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## HUBER Solutions for Sludge Thickening

Thickening is the first step for reducing the sludge volume by removal of free sludge water. Thin sludge is concentrated to thick sludge. Thick sludge has a higher viscosity, but must still be pumpable.

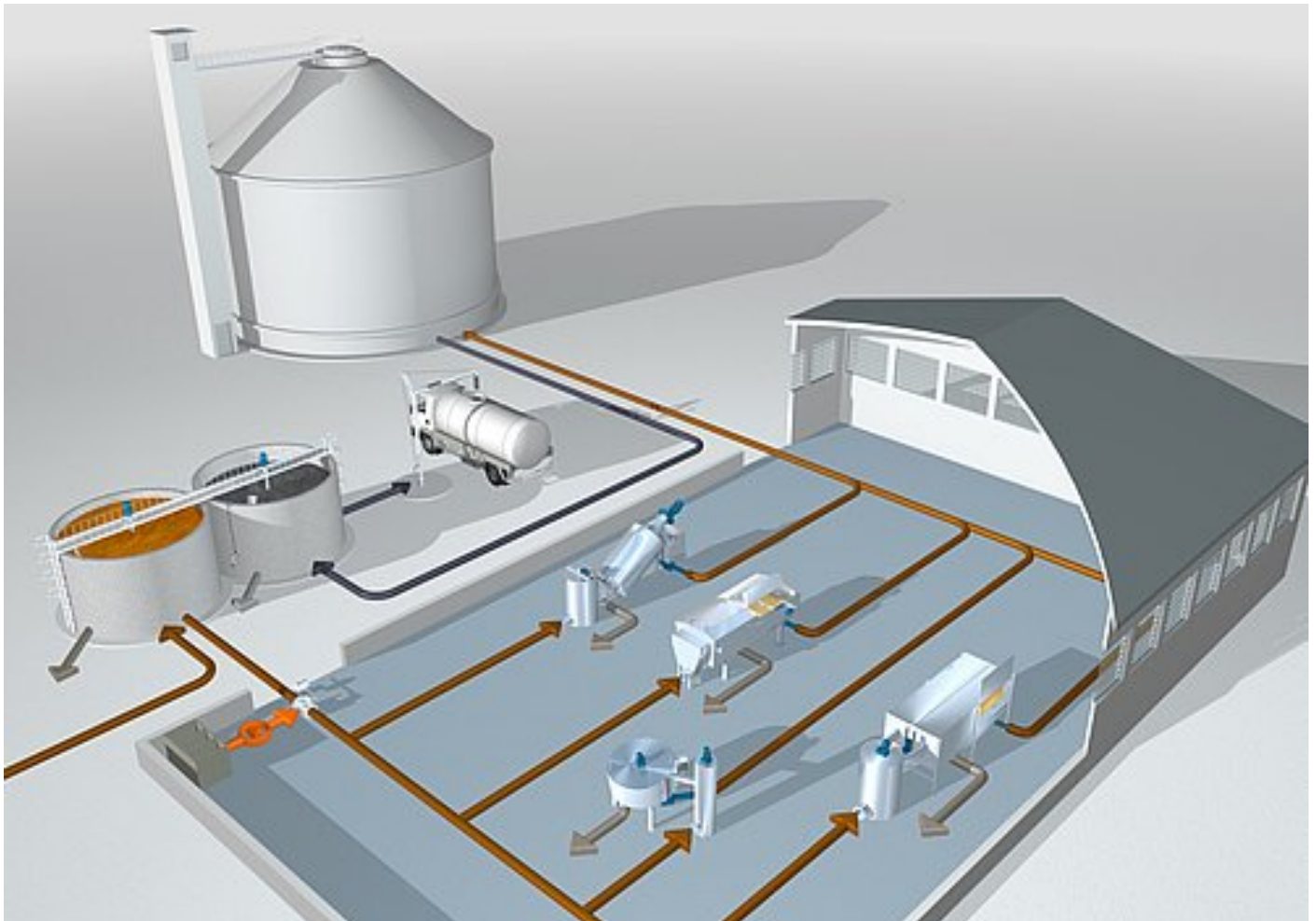
Sludge settles in gravity thickeners and is compressed by the weight of its own solids. Due to their higher specific density, primary and digested sludge can be better gravity-thickened than secondary sludge.

