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Комплексные решения HUBER для очистки органических отходов

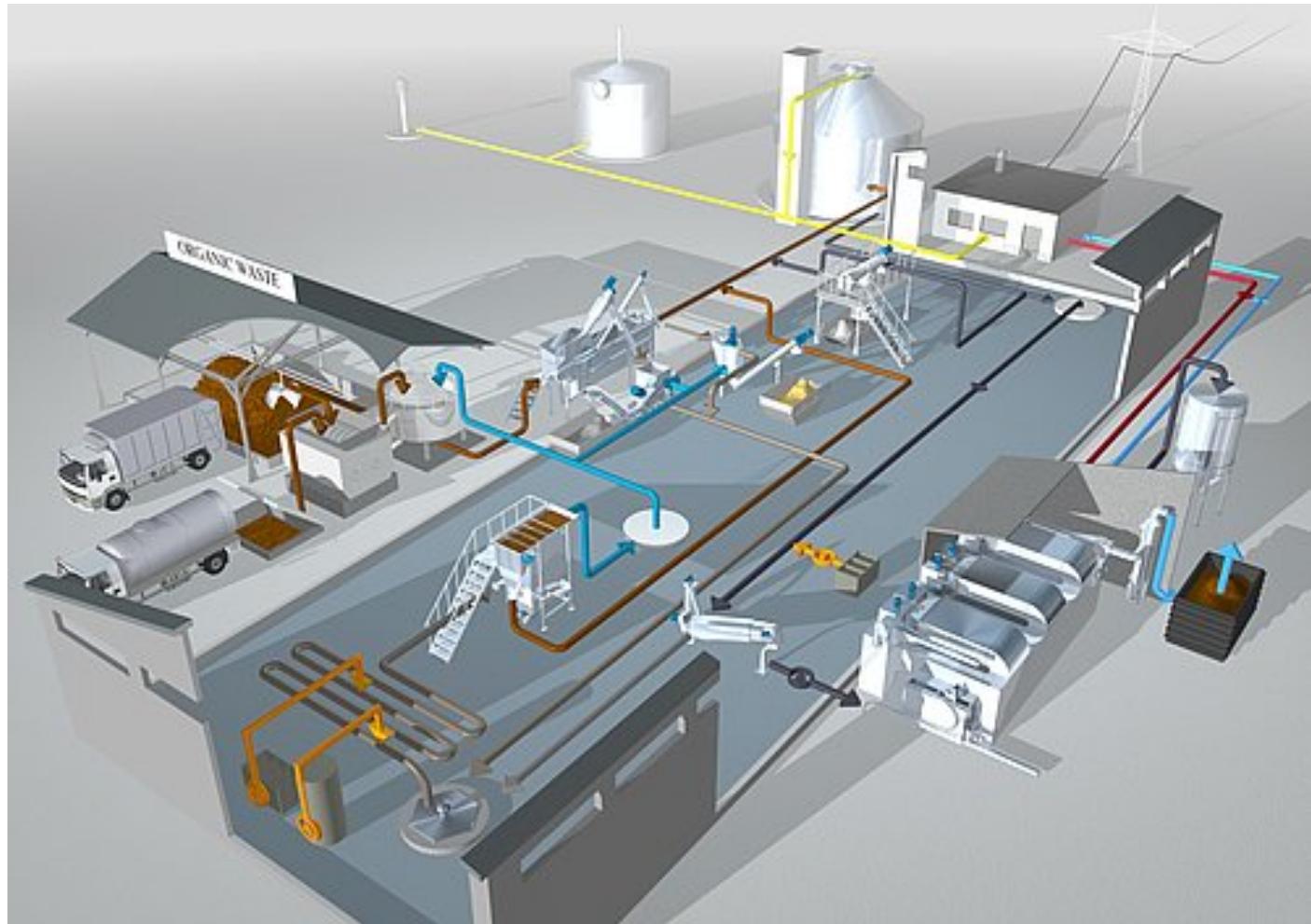
- **Обработка субстрата: Сепарация мех. загрязнений, Очистка от мех. загрязнений**
- **Очистка от остатков брожения**
- **Очистка отработанных/сточных вод после обработки органических отходов**

