Biofuels
- Wood chips, straw and wood pellets

Fully automatic heating plants

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Firing technology for biofuels

Combustion techniques
Firing technology for biofuels is significantly more complicated than equivalent technologies for natural gas or oil-fired systems.

To use wood pellets, wood chips and straw as environmentally friendly alternative fuels, it is crucial to achieve effective and total fuel combustion.

At the same time, the system must be extremely energy efficient, and it is important that fuel combustion does not pollute the surrounding environment.

Linka
Linka has developed heating plants for use with biofuels since 1975, when the oil crisis and rising energy costs created a market for alternative fuels.

Down the years, we have acquired an in-depth knowledge and experience in our field which we are continuously looking to extend.

We have built more than 2500 fully automatic heating plants – from small agricultural installations to large district heating plants.

Linka Maskinfabrik A/S
- Founded in 1975
- 31 employees
- Products: Fully automatic heating and steam production plants
- Customers: Institutions, manufacturing plants, agriculture, estates and district heating plants
- Geographical market: Europe
Linka - operational philosophy:

- Maximal fuel utilization
- Low energy consumption
- Minimal maintenance costs
- Fault-free operation
- Automatic ash removal
- No fireproof materials requiring servicing
- No operation interruptions caused by foreign elements in the fuel
- Separate primary and secondary combustion chambers
- Automatic $O_2$-regulated primary and secondary air
Wood chips, straw
- Linka’s boilers ensure effective combustion...
Easy to clean
Large doors on the front of the boiler facilitate quick and easy cleaning of the fire box and flue gas pipes.

Unique and flexible
The hearth is specially developed for use with biofuels, but if energy policies should change, Linka boilers can be fitted with an oil or gas burner and still achieve the same high levels of efficiency.

Optimal operation and efficiency
Linka boilers are constructed as traditional 3-pass boilers with a large fire box and horizontal flue gas pipes.

The large water capacity of Linka boilers ensures good heat accumulation, which combined with the large heating surface optimises operation and reduces the number of boiler starts.

The large convection section with its smooth boiler flues ensures effective cooling of the flue gases, resulting in efficiency levels of up to 93%.

Quality standards
The boilers meet the following standards: AT (Denmark), SA (Sweden) and TÜV (Germany). The boilers are manufactured from high-quality steel from Europe’s leading steel works.

or wood pellets
District heating plants
Fuel handling
A chain is only as strong as its weakest link, and the store to boiler transport system is no exception. If the transport system breaks down, then the plant shuts down.

Linka was one of the first companies to manufacture biofuel transport systems, and the experience and expertise we have acquired have helped us build the transport systems we use today.

Ash removal
The automatic ash removal function must be reliable, and Linka's breadth of experience with ash removal systems guarantees a minimum of operational maintenance.

Control and monitoring
The control, regulation and monitoring system monitors and controls the entire process, from fuel transport to flue gas emission and distribution of heat to the consumer.
Mobile heating

Steam production

In recent years, Linka has begun to supply fully automatic steam production plants.

Industries with high levels of steam consumption, such as laundries, dairies and foodstuff manufacturers, have been able to enjoy financial and environmental benefits from using biofuels for steam production.