



# HUBER Complete Plant Hydro Duct ROTAMAT® Ro5 HD

Complete Plant with Hydro Duct

- ▶ Well-proven mechanical preliminary treatment equipment
- ▶ High grit separation efficiency
- ▶ Large scum separator with automatic grease removal
- ▶ Optional grit washing

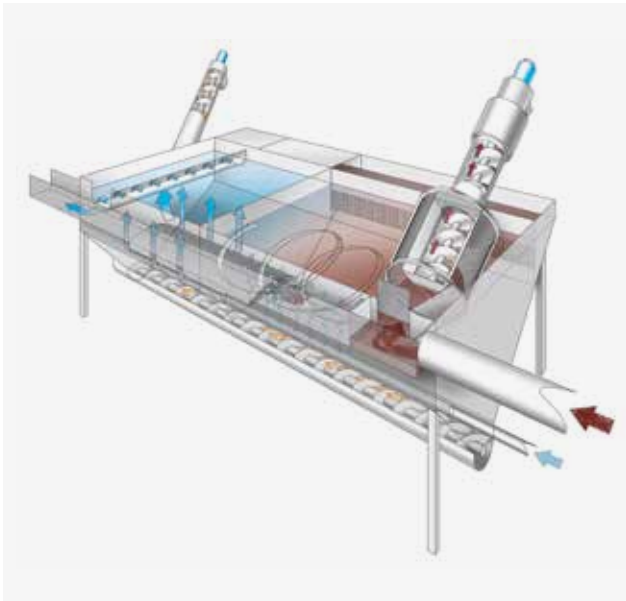
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## Features

The unique HUBER Complete Plant Hydro Duct ROTAMAT® Ro5 HD combines the benefits of both aerated and unaerated grit traps by using a high-performance, innovative grit trap with a small overall plan area. The wastewater flows firstly through an inlet screen that retains, washes, compacts and dewateres the solids contained within the flow. The screened wastewater then passes at a right angle into the grit trap tank where it generates a spiral flow. Integrated air tubes support the spiral flow and ensure that the organic particles are kept in suspension. Additionally, grease and similar substances float to the surface by the action of the aeration system within the grit trap. The flow then enters a second unaerated upflow grit trap chamber which contains an integral hydro duct that ensures a directed flow approach from the bottom of the chamber with positive and uniform upflow distribution. The flow velocity in the unaerated grit trap chamber is reduced to such an extent that very fine grit settles at the bottom and the grease rises to the water surface from where it is automatically removed by a well-proven paddle system. Whilst the particles separated from both chambers are removed from the grit trap by classifying screws or grit pumps, they are simultaneously being statically dewatered, or washed in a grit washer, prior to being discharged into a container.

As an option, the separated grit trap material can be washed in the Complete Plant. In this case, the horizontal grit conveyor transports the separated grit fractions directly into a grit washer integrated at the Complete Plant outlet.



*Schematic drawing of a HUBER Complete Plant Hydro Duct ROTAMAT® Ro5 HD.*

Due to a defined introduction of upwardly directed service water the grit situated within the lower part of the grit washer is fluidised within the flow enabling the lighter organic particles to be separated from the dense grit particles. The separation of the lighter organic particles from the dense grit particles is supported by a rabble rake. After removal of the organic material the clean grit is automatically removed by a classifying screw, statically dewatered and discharged into a container.

## Benefits

- ▶ Fully integrated screenings separation, washing and dewatering in one system
- ▶ Very high levels of grit separation of 95% of grain size  $\geq 0.20$  mm (confirmed by the University of Erlangen)
- ▶ For any throughput up to 150 l/s (540 m<sup>3</sup>/h)
- ▶ Large surface for grease separation with automatic grease removal system
- ▶ Optionally integrated emergency bypass possible
- ▶ Optional integral grit washing system
- ▶ Above-ground or underground installation
- ▶ Small footprint and space-saving compact design
- ▶ Optionally available without inlet screen
- ▶ Completely made from stainless steel (including the screws)



*HUBER Complete Plant Hydro Duct ROTAMAT® Ro5 HD with integrated grit washer.*

## HUBER SE

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