

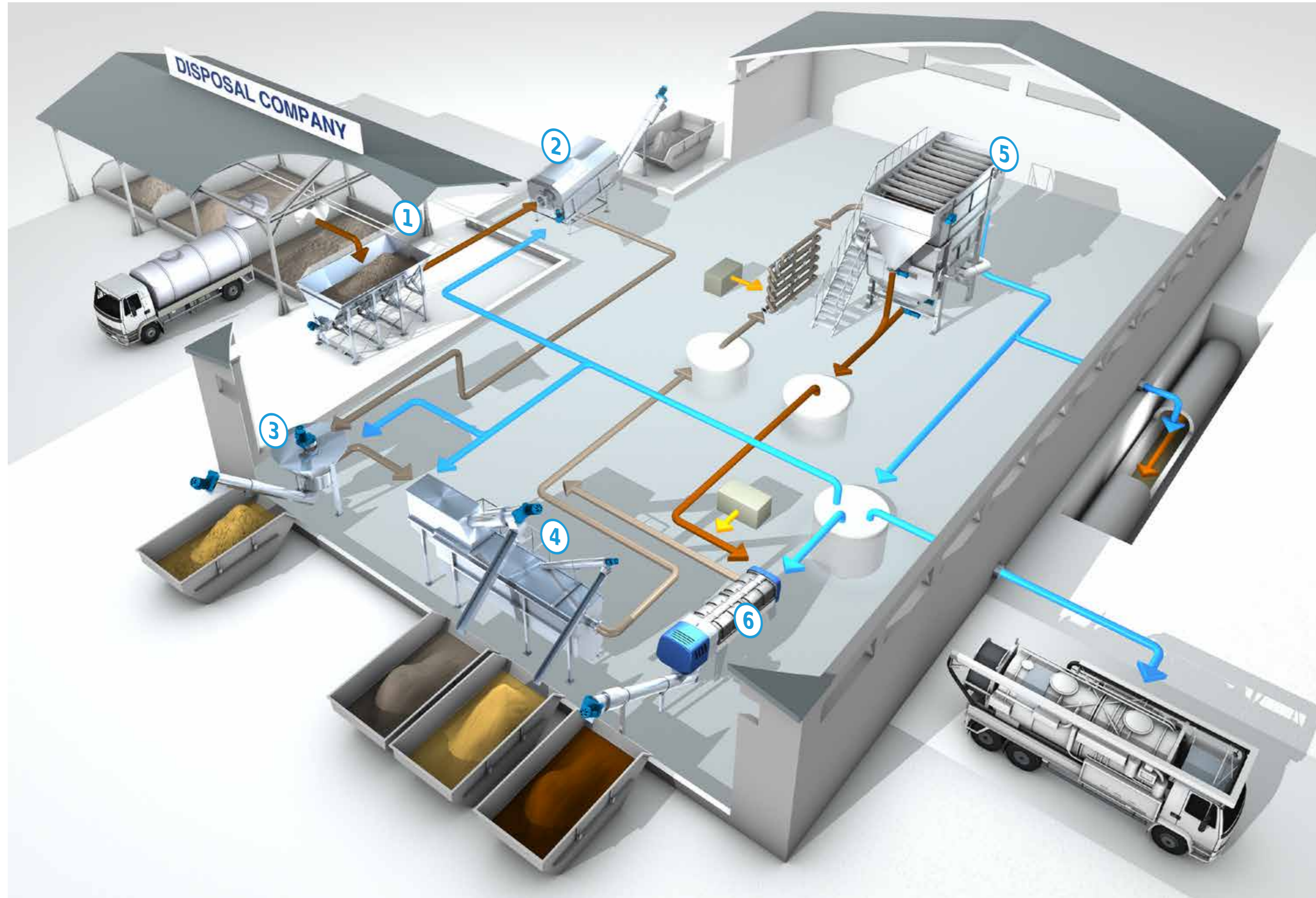
HUBER Solutions for Grit Treatment

Treatment of:

- ▶ Grit from sewer systems and wastewater treatment plants
- ▶ Road refuse, gully waste

More information,
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Material reception and acceptance

The first step of the process is the discharge of the liquid and solid phase into the acceptance tank of the HUBER Grit Dosing Screw RoSF7. The suction vessels can unload directly into the HUBER acceptance tank. Alternatively, supply can also be implemented using a crane system or wheel loader.



Separating and washing out coarse material

The HUBER Grit Dosing Screw RoSF7 integrated in the receiving bunker feeds the material fully automatically into the HUBER Wash Drum RoSF9. In the wash drum, the fraction < 10 mm is washed out by homogenisation.

