



INDUSTRIAL BIOMASS BOILERS

8 - 25 MW_{th} | 1 - 10 MW_e

EMPOWERING SUSTAINABILITY AMBITIONS

www.host-bioenergy.com

YOUR SOLUTION FOR RENEWABLE BIOMASS ENERGY

MULTIFUEL CAPABILITY

LOWEST EMISSIONS

HIGH (ELECTRICAL) EFFICIENCY

ROBUST & LONG LIFETIME

OPTIMAL COMBUSTION TECHNOLOGY

FUTURE-PROOF ENGINEERED

HoSt industrial biomass & waste-fired boilers are available in a wide range of configuration options in the capacity of 8 - 25 MWth and 1 – 10 MWe for the production of steam, hot water, and electricity suitable for various industrial processes and applications.

Thanks to smart engineering, high efficiency is reached, a long lifetime is guaranteed, and maintenance stops and costs are reduced to a minimum. HoSt offers turn-key standardized solutions (EP/EPC).



TECHNICAL SPECIFICATIONS

- Thermal capacity: 8 - 25 MWth
- Power: 1 - 10 MWe
- Feedstock size: Up to 30 cm
- Feedstock ash content: Up to 25%
- Pressure: 6 - 90 bara
- Temperature: 60 - 480 °C
- Load range: 30% - 100%
- Availability: >8300h/year
- Efficiency: 88% - 93%
(up to 120% with a flue gas condenser)



FUELS

Wood (waste) / RDF / Other solid biomass & waste



END PRODUCT

Steam, hot water, electricity, CO₂



SERVICES

Turn-key supply: Engineering / Installation / Commissioning / 24-7 Service & Maintenance



APPLICATIONS

Sawmills / Pellet mills / Cardboard & Paper mills / Greenhouses / District heating / Process industry / Food & Beverage industry / etc.

CONFIGURATION OPTIONS

FUEL STORAGE / INFEEDING

Storage: hydraulic moving floor / silo or bunker with automatic overhead crane.

Infeeding: hydraulic push infeder / screws.

BOILER

Water tube steam boiler / Fire tube steam boiler. Both with soot blowers for online cleaning that ensures high availability.

TURBINE

Single stage steam turbine / Multistage steam turbine / Controlled extraction / Back-pressure / Condensing turbine.

FLUE GAS CLEANING

Bag house filter (with optional additive injection system) / ESP / Wet scrubber / CEMS / Sodium bicarbonate injection (BICAR) / Lime injection / Activated carbon (AC) injection / DeNO_x with SNCR (urea/ammonia injection) and/or with SCR / 2 sec. residence time above 850 °C / WID/IED/BREF/ BImSchV 17 / 44 compliant.

