

KUVO belt dryer

The KUVO belt dryer is designed to remove water efficiently by evaporating moisture from wet biomass. Its proven drying technology ensures the high dryness of the end material.

Dried biomass can be utilized for

- Gasification
- Pelletizing
- Power boilers

Utilizing waste for energy

The KUVO belt dryer is suitable for drying biomass like bark, wood chips, sawdust, bagasse etc. After drying, this waste material is ready to be used as biomass fuel.

KUVO features evaporation of between 2 to 25 t water per hour and allows continuous dehydration of up to 8 % residual moisture. Several sources of energy such as waste heat (water), low-pressure steam or hot air can be used - no primary energy is needed.

An even distribution of material and controlled air flow guarantee uniform residual moisture in the material.



Reliable technology

The reliable technology of the KUVO belt dryer is proven, easy to maintain and easy to handle. The belt dryer has a modular construction and is therefore easy to combine with other high-temperature drying processes.

Benefits

- Utilization of waste heat
- High availability
- Non-destructive drying
- Low emissions
- Automatic operation

-
- Bark
 - Wood chips
 - Sawdust
 - Wood residues
 - Bagasse

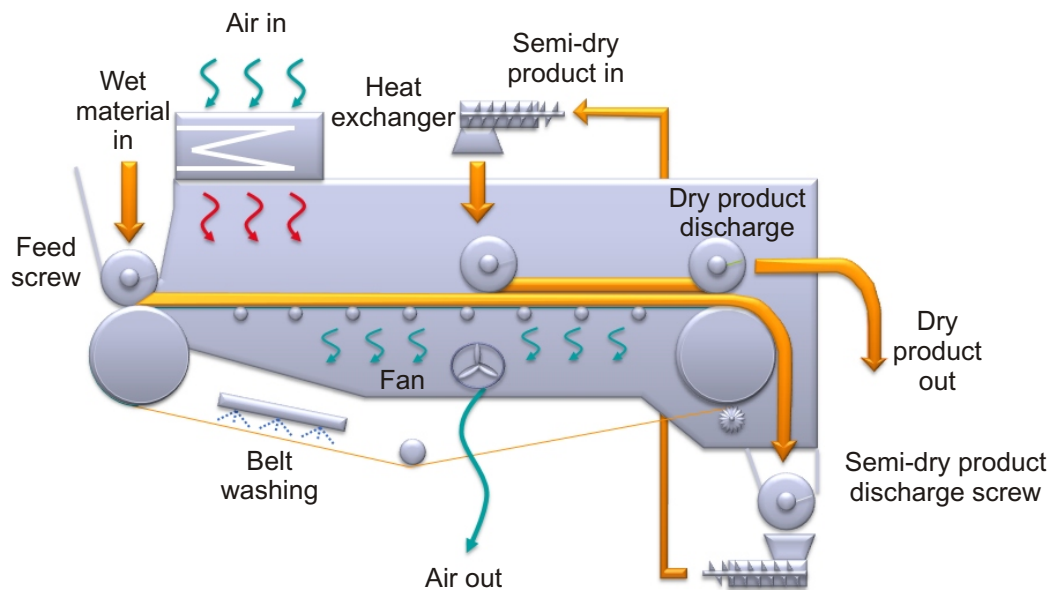
**KUVO
belt dryer**

**Biomass
fuel**

Process principle

The wet material is distributed by a special feed system onto a belt in an even layer. The heated drying gas flows through the material layer and the drying belt. The hot drying gas is cooled and saturated by absorbing water from the material. The now moist drying gas is vented at the stack(s) via one or several fans, depending on the plant size. At the belt end, the material layer is discharged from the dryer.

With the speed adjustment of the exhaust fan according to the energy available, the dryer is always run with the least possible power consumption and at a low temperature. For bigger drying capacities several dryers are needed, which can be installed one on top of the other to save floor space.



KUVU belt dryer

Typical materials

- Bark
- Wood chips
- Sawdust
- Wood residues
- Bagasse

Dryer dimensions

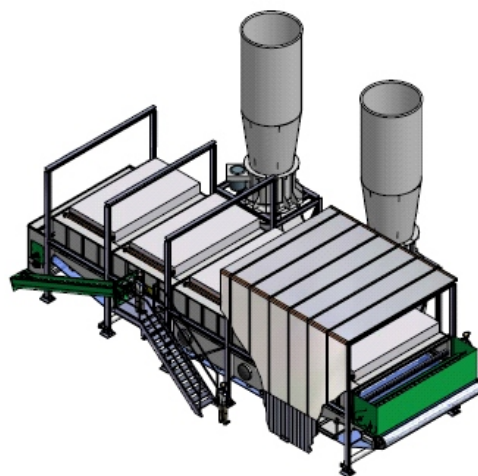
- Belt width 3-6 m
- Length 15-60 m
- Area 40-310 m²

Capacity

- Water evaporation 2-25 t / hour
- Min residual moisture 8%

Heat sources

- Low-pressure steam
- Residual gas
- Hot water
- Hot air



For more information, please contact your local Metso office.
 e-mail: wood.handling@metso.com
www.metso.com/pulpandpaper

Specifications in this document are subject to change without notice.
 KUVU is the trademark of the SWISS COMBI belt dryer. Metso and SWISS COMBI
 -W. Kunz dryTec AG have entered into a license agreement for the KUVU belt dryer.

