



LOW-TEMPERATURE BELT DRYER



drying technology

for sludge drying

Everything from a single source - Made in Germany

Everything from a single source

From the first concept to the finished dryer, all competences are united at one location.

Specialisation in drying technology

stela has specialised in the complex field of drying technology in order to deliver the perfect solution for your project.

Head start through innovation

State-of-the-art technology and efficient manufacturing processes are the basis of stela's sustainable growth.

Research and development

In its in-house R&D lab, stela examines specific product properties for your project and thus determines individual drying curves.

Always at your side

From project idea and installation to commissioning and after sales services, the stela team is always at your side.

In-house production

Our high degree of in-house production of over 90% gives us full control over quality, time and costs. So you can rely on every single part of a stela dryer. At the same time, this allows us to guarantee a fast supply of spare parts.

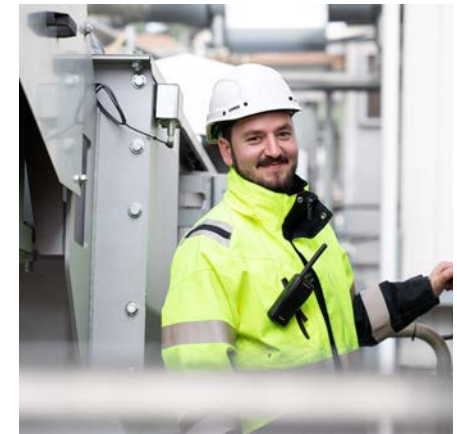
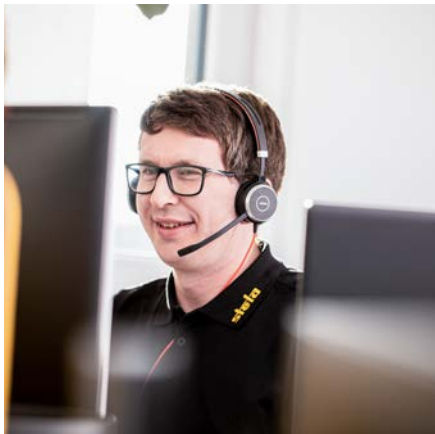
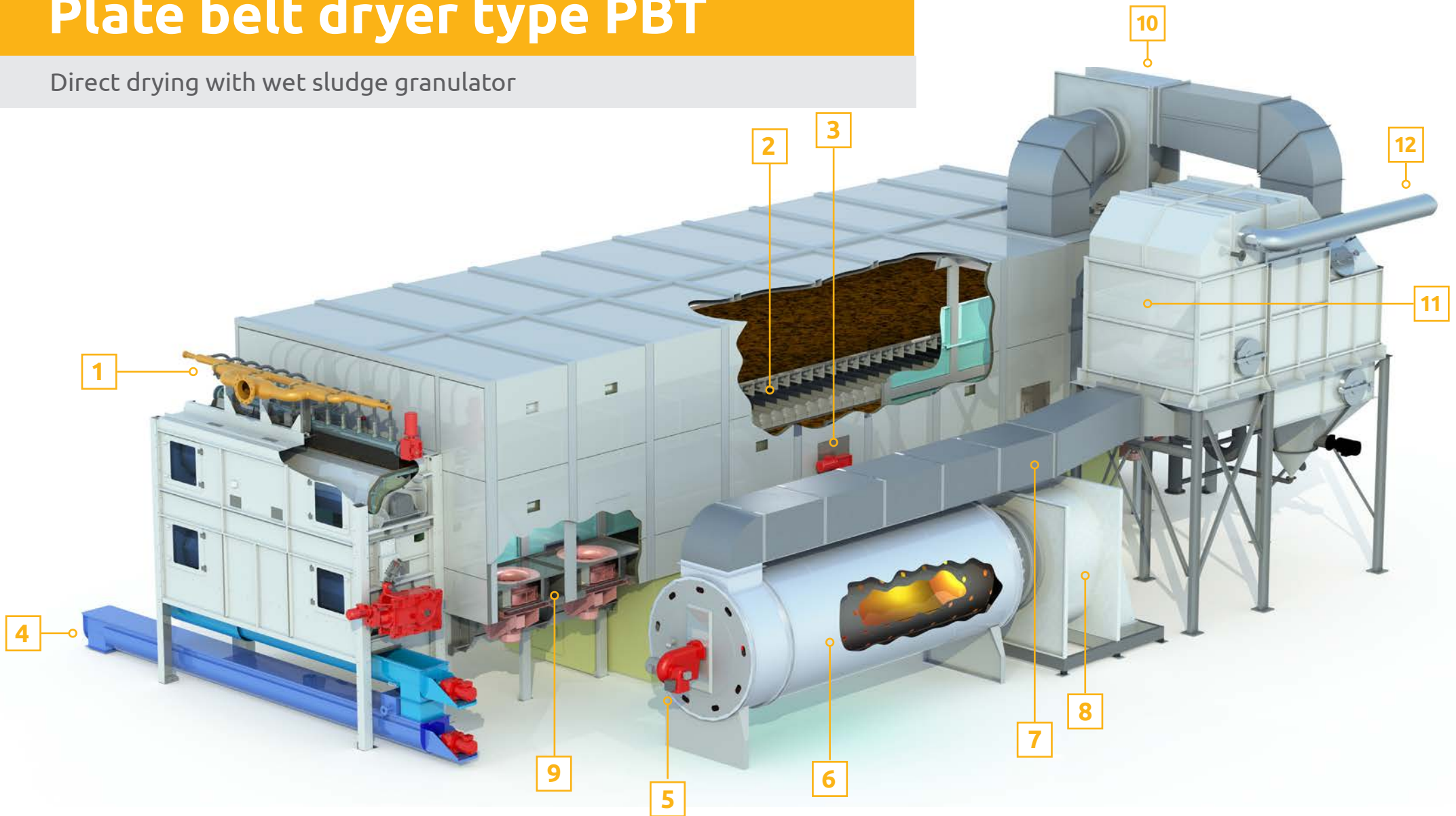


