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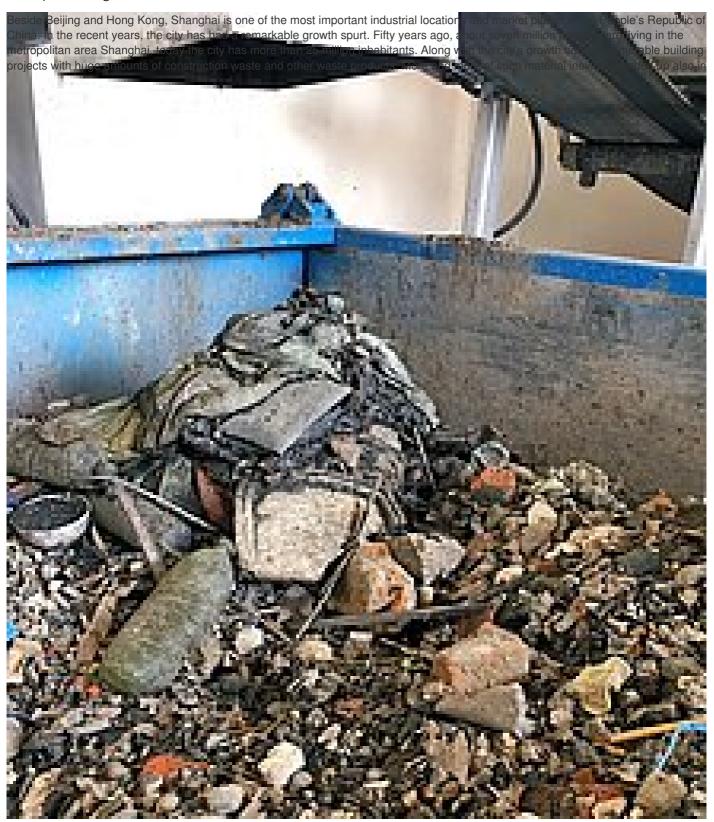
HUBER DO BRASIL



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Professional treatment of sewer grit

Megacities and their problem with construction waste Example: Shanghai



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Fig. 1: Coarse material with a high amount of construction waste from the sewer system in Shanghai

the sewer system where it settled and started to cause problems.

As a preventive measure, the sediments in the sewers, such as debris and grit, are removed several times a year by suction trucks and transported to the sewage treatment works. But this procedure leads to batchwise overloading of machine components in the mechanical sewage treatment stage, such as screens or grit traps, which significantly impairs the function of these components. Ultimately, coarse particles end up in the primary clarifier with further negative impacts on the complete sewage treatment works.

To avoid these problems, the raw material delivered by the suction trucks can be treated centrally in a decoupled grit treatment plant to remove undesired coarse particles, wash out the mineral fraction and discharge the pre-treated raw material into the inlet to the sewage treatment plant. This offers the plant operator several benefits:

- Reduced solids load within the sewage treatment plant
- Avoid operational problems caused by solids load peaks
- Reduced disposal volumes due to the organics being washed out from the raw material



Fig. 2: Grit treatment plant in Kunshan, China

plants. The concept of these projects is always based on the same principle:

- Continuous and dosed acceptance of raw material by a grabber and HUBER grit acceptance tank with integrated HUBER Grit Dosing Screw RoSF7
- Coarse material separation and washout in a HUBER Wash Drum RoSF9
- Grit washing in a HUBER Coanda Grit Washer RoSF4
- Organics removal by a 2 mm screen (different types of screens are used for different specific local conditions)
- Removal of fine grit by a hydrocyclone
- Diverse conveying systems, such as HUBER Screw Conveyor Ro8, etc

Due to the enormous growth of many cities in China, but also in other countries like India for example, it is only a question of time until grit treatment will have to be considered as a solution also in these regions. With more than 20 years of experience in the treatment of external sewer grit and grit from sewage treatment plants, HUBER is the right partner for planning, executing and supporting in such projects.

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