

Screens from experience,
the simplest & most cost-effective solution
to water & wastewater treatment



contec screens

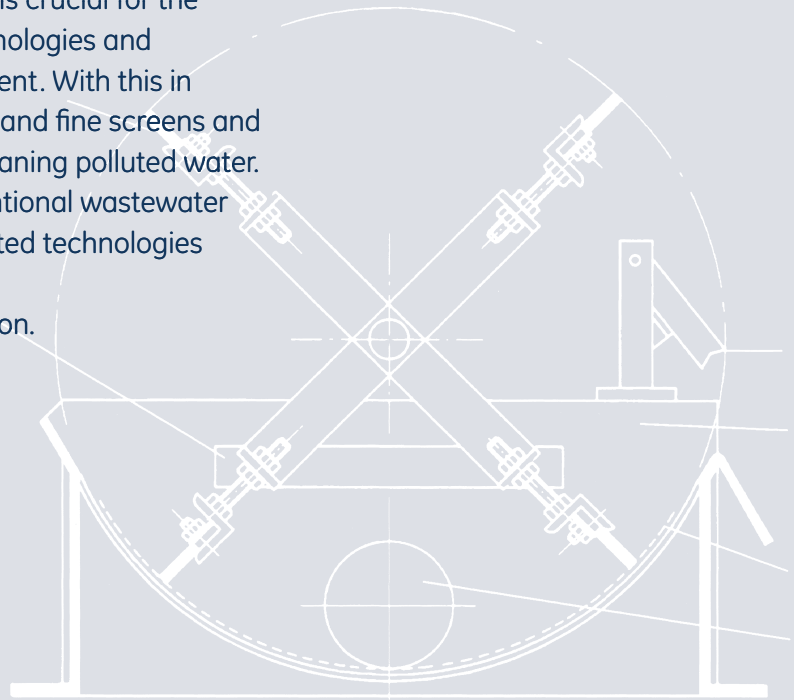


The preferred clean solution by experience

An awareness of the basic necessity of water is crucial for the development and commercialization of technologies and processes for water and wastewater treatment. With this in mind, Contec offers a wide range of coarse and fine screens and associated equipment for mechanically cleaning polluted water. Contec Screens are a perfect fit for conventional wastewater treatment systems as well as future-oriented technologies such as membrane technology.

The goal: A reduction in water consumption.

The result: A significant cost reduction.



A basis for enhanced technology.
The product spectrum for Contec screens.

Ever-increasing costs for ensuring fresh water supply and wastewater disposal requires a forward-thinking water strategy. An important component of this strategy is the ability to recycle wastewater for reuse.

The Contec range of screens provide a reliable solution for water treatment, and have proven their worth in both municipal and industrial wastewater treatment applications.

The standard models are produced from SS 304 or SS 316. The equipment is driven by powerful three-phase motors with an IP 65 protective system. The drive units can be supplied for all standard power supplies and are also available in explosion-, flame- or flood-proof models.

Contec's fine screens and combined screens are perfectly suited for Membrane Bioreactor applications. In sewage plants, Contec screens reliably remove all of the non-biodegradable coarse material from the wastewater. The size range of such material includes beverage cans and bottle caps, personal hygiene products, plastic items and fibrous material such as hair.

Operation of the proven Contec screens is surprisingly simple:

The water is led via a baffle box with a flanged connection to a perforated screen at the lowest level. The perforation size is chosen according to the individual separation requirements.

The strainer retains the solids, and the screened water flows by gravity into an outlet or open channel, or, if desired, into a receiving pan with a drain flange.

Slowly rotating brushes reliably remove the solids from the screen surface. A mechanical scraper, which operates without an additional drive, pushes the removed solids into the screenings ejection slot.

If requested, a screw conveyor, a screenings press, or a screenings washing press can be added to the screenings ejection slot. Another alternative is to add a simple screenings chute, which feeds the solids into a container.

Contec screens of the B and BF series as well as those of the D and DF series are operated via

horizontally-fed perforated screens. This unique construction guarantees an exceptionally high separation rate for floating solids, settling sediments, suspended solids and fibrous materials.

The operation of Contec screens is reliable and efficient, and is independent of varying operating conditions or disruptions in feed flow. Even if the flow runs dry, the service life of the adjustable brushes is only minimally affected. An equipment service life of up to 40,000 operating hours is not uncommon.

Contec screens also operate reliably under winter conditions due to the heating system, which is available as an option.

Contec screens are fully automated and almost maintenance free; constant monitoring of the screens is not necessary.



B and BF series screens

- Compact series for treating wastewater with low flow rates e.g. as primary screening for containerized sewage plants or for membrane plants
- Flow rates up to 25 m³/h (0.16 MGD) for municipal wastewater
- Screen perforations of 0.6 mm to 6 mm
- Low energy consumption (0.4 to 5.0 Wh/m³; 0.08 HP/MGD to 1.7 HP/MGD)
- Closed, odour-proof system
- Optional heating system
- Adjustable polypropylene brushes

Vertical screens of the BV and DV series

- Effective removal of solids e.g. for river water treatment
- Flow rates up to 1,800 m³/h (11 MGD)
- Screen perforations of 0.6 mm to 20 mm
- Flood-protected drives
- Encapsulated bearings
- Solids do not need to be extracted or disposed of
- Special designs for existing plants



DK-series combined screens

- Efficient removal of solid matter by means of combined coarse and fine screens
- Pre-treatment with 5 mm screens; fine treatment with 0.8 mm screens
- One drive, two different screen perforations
- Screenings disposal into a common chute
- Optional heating system
- Adjustable polypropylene brushes

D and DF series screens

- For wastewater treatment and fine screening e.g. for membrane plants
- Flow rates up to 1,800 m³/h (11 MGD)
- Screen perforations of 0.6 mm to 20 mm
- Very low energy consumption (0.3 to 4 Wh/m³; 0.07 HP/MGD to 1.3 HP/MGD)
- Extremely long service life (35,000 hours of operation)
- Large screening surface
- Continuous screenings ejection
- Integrated inlet baffle box for reducing pressure drop if small connecting pipes are used
- Overflow box to prevent flooding
- Optional heating system
- Adjustable polypropylene brushes
- Optional spray washing system



The preferred solution, from experience

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wastewater technology
– low maintenance,
durable and cost-effective

- Perforated screens for fine processing (screen perforations of 0.6 to 20 mm)
- Fine screens for Membrane Bioreactors
- Combined screens as space-saving, cost-effective solution
- Vertical screens to retain solid matter
- System solutions with screw-type conveyors for transporting screenings or screenings presses for draining and compaction
- Accessories for optimising systems
- Special designs for individual customer requirements



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