



HUBER

Sludge Acceptance Solutions

Efficient system solutions and technologies for the treatment of septic sludges

- ▶ for any type of septic sludge
- ▶ reliable separation of all disturbing material
- ▶ dependable and reliable in operation

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The challenge – Our solution

HUBER provides complete systems and processes for septic sludge treatment. Our equipment, as proven during many years of experience, is especially suited for septic sludge treatment. Hundreds of HUBER plants for septic sludge treatment have been installed worldwide.

Septic sludge is typically delivered in tanker vehicles. Depending on the size of the WWTP, it may be pumped into a balancing tank from where it is continuously fed to the plant. Direct feeding without prior balancing is possible at larger plants. In any case, removal of coarse material, such as hygienic products, plastic material, etc., from the septic sludge is necessary. This cleaning is necessary to keep the load on the sewage treatment plant resulting from the introduced faecal sludge as low as possible. There are several requirements for good septic sludge treatment: This includes, for example:

- ▶ High capacity to minimise waiting time of tanker vehicles
- ▶ High separation efficiency to achieve excellent separation of non-degradable material
- ▶ Automation to minimise operator attendance
- ▶ Complete encasement to eliminate odour annoyance
- ▶ Reliable operation without impairment by grit and gravel
- ▶ Integrated screenings washing and compaction to produce screenings suitable for landfill and to reduce their weight and disposal costs



HUBER Sludge Acceptance Plant ROTAMAT® Ro3.1 with HUBER Fine Screen ROTAMAT® Ro1.

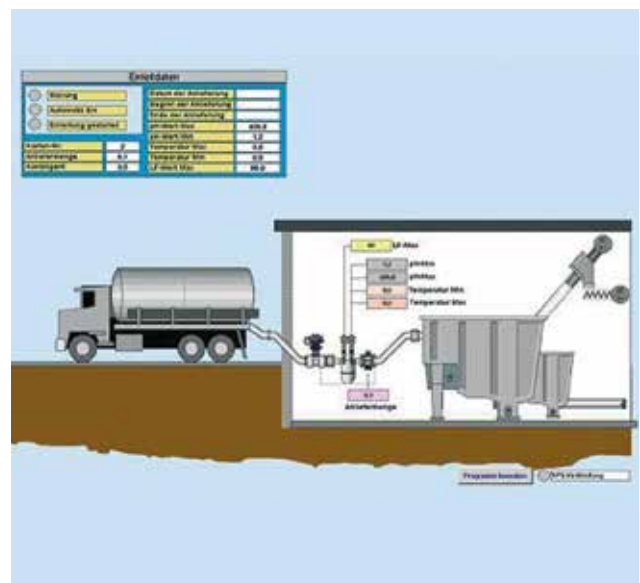
To meet these requirements HUBER developed special machines and plants that have proven their efficiency and reliability in hundreds of installations.

According to worksheet DWA-A 280, there are three options of septic sludge disposal on sewage treatment plants:

1. Introduction into the wastewater flow
2. Introduction into the sludge flow
3. Introduction partly into the wastewater, partly into the sludge flow

Identification and metering system for the septic sludge

Due to the steadily increasing requirements on personnel and equipment and the modernisation of technologies and software, systems with automatic software are being used at an ever-increasing rate. The automatic software facilitates the process of metering, data storage including invoicing. This complete system can fulfil various specific requirements and different tasks (depending on the medium quality), including infeed route, flow metering, sampling. The system simplifies many handling tasks in one process. Plants can be operated and started independently by the customer/supplier. The system is designed for data recording and storage (independent of the plant version).



Visualisation within the process control system.

The HUBER Sludge Acceptance Plant ROTAMAT® Ro3

The HUBER Sludge Acceptance Plant ROTAMAT® Ro3 is used for mechanical treatment of septic sludge. A HUBER Fine Screen ROTAMAT® Ro1 is installed in a tank for this cleaning. The septic sludge is fed into the tank and, as it flows through the Fine Screen, all coarse material is retained. A screw conveyor with integrated screenings press removes the screenings from the tank, reduces their volume and weight and drops them into a container or bagging device.

