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HUBER TECHNOLOGY
WASTE WATER Solutions

HUBER Belt Dryer BT for sewage sludge drying

Create value from waste!

More information, downloads and current news

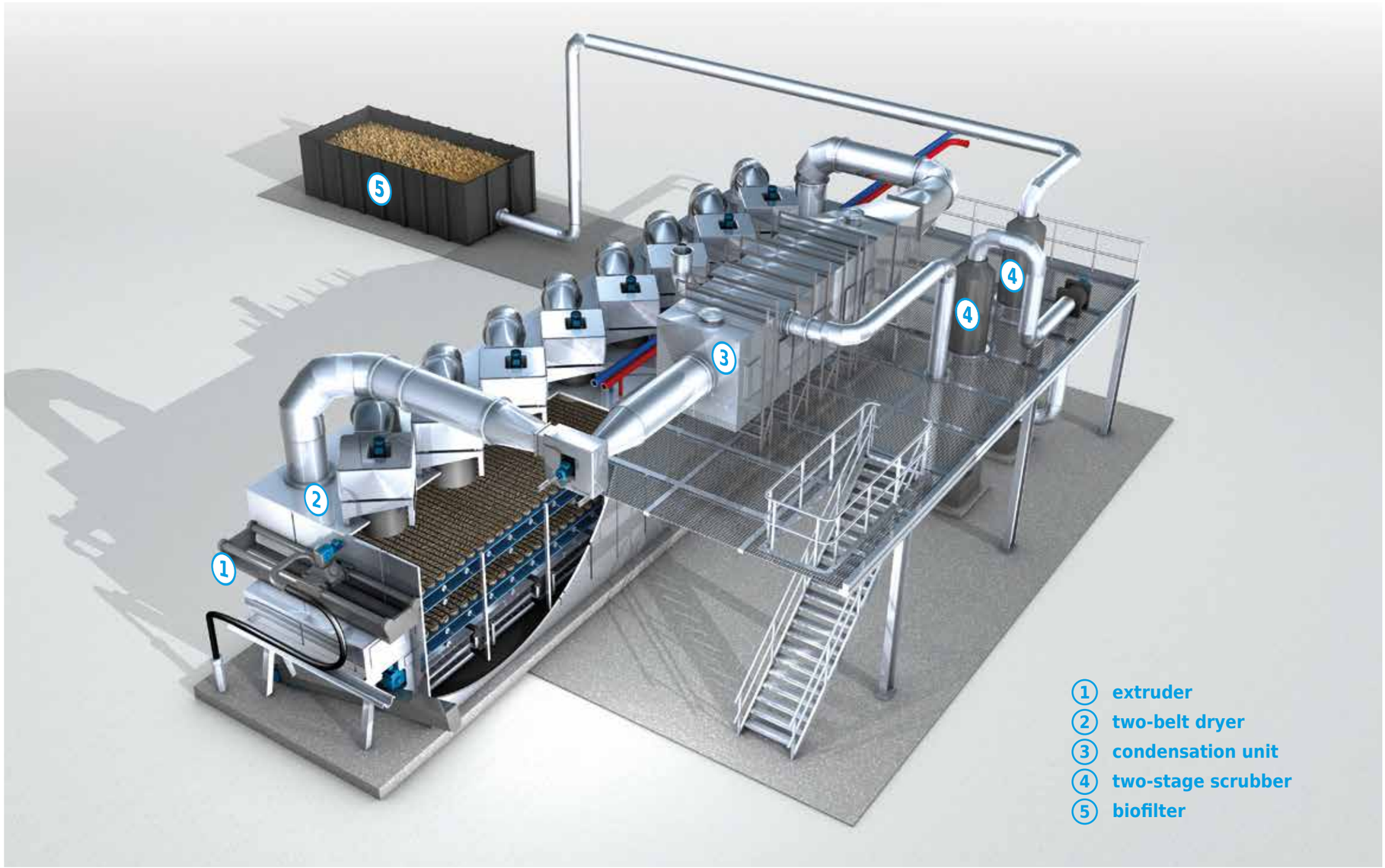
www.huber.de

Sludge bunker and dry material silo.

Sludge bunker and pump.

Sludge feeding with HUBER extruder unit.

Condensation stage with heat extraction and fully automatic heat exchanger cleaning.



