



Biomass Fired Steam Boiler

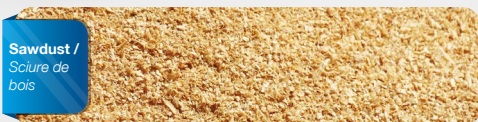
"Your Energy Source"

Steam Boiler Systems
Industrial Boiler Components

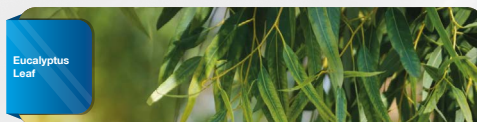




2020 - 2021 / Cameroun
Biomass Fired Steam Boiler (Capacity: 12 TPH - 13 Bar)



Sawdust /
Sciure de bois



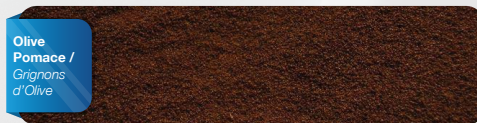
Eucalyptus
Leaf



Wood Barks /
Ecorce



Woodchips
Copeaux de bois



Olive Pomace /
Grignons d'Olive



Sunflower Shell Pellet /
Coquille de graines de tournesol pellet

ISIMEK BIOMASS FIRED STEAM BOILERS



Special moving grate technology allows you to burn up to
50% Moisture Content Biomass fuel & also up to 20% content RDF.

Industrial Biomass Steam Solutions: ISIMEK designs, engineers, and manufactures industrial biomass steam boilers with capacities from 500 kg/h up to 50,000 kg/h, tailored to meet specific customer requirements.

Available in both fire-tube and water-tube designs, these systems are built to operate at pressures from 3 bar up to 50 bar, offering high efficiency and long-term durability.



2024 - 2025 / Australia
Biomass Fired Steam Boiler (Capacity: 8500 kg/hr - 10 Bar)

Designed & manufactured by ISIMEK in its own factory.
Our expert team delivers installation and commissioning
services for projects worldwide.



BIOMASS FIRED STEAM BOILER



BOILER SYSTEM COMPONENTS

Biomass steam boiler:

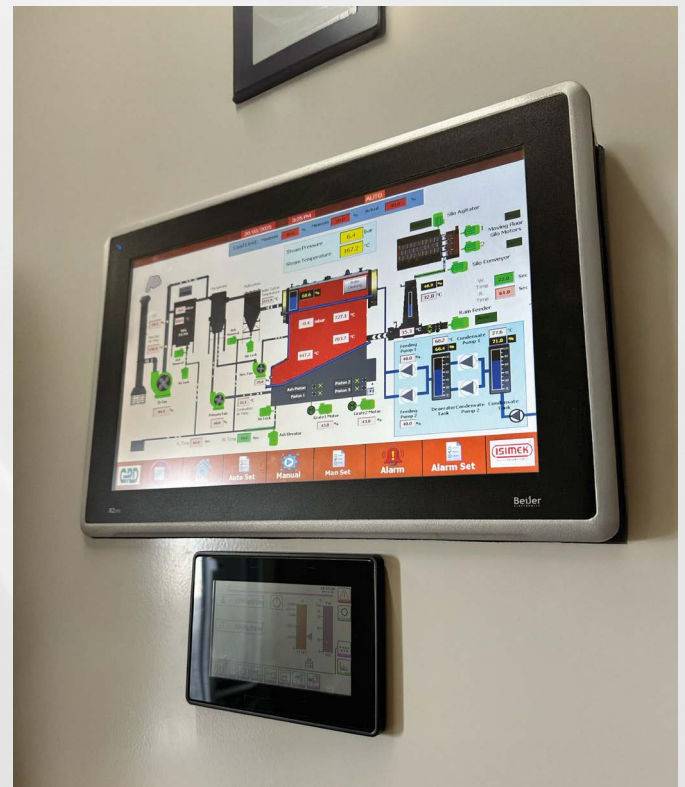
- Concrete Moving Floor Silo / Steel Moving Floor Silo
- Belt Conveyor / Chain Elevator
- Bunker feeding with auger / Ram feeder
- Moving Grate, Combustion Chamber
- Smoke Tube Boiler / Water Tube Boiler
- Multi-Cyclone Filter
- Recuperator / Economizer
- Chimney and Chimney Fan
- Deaerator Tank / Condensate Tank
- Bag Filter / Cataflex NOx/Dioxin Filter (optional for RDF/plastic fuels)
- Electrical Control Panel, PLC Remote Control and SCADA System

Product Features & Key Advantages:

- High efficiency: up to 90%
- Automatic cleaning system reduces maintenance
- Fully automated or manual operation
- P235 GH / P355 GH quality carbon steel
- Designed to meet European standards
- Environmentally friendly with low emission values

2024 - 2025 / Australia
Biomass Fired Steam Boiler
(Capacity: 5000 kg/hr - 5 Bar)







2022 - 2023 / Romania
Biomass Fired Steam Boiler (Capacity: 20 TPH - 16 Bar)

ISIMEK MAKİNA KAZAN İNŞAAT SAN. VE TİC. LTD. ŞTİ.

SOLAR ENERGY

ISIMEK powers its entire facility with solar energy, reinforcing its commitment to sustainable and eco-friendly manufacturing.

**Intelligence in Design, Power in Production,
Trust in the World.**

ISIMEK offers maximum efficiency at every stage with its innovative design approach. ISIMEK, which adopts global quality standards in all processes from project planning to assembly, from commissioning to after-sales support, is a preferred solution partner worldwide.

APPLICATIONS

- Wood and forest industry •
- Paper, cardboard, and packaging plants •
- Textile, furniture, sugar, food & beverage sectors •
- Soap Industry •
- Olive oil, palm mill, eucalyptus oil, and sunflower oil refineries •



+90 312 815 56 07 +90 312 815 56 10 export@isimek.com.tr www.isimek.com.tr

Saray Mah. Aksoy Cad. No: 34 K.Kazan 06980 **Ankara / TÜRKİYE**