The entire cleaning process takes place in a closed system: No odour annoyance occurs outside. The screenings are additionally washed which makes them suitable for land-fill. The filtrate is blended into the wastewater for further treatment in the WWTP.

HUBER Sludge Acceptance Plant ROTAMAT® Ro3.1 with ROTAMAT® Fine Screen

A robust and efficient version that can achieve high throughput rates. This system has proven itself in practice in tough everyday operations and is the best-selling machine of its kind. Its superior design and engineering guarantee the most dependable level of operation – day after day, year after year.

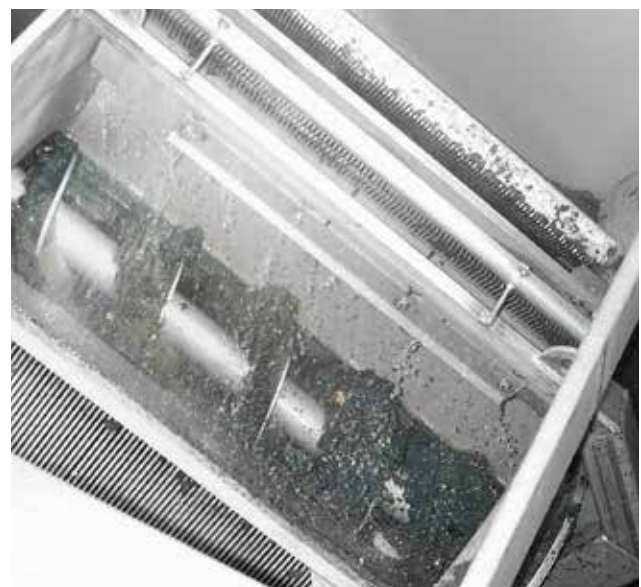
The main component of the Sludge Acceptance Plant ROTAMAT® Ro3.1 is the reliable HUBER Fine Screen ROTAMAT® Ro1. It excels with its high capacity, good

separation efficiency and low head loss. Another exceptional feature is its integrated screenings press with all its benefits.

The ROTAMAT® Fine Screen is extremely sturdy, able to deal with rocks and grit, and made entirely of stainless steel. It is fully self-cleansing as its rake tines fully engage the basket bars. (More detailed information on this screen can be found in the brochure HUBER Fine Screen ROTAMAT® Ro1).



HUBER Sludge Acceptance Plant ROTAMAT® Ro3.1 with HUBER Fine Screen ROTAMAT® Ro1, heated and insulated unit.



Floating and suspended material is retained in the screen basket. The tines mesh into the basket bars and ensure a complete automatic cleaning.

HUBER Sludge Acceptance Plant ROTAMAT® Ro3.3 with Grit Trap and Grit Classifier

This type of plant is used for complete separation of screenings and grit.

It consists of:

- ▶ Fine screen with integrated screenings press



HUBER Sludge Acceptance Plant ROTAMAT® Ro3.3 with unaerated grit trap and integrated grit classifying screw.

- ▶ Unaerated grit trap with grit classifier

Complete treatment of the septic sludge is performed within a single unit. This rules out odour annoyance on the outside.



Well-proven mechanical pre-treatment components combined within the HUBER Sludge Acceptance Plant ROTAMAT® Ro3.3.

HUBER Sludge Acceptance Plant RotaShield®

A rotating high-performance screening drum ensures reliable, clog-free solids transport through forced guided material transport within the drum. The plant can therefore be used for extreme applications. Solids washing and dewatering by means of a subsequent screenings wash press, type HUBER Wash Press WAP®.

- ▶ High solids throughput even with problematic material (tresses, wet wipes, etc.)
- ▶ Short tanker vehicle emptying times
- ▶ Optional simultaneous emptying of several vehicles
- ▶ Defined separation size due to two-dimensional screening



HUBER Sludge Acceptance Plant RotaShield® in use.



HUBER Sludge Acceptance Plant ROTAMAT® Ro3.1 with ROTAMAT® Fine Screen Ro1.

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