The HUBER Belt Dryer BT produces a dry, low-dust, disinfected granular biosolids product which is easy and safe to handle, uses the exhaust heat on site and reduces disposal costs.

Head piece with integrated automatic belt cleaning.

Two stage scrubber for odor control.

Sewage sludge is the „waste product“ that is generated on sewage treatment plants. Dry your sewage sludge to reduce disposal costs and use your „waste“ as a fuel or fertiliser resource!

The HUBER Belt Dryer BT makes waste a valuable resource ...

... in the most efficient way ...

The unique HUBER HELIX air flow system ensures that only the minimum required amount of drying air is blown through the dryer by the ventilators. In combination with the CFD-optimised dryer geometry, an extremely low electrical energy demand is achieved with this air flow system.

The closed process air circulation system with integrated condensation stage reduces the exhaust air volume flow to 5,000 m^3/h maximum and contributes to keeping down operating costs.

... in the most reliable way ...

The HUBER Belt Dryer BT is designed for fully automatic 24/7 operation. All its core components are robust and “made in Germany”.

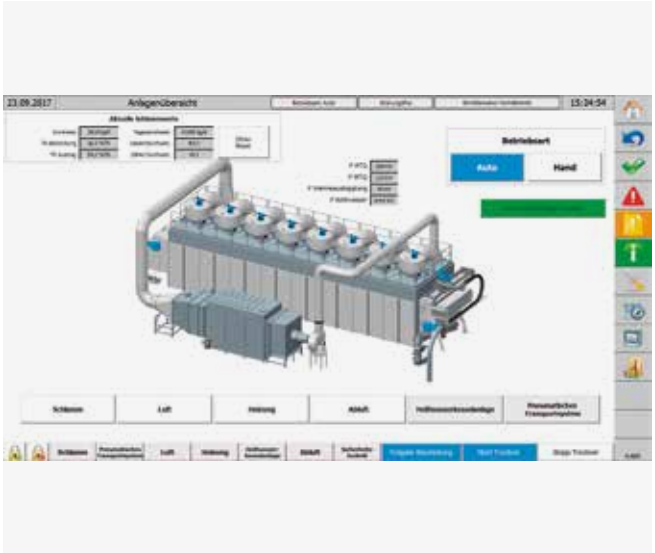
Integrated automatic belt cleaning and the HUBER extruder guarantee a reliable and failure-free dryer operation. High safety standards and low drying temperatures of 70 °C to 150 °C make the HUBER Belt Dryer BT so safe that all ATEX requirements are reliably met.

... in the most comfortable way ...

The electrical control system of the HUBER Belt Dryer BT responds fully automatically to external influences that could impair the complex drying process, eliminating the need for intervention by the operating staff.

The dryer can easily be cleaned and maintained by a single person.

Optional telemaintenance solutions are additionally available to enable system operators to monitor their drying plant from anywhere, or even control and operate it if required via an end device, such as PC, mobile phone or tablet PC.



... in the most sustainable way ...

