel without damaging the grate. Furthermore, as the need for cooling air is minimized, machinery efficiency is significantly improved while emissions are reduced as the automatic ash discharge also decreases furnace upset for better emission control and reducing cleaning shutdown.

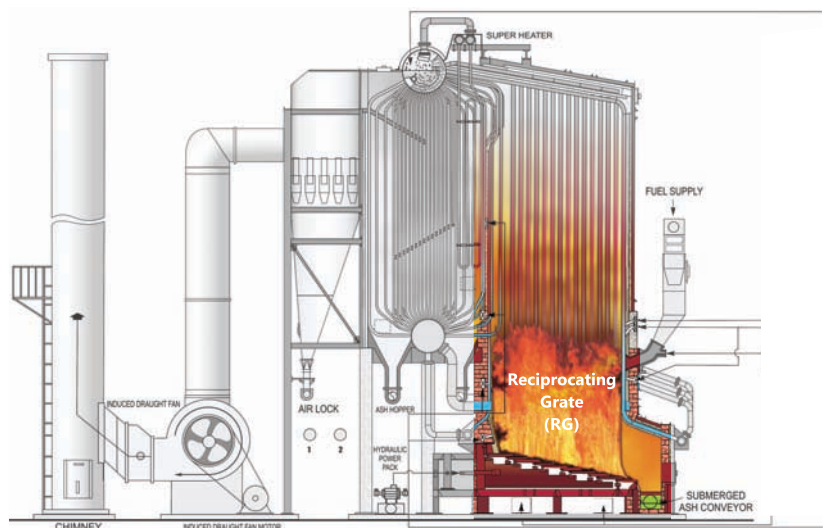
CAPACITY 10–130 T/HR	TEMPERATURE UP TO 460°C	DESIGN PRESSURE UP TO 100 BARG
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Reciprocating Grate (RG)

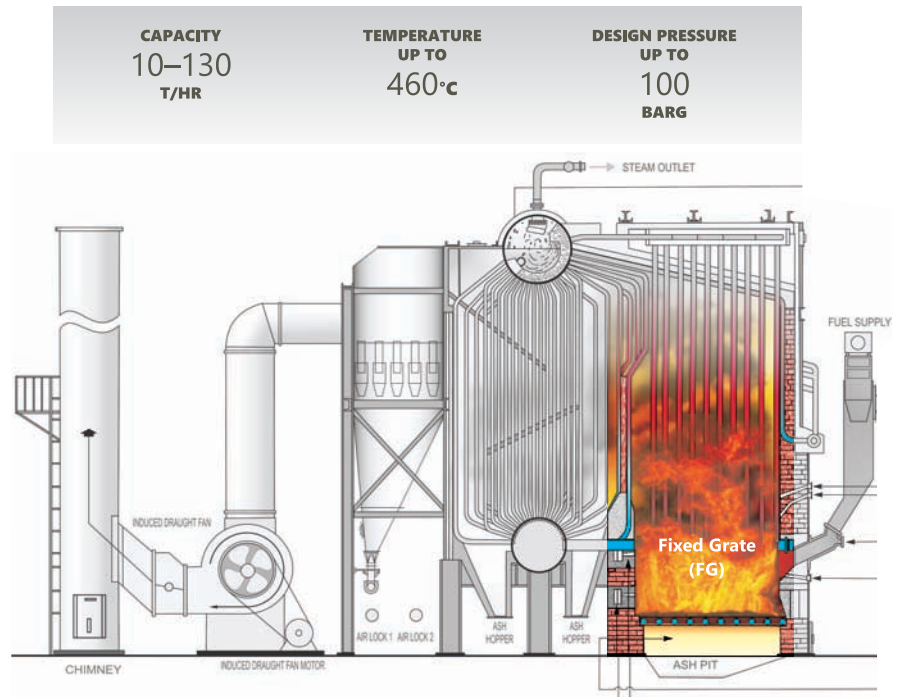
Most suitable for very high moisture biomass fuel, the BMWT boiler with Reciprocating Grate is known for its user-friendliness and proven track record, where fuel is metered through a spreader feeder that distributes it uniformly at the far end of the grate area. The burning biomass is then conveyed forward periodically throughout the firing chamber by the grate's reciprocating action as it tumbles and mixes the refuse and primary air uniformly to ensure effective combustion directly on the grate. The reciprocating action also discharges residue and ash from the back end to the boiler front to be discharged by means of a submerged ash conveyor.

CAPACITY 10–130 T/HR	TEMPERATURE UP TO 460°C	DESIGN PRESSURE UP TO 100 BARG
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Fixed Grate (FG)

The BMWT boiler with Fixed Grate air or water cooled is an easy and simple to operate unit and hence is commonly used across the biomass industry. Most suitable for millers or industrial usage, it is known as a cost effective boiler that does not compromise on performance. With a fuel feeding option of either a pendulum or a spreader feeder, fuel is delivered onto a flat and fixed grate for an even and complete combustion. The grate can also be customized with water or air cooled grate to allow it to handle higher temperature during combustion, hence protecting the material from usual wear and tear. This simple yet proven design runs on low maintenance, and its parts are also easily available in the market.



Biomass Fuel

Because not all mills are run the same, this makes every client unique from one another and therefore Boilermech has a wide experience with our clients' fuel needs. Be it palm waste (mesocarp fibre, kernel shell and empty fruit bunch), sugar waste (bagasse), wood waste (wood chip and saw dust) or even paddy waste (rice husk), Boilermech has the experience to cater to your needs. We have even designed boilers suitable to handle high amount of empty fruit bunch for our power plant projects which is usually considered a more difficult fuel to handle due to its lower calorific value and high moisture content. Whatever fuel our client has available, our team will design a boiler suitable to your needs for optimum performance.



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