Plate belt dryer type PBT

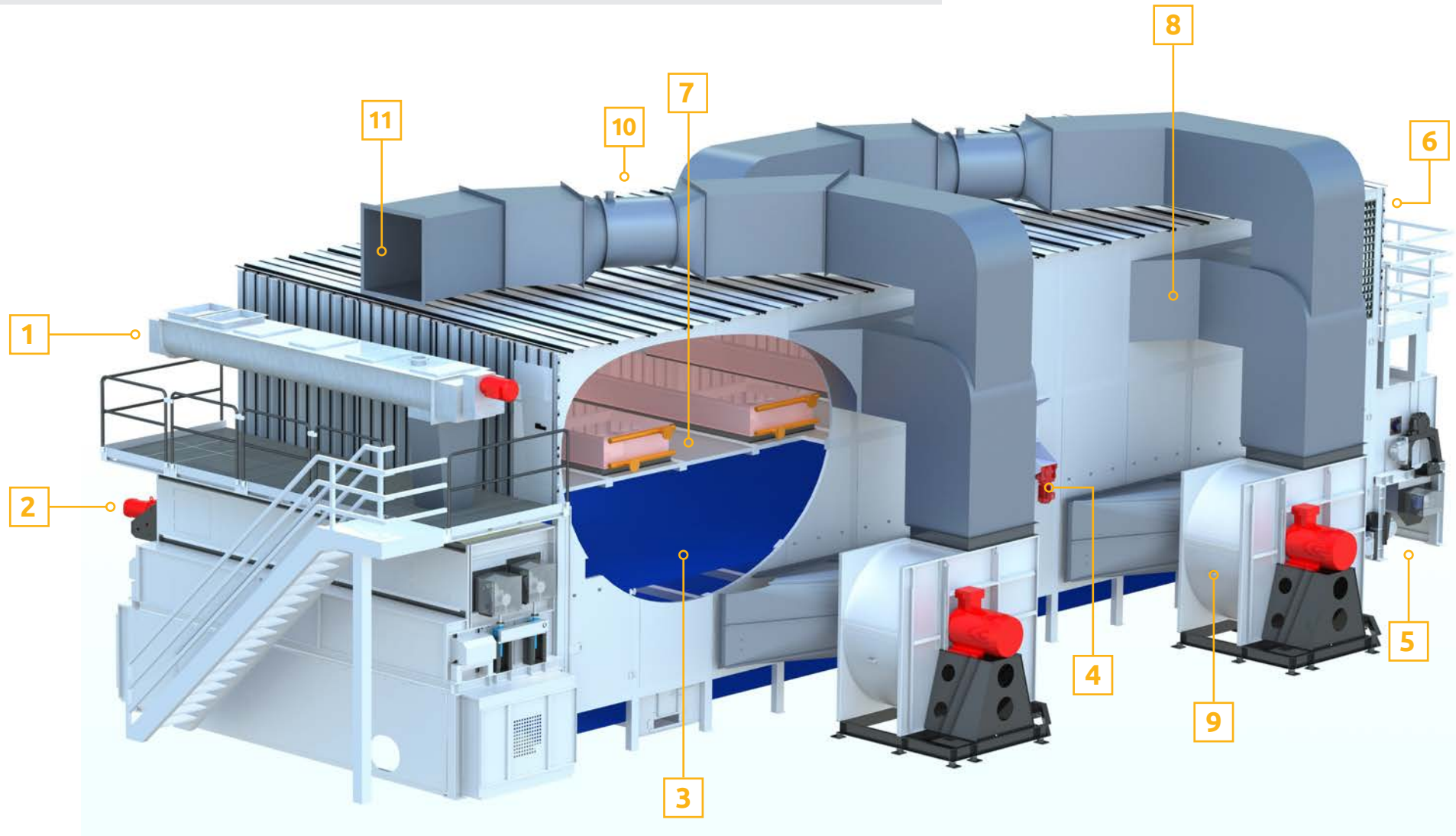
Direct drying with wet sludge granulator



1 = Granulating unit | 2 = Plate belt made of stainless steel (PTFE coated) | 3 = Turning unit | 4 = Water-cooled discharge screw | 5 = Fresh air | 6 = Hot air generation | 7 = Heat recovery | 8 = Hot air fan | 9 = Recirculation fans | 10 = Recu-fan | 11 = Spray condenser and scrubber | 12 = Exhaust air

