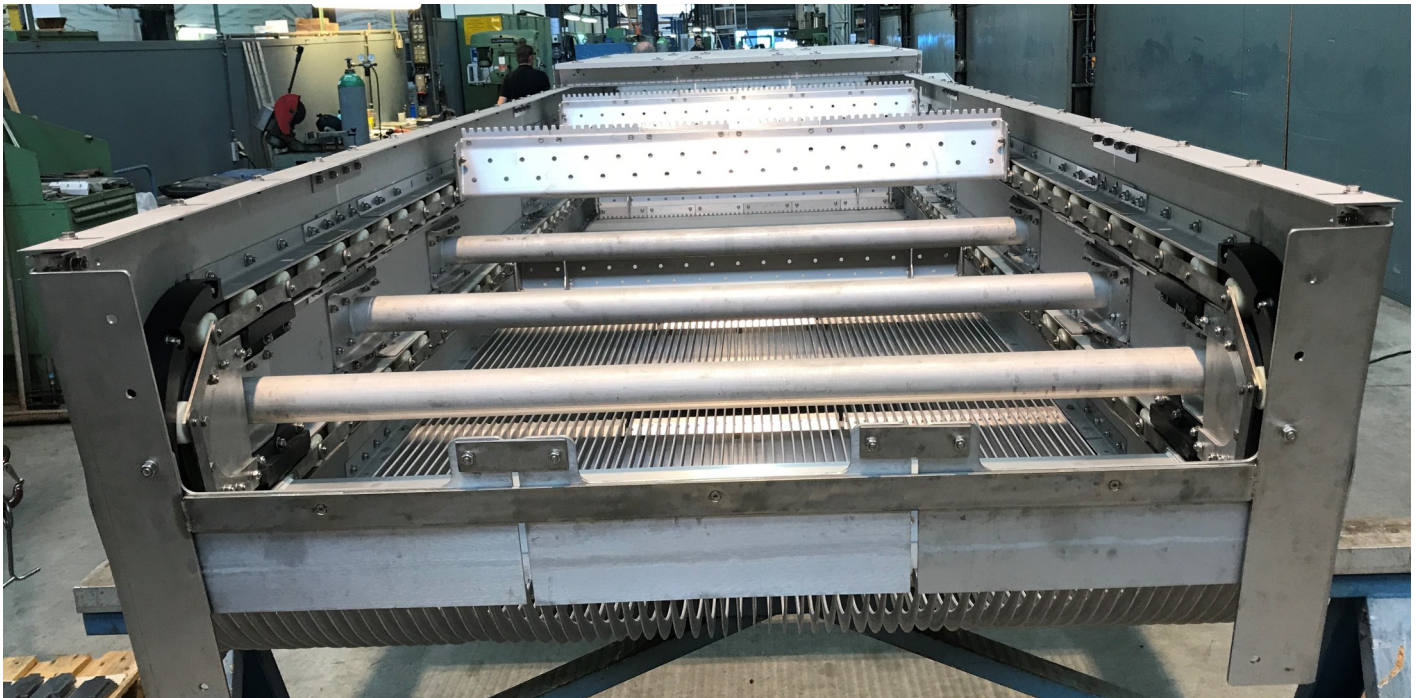


Cable Operated Bar Screen & Revolving Chain Screen for Water Treatment Plant Ruhlmuehle, Germany

Situation

The newly built modular water treatment plant (MWBA) in Ruhlmuehle (Neustadt/Spree) reduces the iron load from the old arm of the Spree by at least 90% and thus contributes decisively to improving the river water quality.

In the inlet to the plant, a Geiger® Cable Operated Bar screen cleans the river water before it enters the plant. As a 2nd treatment stage, a Geiger® Revolving Chain Screen/Multi Rake Bar Screen KUR-C is installed in the pump feed and reaction basin upstream of the pump chambers.



Factory Assembly Geiger® Revolving Chain Screen / Multi Rake Bar Screen KUR-C

Customer

Umtec Silo- und Schüttgutengineering GmbH

Commissioning

May 2021

Solution

The special feature of this project was that both the feed structure and the pump feed and reaction basin were designed as sheet pile structures. Special solutions had to be found for connecting the machines to these trapezoidal wall sections. In addition, the galvanic separation between the stainless steel machines and the normal steel sheet pile walls had to be carefully planned and executed to avoid later corrosion damage.

Technical Details

1 **Geiger® Cable Operated Bar Screen**

incl. switch gear and water level measurement

- Flow rate: 1,800 m³/h
- Water depth: 1.46 m
- Installation depth: 3.30 m (below deck level)

Video: [Geiger® - Cable Operated Bar Screen - YouTube](#)

1 **Geiger® Revolving Chain Screen KUR-C**

incl. switch gear and water level measurement

- Flow rate: 360 m³/h
- Water depth: 1.49 m
- Installation depth: 4.85 m (below deck level)

Video: [Geiger® - Revolving Chain Screen - YouTube](#)



Geiger® Cable Operated Bar Screen (above deck level)



Polyamide hose drums at Geiger® Cable Operated Bar Screen

Advantages

- Compact control cabinets for power and control are each mounted directly on the side panels of the machines.
- The drive shaft of the **Geiger® Cable Operated Bar Screen** is equipped with maintenance-friendly and wear-reducing polyamide hose drums
- Highly reliable grabbing and removal of bulky debris
- Highest efficiency: Cable Operated Bar Screen (traversing version) for three and more channels possible
- Fully automated cleaning operation with slack rope control (for 3-rope device)
- High cleaning performance of **Geiger® Revolving Chain Screen** thanks to the minimized gap between the bars and rake teeth
- Precise chain movement due to reliable guiding on either side
- Sprocket segments are made of polyamide (smoother-running, less noise, less corrosion. Segments can be easily exchanged)

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Product Line: Water Intake

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