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HUBER Solutions for Mechanical Pre-Treatment

Removal of interfering substances from raw wastewater and sludge

Good mechanical pre-treatment is important for protection of subsequent processes from clogging, tressing and abrasion. It is precondition for reliable operation, with little wear and maintenance of the entire plant.

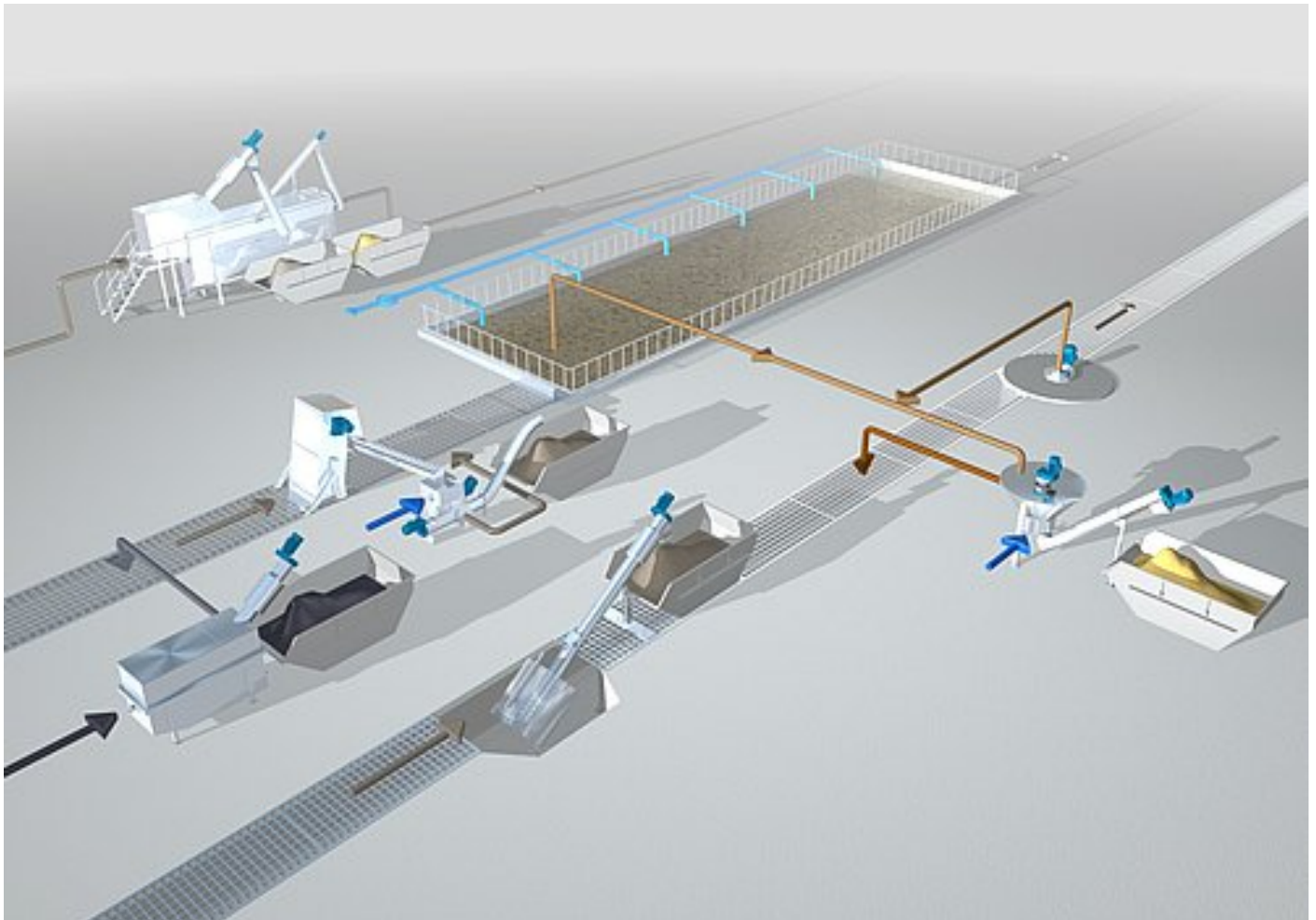
Mechanical pre-treatment includes screens for removal of debris and other disturbing solids, screenings treatment and grit traps for removal of mineral solids (stones, grit and sand) as well as grease traps for removal of fat, oil and grease.