For dry aerobic treatment (composting) as well as for wet anaerobic treatment (fermentation with biogas generation) good mechanical pre-treatment of the supplied bio-waste is essential for the reliability and performance of the entire treatment plant. Most important is not only the choice of effective and efficient processes, but also their implementation with most robust and dependable machines; both are also important for the quality of the generated products.

We have developed solutions and products for processing organic waste and for further treatment of residues for their disposal or reuse:

- **Coarse material separation:** Separation and treatment by screening, washing, dewatering and compaction
- **Mineral treatment:** Removal and processing by washing and dewatering
- **Fermentation residue treatment:** Post-treatment for reuse by dewatering, compaction and eventually drying)
- **Process/wastewater treatment:** Wastewater treatment and process water recycling

КОНЦЕПЦИЯ



нажмите для увеличения и перехода к интерактивной картинке

ТЕХНОЛОГИЯ

Organic waste is supplied in solid or liquid form, the latter being mainly contents of grease trap. For their reception bunkers we supply customized [stainless steel covers](#).

The supplied waste is first ground in a mill and conveyed to a pulper whereby metals are separated. In the pulper they are soaked in hot process water, mixed, homogenized and disinfected.

The thus generated hot slurry is then mechanically pre-treated in a [HUBER Complete](#) Plant that is specifically adapted for this task. Debris and other disturbing solids (e.g. packing and wrapping materials) are removed with an integrated Fine Screen, and heavy mineral solids (e.g. stones, grit, sand and broken glass) are separated in an aerated Grit Chamber. The removed screenings are washed and compacted in our [Wash Press](#), the separated mineral solids are washed and dewatered in our [Grit Washer](#). The compacted screenings are incinerated as solid waste and the washed grit is reused as construction material. In order to remove even finer solids (e.g. hair and fibres), that could form disturbing scum layers in the fermenter, we provide a [HUBER Sludge Screen](#) (e.g. a Strainpress).

Within the fermenter the organic substrate is anaerobically degraded whereby biogas is produced. The biogas is used to generate power and heat in a cogeneration plant. The non-degradable fermentation residues are dewatered with our [Screw Press](#), and their amount can be further reduced in a [HUBER Sludge Drying Plant](#). We use the heat generated by cogeneration for the drying process. Dewatered or dried fermentation residues are either utilized energetically as fuel, or materially as fertilizer and for soil improvement.

Wastewater that has been generated in the various treatment processes is collected, chemically conditioned and treated in a [HUBER Dissolved Air Flotation Plant](#). The removed flootate sludge is returned into the pulper. The treated effluent is recycled as process water, it is either heated with heat exchangers and fed into the pulper, or used as wash water.

When we implement our solutions, we also provide our well-proven [HUBER stainless steel components](#), e.g. [Screw Conveyors](#), [Manhole Covers](#) and [Stairways, Platforms and Guardrails](#).

ПРИМЕРЫ ИЗ ПРАКТИКИ

- Heavy-medium separation and washing system installed and commissioned at BEZ Hochfranken
- New machine to dewater fermentation residues in dry fermentation

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 [проспект: Комплексные решения HUBER для очистки органических отходов](#) [pdf, 1.47 MB]

ФОТОГРАФИИ



Оборудование

- [HUBER Моечный пресс для отбросов WAP®](#)
- [HUBER Моечный пресс для отбросов WAP® SL](#)
- [HUBER Coanda Установка для удаления, промывки и обезвоживания песка RoSF4](#)
- [Пресс для фильтрации осадка HUBER STRAINPRESS®](#)
- [HUBER Шнековый пресс для обезвоживания осадка S-PRESS](#)
- [Сушка осадка](#)



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