Secondary sludge (e.g. waste activated sludge) is preferably thickened mechanically, separate from primary sludge. Polymers are added to the thin sludge for flocculation. Generation of large and strong flocs depends on the right choice and dosage of polymers, and on intensive mixing of polymers and sludge. Sludge water is released between the flocs and drains by gravity through a filter medium (cloth or fine screen) while flocs are retained thereon.

We manufacture various kinds of highly effective HUBER machines for sludge thickening. They are all made of stainless steel and can be distinguished by their design, size and capacity. We offer best-performing equipment for every application:

- [Screw Thickeners](#)
- [Disc Thickeners](#)
- [Belt Thickeners](#)

## Systems concept



*Click on the image to get a detailed, interactive view with additional information and links.*

[Photos](#)



Video: HUBER Disc Thickener S-DISC - here at a municipal WWTP  
<https://www.youtube.com/watch?v=3B0yOFFdLyo>



Video: HUBER Disc Thickener S-DISC for thickening of excess sludge in meat processing industry  
<https://www.youtube.com/watch?v=HvwV0BaLd68>



Video: HUBER Screw Thickener S-DRUM (RoS2) - here at a municipal WWTP  
<https://www.youtube.com/watch?v=uxjMve6yi50>



Video: HUBER Belt Thickener DrainBelt - here at a municipal WWTP  
<https://www.youtube.com/watch?v=6pcHf8aJpqQ>



Video: Complete wastewater treatment at the Øygarden WWTP in Norway  
<https://www.youtube.com/watch?v=KU2awn3DP68>

## Case Studies

- [A HUBER Technology Sludge Thickening case study](#)
- [Milford Haven WwTW Case Study: HUBER Disc Thickener S-DISC](#)
- [New HUBER Screw Press Q-PRESS® 620.2 for sludge dewatering: operational experience on STP Bad Orb](#)
- [Magilligan WwTW - A Wastewater Case Study](#)
- [Flexible Disc Thickener on WWTP Waging](#)
- [HUBER sludge treatment plant on the Black Sea Coast](#)
- [Test and operating results achieved on WWTW Köln-Stammheim](#)
- [ROTAMAT® Disc Thickeners RoS 2S for Small Treatment Plants](#)
- [Efficient Sludge Treatment at Small Plants](#)
- [ROTAMAT® Disc Thickener RoS 2S – A perfect reference of reliability](#)

## Products

- [HUBER Disc Thickener S-DISC](#)
- [HUBER Rotary Screw Thickener S-DRUM](#)
- [HUBER Belt Thickener DrainBelt](#)

Adresse / address: HUBER SE · Industriepark Erasbach A1 · 92334 Berching · Germany · Telefon / phone: + 49 - 84 62 - 201 - 0 · Fax / fax: + 49 - 84 62 - 201 - 810  
e-mail: [info@huber.de](mailto:info@huber.de) · Internet: <http://www.huber.de>

Sitz der Gesellschaft / Headquarters: Berching · AG Nürnberg / Register of companies: HRB 25558

Vorstand / Board: Georg Huber (Vorsitzender / CEO), Dr.-Ing. Oliver Rong (stellvertretender Vorsitzender / Vice CEO), Dr.-Ing. Johann Grienberger, Rainer Köhler  
Aufsichtsratsvorsitzender / Chairman of the Supervisory Board: Alois Ponnath

USt (VAT)-IdNr.: DE 812353219

Bank: HypoVereinsbank Nürnberg (BLZ 760 200 70) 5 008 409 · SWIFT-BIC: HYVEDEMM460 · IBAN: DE 30 7602 0070 0005 0084 09