By pertinacious pioneering work HUBER has gained global market leadership in every field of mechanical pre-treatment:

- We have introduced fine and ultra-fine screens in the market. Thousands of our [ROTAMAT®](#) units are in worldwide operation. In addition, we have supplied over a thousand [STEP SCREEN®s](#) and hundreds of [Perforated and Bar Screens](#).
- We are also the leader in [Screenings Treatment](#), e.g. with our superior Super-Launder [Wash-Press WAP/SL](#).
- We have developed and introduced innovative HUBER solutions for [Grit Treatment](#). The performance of our [Grit Washers](#) remains unparalleled.
- We were the first to integrate the entire pre-treatment in single and compact units, in our [ROTAMAT® Complete Plants](#).
- In addition we are the unparalleled market leader in [Faecal Sludge Treatment](#).

Due to our long-term and global experience & expertise, we offer the optimal solution for any mechanical pre-treatment problem. And we implement our solutions by supplying most reliable, durable and efficient HUBER products.

System Concept



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

Downloads

-  [Overview brochure: Mechanical Wastewater Screening](#) [pdf, 3.50 MB]
-  [Overview brochure: Screenings Treatment Systems](#) [pdf, 1.24 MB]
-  [Overview brochure: Grit Treatment Systems](#) [pdf, 1.32 MB]

Case Studies

- [HUBER Drum Screen LIQUID - innovative overall process succeeds in Norway](#)
- [Busy - the mobile plants with HUBER Drum Screen LIQUID help in planning and operation](#)
- [HUBER combines proven RakeMax® with center flow screen](#)
- [Targeting the fine sand: Grit Trap GritWolf® passes first endurance test in Texas](#)
- [HUBER's EscaMax® Gives Greenville a Clean Start at the Headworks](#)
- [Perforated Screen Technology Gives City of Clinton WWTP Programmable Performance](#)
- [HUBER's Perforated Plate Fine Screen Brings STAR Power to Star Water and Sewer District](#)
- [HUBER supplies a process system as replacement for the primary settling tank](#)
- [HUBER Multi-Rake Bar Screen RakeMax® Hybrid convinces with extensive practical experience](#)
- [Charfield STW Case Study: Inlet Screen Replacement Project](#)
- [When big ROTAMAT® Ro5 machines find their place](#)
- [Refurbishment project: regional STP Linz-Asten](#)
- [Reliable protection of membrane plants with HUBER Perforated Plate Screen ROTAMAT® STAR liquid](#)
- [Extensive practical experience with the HUBER Multi-Rake Bar Screen RakeMax® Hybrid](#)
- [Carbon removal with HUBER fine screening technology – a success story](#)
- [Flawless operation and longevity make the RakeMax® Multiple Rake Screen invaluable to Guelph's Screening Process](#)
- [Press Release: HUBER ROTAMAT® Ro3 Sludge Acceptance Screens for one of the UK's largest Wastewater Treatment Works](#)
- [New product HUBER Drum Screen LIQUID: Increasing requirements need adapted solutions](#)
- [Pulborough STW Inlet Screen Upgrade - A Wastewater Case Study](#)
- [Major order: 12 HUBER Multi-Rake Bar Screens RakeMax® for Vienna](#)
- [Success in the South West for HUBER Technology](#)
- [Start-up of the equipment for preliminary mechanical wastewater treatment on WWTP Atotonilco](#)
- [New grease separation and removal system in our Hydro Duct grit traps](#)
- [Wash Press WAP® L for Launder Channel Feed: Meadowhead's success leads to subsequent orders from Scottish Water](#)
- [Dewatering and Compacting and Compacting of Reject from Food Waste AD Plant](#)
- [Meadowhead STW Wastewater Case Study](#)
- [Successful operation of ROTAMAT® Star liquid screens with folded perforated plate in Tarbes Ouest, France](#)
- [Milford Haven STW - A Wastewater Case Study](#)
- [Wider range of application: RakeMax®-J Multi-Rake Bar Screen with curved screen bars](#)
- [RakeMax®-hf combines the advantages of the wellproven RakeMax® and a bar rack with a very small inclination!](#)
- [HUBER supplies the equipment for a major sewage treatment works in Berlin](#)
- [Huber Technology upgrades the Inlet works at Duncrue Street, Belfast - a Wastewater case Study](#)
- [A successful combination: Launder Channel plus Wash Press SL](#)
- [STP Flörsheim relies on HUBER know-how and buys a RakeMax®-hf screen](#)
- [First complete treatment plant for sewer grit installed in China](#)
- [Multifunctional Complete Plant installed on STP Ortenburg](#)
- [Further development of the well-proven ROTAMAT® screen concept: new Pro line](#)
- [First TrashMax® screen installation abroad exceeds expectations](#)
- [HUBER TrashMax® Screen tests on a WWTP of AZV Südholstein](#)
- [Three HUBER RakeMax® screens for STW Magdeburg / Gerwisch](#)