Belt dryer type BTU

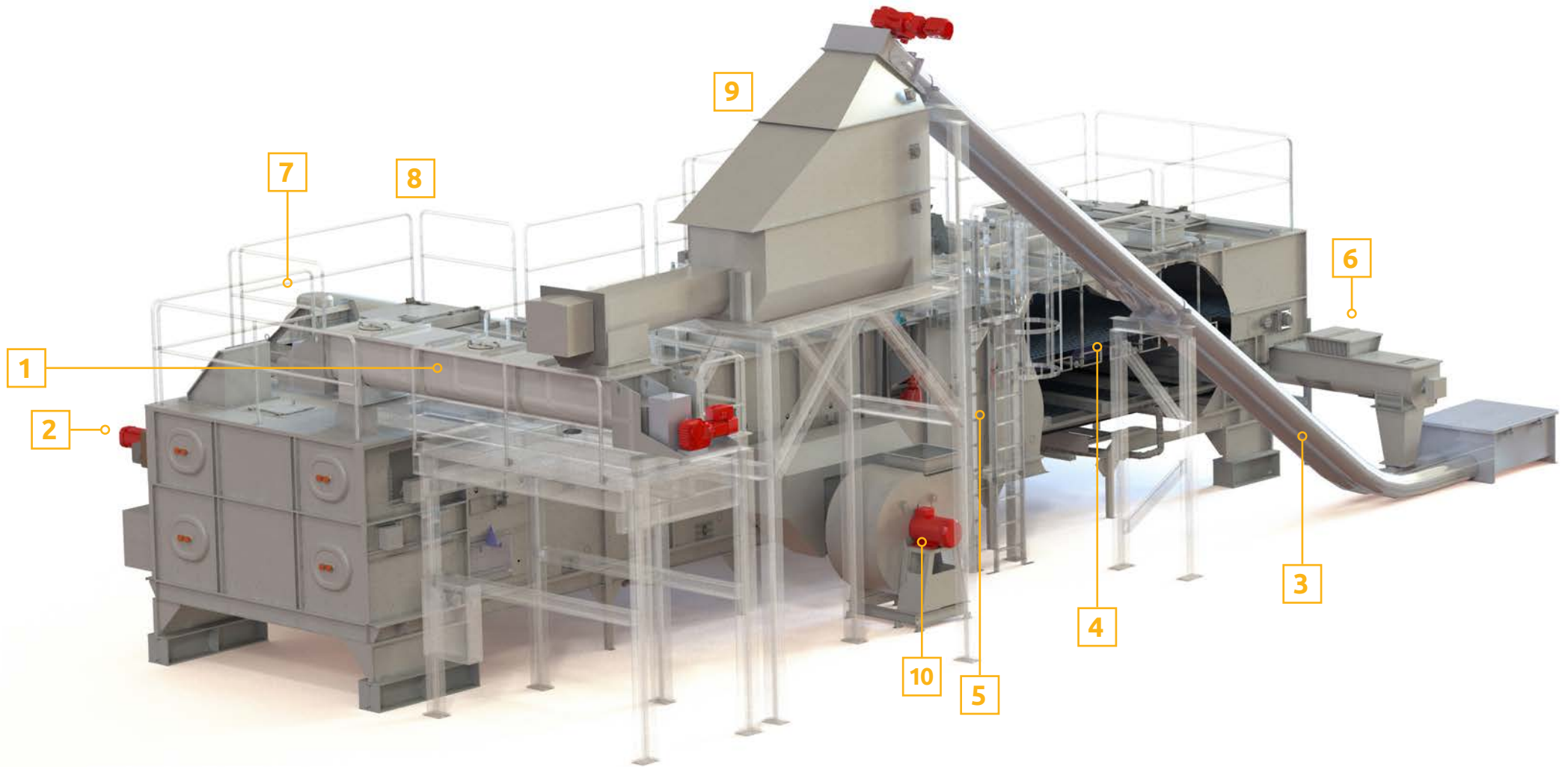
Indirect drying with dry material backmixing



1 = Mixer screw | 2 = Distribution screw | 3 = Plastic belt PE / PPS | 4 = Turning unit | 5 = Discharge screw | 6 = Fresh air | 7 = Heating register | 8 = Heat recovery | 9 = Recirculation fans | 10 = Exhaust air fan | 11 = Exhaust air