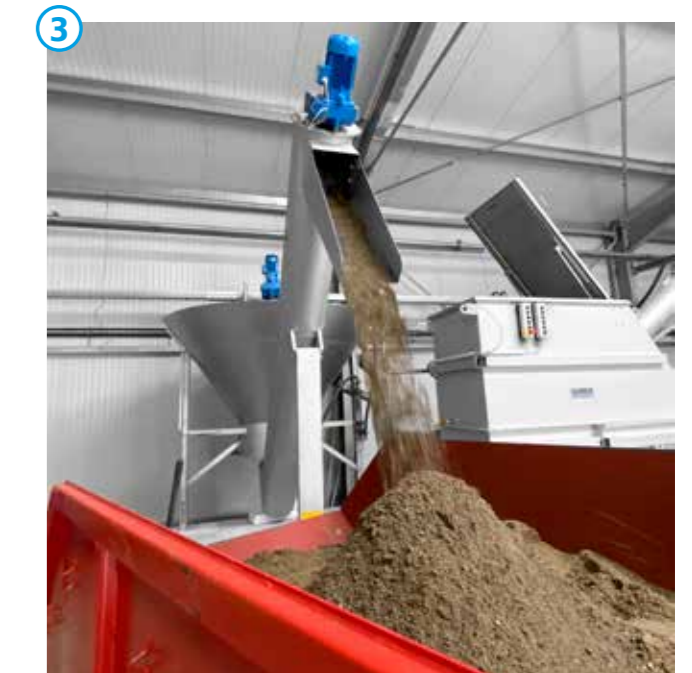
Coarse material > 10 mm is separated by the inclined screening drum, statically dewatered and discharged. In addition, a magnet is provided for the separation of metals. Coarse material and metals can be sold after pre-sorting.



Classifying, washing and dewatering sand

The HUBER Coanda Grit Washing Plant RoSF4 is used in the next process step. The solids contained in the mixture of sand, organic material and water (material < 10 mm) are then separated by diverting the flow combined with a reduction of the flow velocity, dependent upon the particle settling velocity, and sink down to the bottom area of the tank. There, organic and mineral components are separated by service water supplied from below.

The mineral material is dewatered statically using the discharge screw of the HUBER grit washing plant and can be sold to the construction industry at a profit, for example.



Organic and ultrafine grit separation

The effluent from the HUBER Coanda Grit Washing Plant is then treated in the multifunctional HUBER Complete Plant ROTAMAT® Ro5. Here, the organic and fine grit components are separated from the water stream in only one process step. Both the organic material and the fine grit < 0.2 mm are in turn dewatered and discharged by separate discharge screws. The fine grit is used, for example, in the recultivation or backfilling of opencast mining pits and can thus be sold at a profit, while the organic components can be used in biogas plants.



Sustainable internal water recycling

The quality of the effluent from the HUBER Complete Plant ROTAMAT® Ro5 is so good that it can be used directly as wash water supply for the HUBER Wash Drum RoSF9.

The remaining wastewater is treated to clear water by the HUBER Dissolved Air Flotation Plant HDF at the end of the process. This clear water is reused as internal process water for the Grit Washer and the Complete Plant. In addition, the clear water can be used to refuel the suction vessels.



Process sludge dewatering

The HUBER Screw Press Q-PRESS® dewateres the flotatate sludge fully automatically and continuously, reducing disposal costs to a minimum.

The energy-efficient screw drive runs at low speed (< 1 rpm) and allows almost wear-free operation with optimum dewatering performance. The user-friendly and easy-to-maintain machine is compact and space-saving as well as vibration-free and virtually noiseless in operation. An innovative control system enables unattended operation even with fluctuating sludge properties.



Advantages of HUBER solutions for the waste disposal and recycling industry

Global...

- ▶ Global network through 22 subsidiaries, 32 representatives, 6 sales offices and other partners as well as cooperating engineering companies
- ▶ HUBER Global Service 24/7
- ▶ 5 production sites worldwide
- ▶ Highest stainless steel quality, acid-treated in a pickling bath

...and yet project-specific

- ▶ Comprehensive product portfolio as a basis for project-specific individual as well as turnkey system solutions

- ▶ Maximum flexibility due to the possibility of mobile container or frame construction
- ▶ Process reliability thanks to:
 - ▶ Analyses at the HUBER laboratory
 - ▶ Pilot plants for on-site analysis (transportable by Euro pallet)
 - ▶ Large-scale technical tests using demonstration units in containers

Please do not hesitate to contact us and we will find solutions!



Eerola (Finland).



Bollinger (Switzerland).



Hammerer (Germany).



Cridec (Switzerland).

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