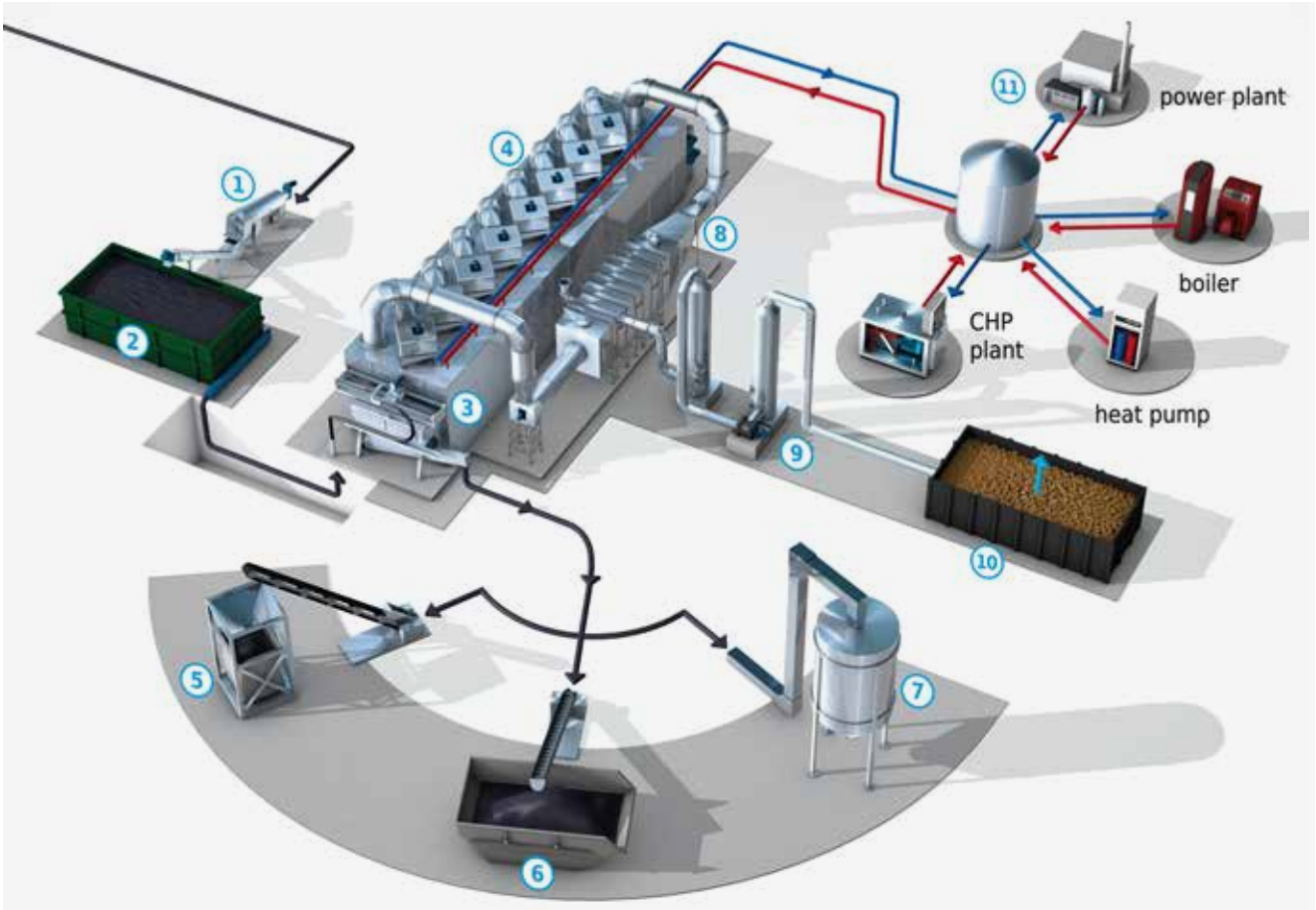
Consequent use of exhaust heat from processes, such as power generation from sewage gas or biogas, reduces operating costs and CO_2 emissions. Optional heat recovery from the dryer (to heat buildings or digesters) also contributes to the sustainable protection of the environment.

The dry granulate produced by the dryer can be used both as fuel and fertilizer.

... in the most clever way ...

The HUBER Belt Dryer BT represents state-of-the-art technology of sewage sludge drying. Maximum energy efficiency, full automation and flexible use of exhaust heat guarantee low operating costs and easy system operation. The dryer can also easily be integrated into existing installations and process plants. Various components of peripheral plant equipment ensure maximum flexibility and can be selected to meet specific requirements.

Multi-line design of the HUBER Belt Dryer BT for large projects.



1. screw press for sludge dewatering
2. sludge bunker with thick sludge pumps
3. extruder
4. Belt Dryer
5. 6. 7. granulate discharge to big bags, open containers or silos
8. condensation unit
9. exhaust air scrubber
10. biofilter for exhaust air
11. flexible heat utilisation (e.g. waste heat from power/ CHP plant, voiler, heat pump)

HUBER offers you customised plant solutions. The HUBER Belt Dryer BT uses various waste heat sources and is therefore ideal to be integrated into existing processes.

Combined with HUBER dewatering systems (such as the HUBER Screw Press Q-PRESS®), the HUBER Belt Dryer BT offers the customer a reliable complete solution for perfectly tailored sludge treatment. The HUBER Belt Dryer BT has proven its reliability in many projects worldwide.

Technical data

Capacity:
0.3 to 6 t/h (> 6 t/h in multi-line installations)

Thermal energy demand:
0.8 to 0.85 kWh/kg water evaporation

Electric energy demand:
0.03 to 0.15 kWh/kg water evaporation

Dryer sizes:
4 to 30 m active dryer length

Energy sources:
Exhaust heat, steam, thermal oil, gas, oil, biogas, heat pump

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