Belt dryer type BTLU

Direct drying with dry material backmixing

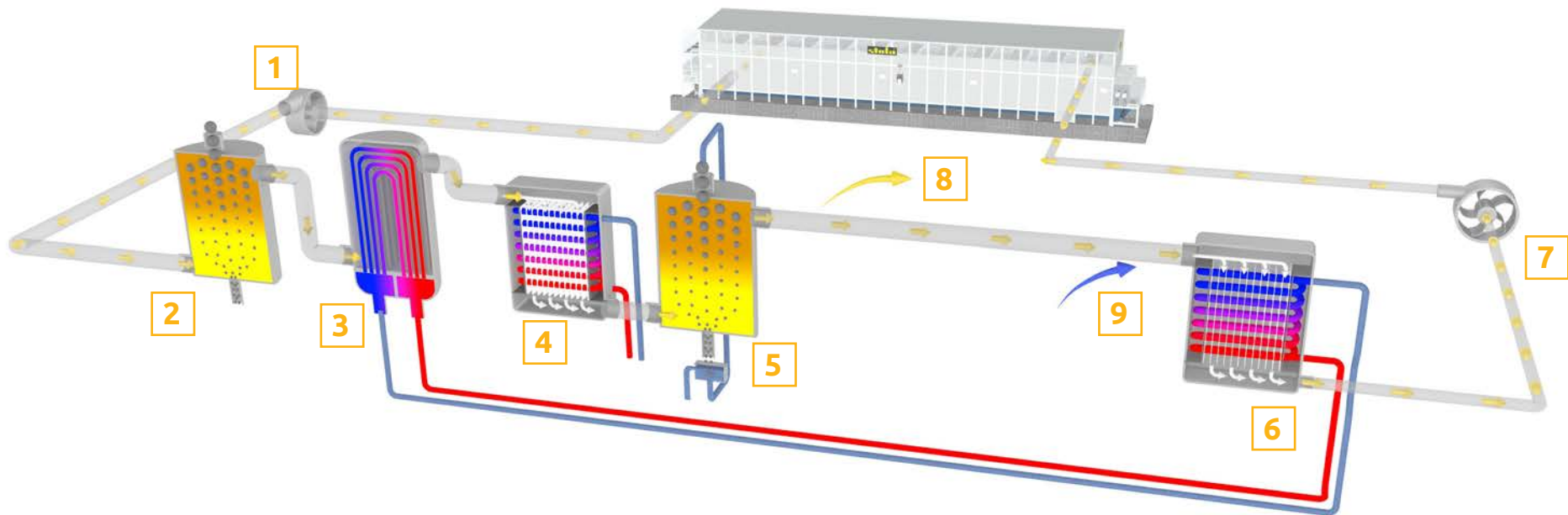


1 = Mixer screw | 2 = Distribution screw | 3 = Backmixing | 4 = Plastic belt PE / PPS | 5 = Turning unit |
6 = Discharge screw | 7 = Fresh air | 8 = Hot air | 9 = Circulating air | 10 = Exhaust air

Recu-unit

In the Recu-unit different heat recovery concepts can be realized depending on the requirements profile:

1. Recu-fan: Conveys the highly saturated exhaust air from the dryer into the Recu unit (heat recovery)
2. Quench / Spray-condenser: Saturates the exhaust air to optimize the heat transfer in the heat recovery unit and cleans the process air before
3. Economizer: Extracts thermal energy from the process air for use in the preheating coil (#6); e.g.: for preheating the fresh air
4. Heat recovery: Couples thermal energy from the process air for use in external processes (e.g. room heating)
5. Scrubber: Cools, dedusts and condenses the exhaust air; the exhaust air is prepared for subsequent cleaning
6. Pre-heater: Preheats the process air and/or fresh air
7. Hot air fan: Conveys the heated process air into the dryer



1 = Recu-fan | 2 = Quench / Spray-condenser | 3 = Economizer | 4 = Heat recovery | 5 = Scrubber | 6 = Pre-heater | 7 = Hot air fan | 8 = Exhaust air | 9 = Fresh air

References worldwide

Cogeneration plant, Bavaria, Germany



- **Type:** 2x BTU 1/6200-36-4/4
- **Product:** sewage sludge
- **Dryer output capacity:**
je 5,5 t/h from 25 % – 90 % DS

Waste water treatment plant, Constanta, Romania



- **Type:** BTU 1/6200-18
- **Product:** sewage sludge
- **Dryer output capacity:**
1,2 t/h from 25% – 90 % DS

