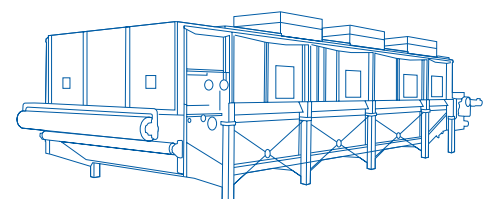




**FABRIC
BELT
DRIER**



**MODULAR PLANT SYSTEM
FOR DRYING OF BIOMASS,
WOOD SHAVINGS, WOOD
CHIPS AND MANY MORE ...**



KAHL FABRIC BELT DRIER

A distinctive feature of the KAHL fabric belt drier is the special, tightly woven plastic fabric belt which fulfils two functions: Transport of the product to be dried and filtration of the exhaust air to ensure that the legal limit value of the dust loading in the exhaust air is not exceeded. Discontinuous automatic cleaning of the belt avoids clogging of the belt openings with wood particles.

Measurements by independent institutions have confirmed the observation of the limit value. The

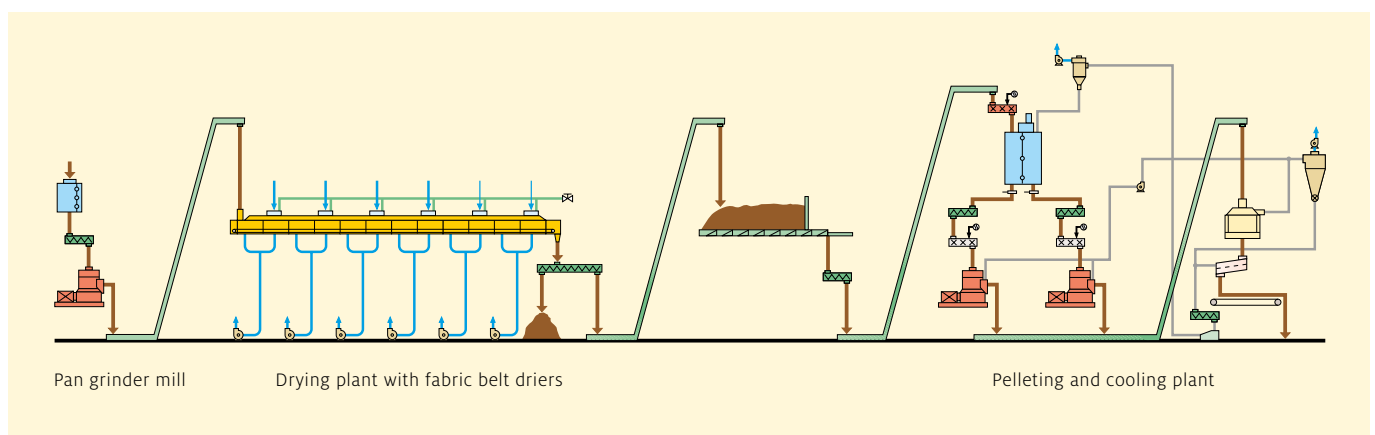
average value was less than half the admissible value. Requiring very low inlet air temperatures of less than 120°C, the drier is particularly suitable to be operated with waste heat from cogeneration. Another advantage is the low concentration of volatile organic compounds (VOCs) in the exhaust air resulting in very low odour emissions.

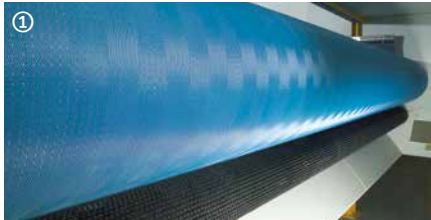
The product supply system allows the supply of a uniform layer of product to be dried, even if the input material and the throughput capacities vary

significantly. The product is turned over in the drier by means of specially adapted devices so that a very uniform final moisture content of the product is obtained.

The on-line measurement of the product moisture ensures that the drier is constantly operated with an optimum energy consumption and that the residual moisture is kept at a defined value. Belt widths of 4 m or 6 m are possible. The efficient belt lengths available for drying are 11 m to 45 m.

PLANT WITH KAHL PAN GRINDER MILL AND FABRIC BELT DRIER (WOOD PELLETING)





- 1 Fabric belt
- 2 Product supply unit
- 3 Drive motors for the product supply system
- 4 Belt control unit
- 5 Tension station
- 6 Product turn-over device
- 7 Brush sealing



ADVANTAGES

- Convective, gentle drying by means of hot air
- Modular plant system
- Individual technical design for each product, the desired throughput and the available or desired heat source, for example hot water or saturated steam
- Use of a special plastic fabric belt which simultaneously serves as an exhaust air filter
- Intelligent control for optimum and economic drying
- Monitoring of the relevant operating and process parameters
- Automatic operation
- Optional: Comprehensive safety system
- Easy to maintain construction

KAHL DRIERS/COOLERS – SUCCESSFUL ALL OVER THE WORLD

More than 1,000 KAHL belt coolers/driers with traditional chain drives are now in operation in various industries all over the world.

KAHL belt driers/coolers are appropriate for different types of products. Examples: Pellets, extruded products, Expandat®, agglomerates and pasty products.





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