- Further developed ROTAMAT® Rotary Drum Fine Screen with increased hydraulic capacity: ROTAMAT® Perforated Plate Screen RPPS-Star
- Sturdy screen for coarse material removal: HUBER Coarse Screen TrashMax®
- New RakeMax® screen for WWTP Deutschkreuz–Goldbachtal in Austria
- Mechanical wastewater pre-treatment for membrane bioreactors
- RPPS screens protect biggest membrane STP in North America
- HUBER supplies the machines for the mechanical treatment stage of the worlds' largest wastewater treatment plant project
- 4 HUBER VORMAX Vortex Grit Chamber screens in Saudi Arabia
- RakeMax®-hf: Save costs with even smaller bar spacing
- Grit washing in grit trap: Complete Plant plus grit washing plant
- L-shaped HUBER RakeMax® Multi-Rake Bar Screen completes the product range
- 28 RoDisc® Rotary Mesh Screens to treat Asia Olympics wastewater
- Two Perforated Band Belt Screens HUBER EscaMax® in Orlando, Florida
- Twelve 2.6 diameter Ro 1 screens in China's boom town
- HUBER's First STEP SCREEN® Reference in Peru - 2,760 m Above the Sea
- Perforated Band Screens EscaMax® for Anglian Water
- HUBER super-laundry wash-press excels at Penrith WWTP
- Solution for Plugging Problems in Wisconsin, USA
- HUBER Super-Launder Wash Presses WAP/SL Excel at Chelmsford WWTP
- Reducing Pollution from Combined Sewer Overflows
- Four RoDisc® Micro-Strainers for the Protection of Lake Taihu in China
- ROTAMAT® Membrane Screen RoMem
- 1000 COANDA Grit Washing Plant installations
- WAP/SL Screenings Wash Press – A Synonym For Best Results
- Washing of screenings and simultaneous dewatering with high pressure
- Excellent 84% separation results due to the consequent further development of the EscaMax® Belt Screen

Photos





Video: Complete wastewater treatment at the Øygarden WWTP in Norway

<https://www.youtube.com/watch?v=KU2awn3DP68>



Video: Mechanical preliminary wastewater treatment - example: municipal WWTP Weiden

https://www.youtube.com/watch?v=vyieOQUR_9o



Video: Mechanical preliminary wastewater treatment - example: municipal WWTP Zwickau

<https://www.youtube.com/watch?v=SH3P8lpCDJM>



Video: Preliminary treatment with HUBER Belt Screen EscaMax® and Wash Press WAP/SL

<https://www.youtube.com/watch?v=g-aczj1GDtY>



Animation: HUBER CarbonWin® Process

<https://www.youtube.com/watch?v=60SHSH7XwTg>

Products

- Screens and Fine Screens
- Screenings Treatment
- Grit Separation and Treatment

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