Waste water treatment plant, Plock, Poland

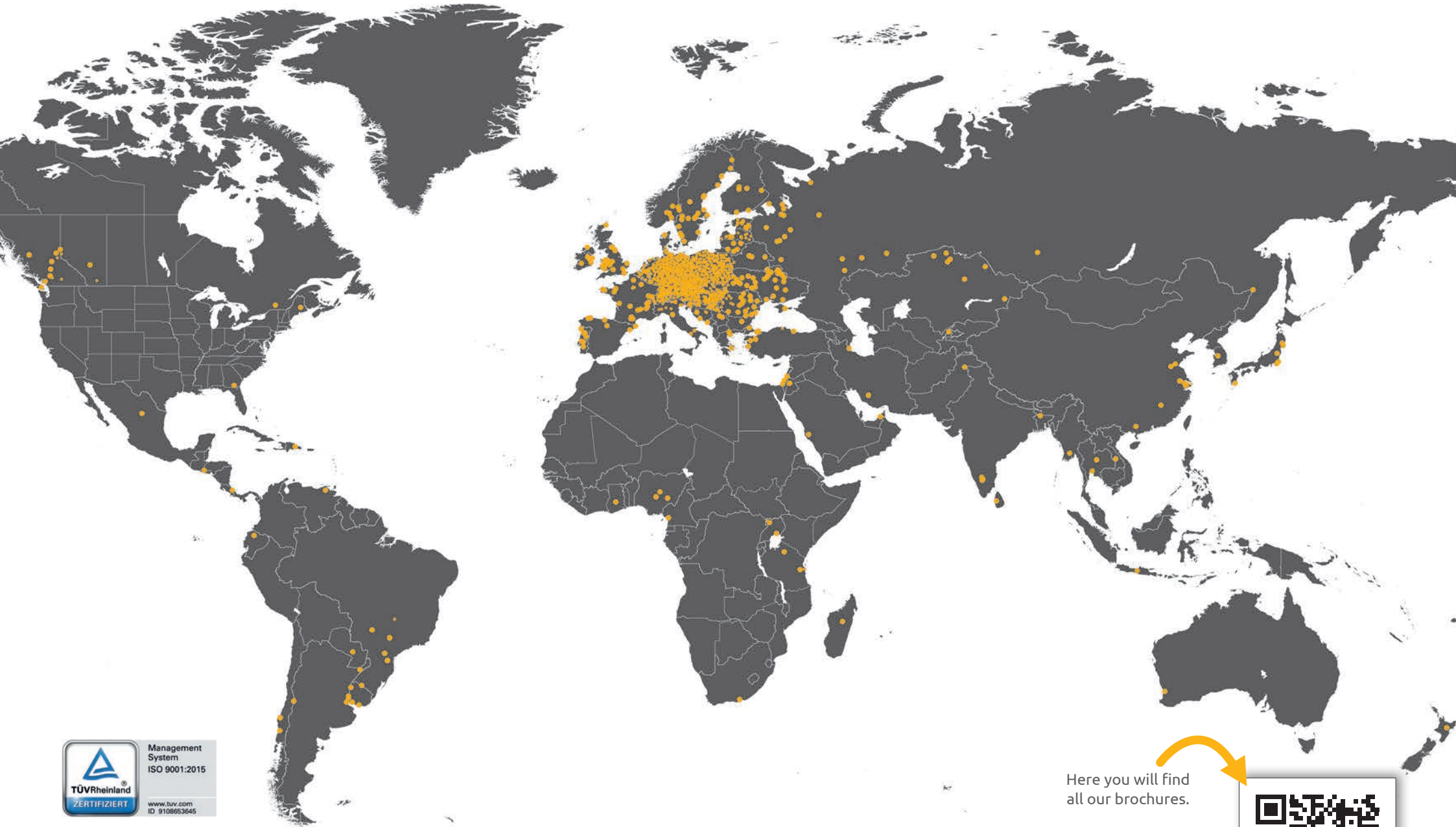


- **Type:** PBT 2/2500-14
- **Product:** sewage sludge
- **Dryer output capacity:**
0,6 t/h from 25 % – 90 % DS

Animal cadaver utilization, Denderleeuw, Belgium



- **Type:** BTLU 1/3000-25
- **Product:** digestate sludge
- **Dryer output capacity:**
0,5 t/h from 22 % – 85 % DS



Here you will find
all our brochures.



drying technology

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