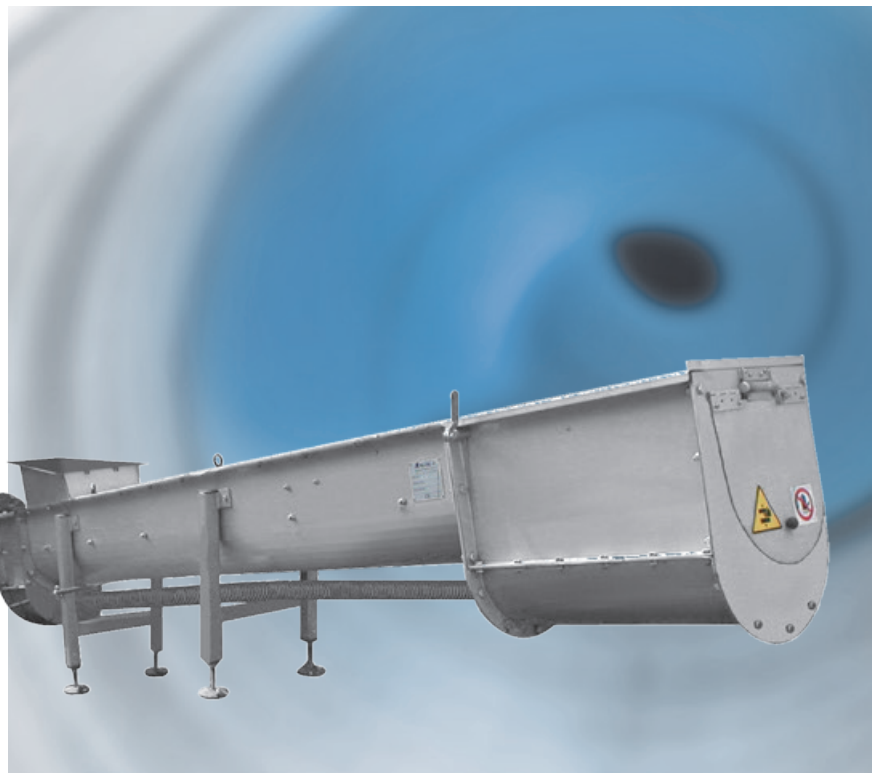


JOHNSON SCREENS® Screenings Spiral Compactor MD



TASK

Transport, pressing and dewatering of screenings and waste materials either in wastewater treatment plant or industrial processes.

SOLUTION

The JOHNSON SCREENS® Screenings Spiral Compactor MD offers a simple, cost-effective solution for dewatering, compaction and reduction of screenings and various other process or waste materials. Due to its shaftless spiral it can be used with problematic materials without blockages. Size, length and installation angle can be adapted to meet individual site requirements.

FUNCTION

The JOHNSON SCREENS® Screenings Spiral Compactor MD consists of a shaftless spiral conveyor inside and an u-shaped trough with bolted removable covers. The solids are feed via a hopper into a conveyor trough, where it is taken up by a spiral and transported to the compacting and dewatering zone before being disposed off into a container. Liquids pressed from the screenings returns to the inlet base and then are either discharged to a drain or returned for further treatment.

PERFORMANCE

Screenings Spiral Compactor Type	MD 20	MD 30	MD 40
max. inlet capacity (m³/h)	2	5	8

MATERIALS

Conveyor trough, covers, inlet hopper,

support and screen basket:

Spirals:

stainless steel AISI 304 L or AISI 316 L

special Micro Alloy Steel St52 (carbon steel in accordance with JOHNSON SCREENS® standard), alternatively AISI 304 L or AISI 316 L

Wearing liners:

PE-UHMW 1000 or stainless steel

BENEFITS

- Easy operation and maintenance:
 - main parts of the machine are in bolted sections to grant good access for inspection and maintenance
- Economic solution in one compact system
- Heavy-duty spiral with insert design
- Safety microswitch on the dewatering zone for safe operation and inspection
- Fully encapsulated system
- No internal bearings to prevent blockages
- Non-clogging even with fibrous materials
- Flexible installation and ease of integration into existing plants:
 - length between 1.5 m and 12 m, customisable trough length
 - customisable installation angle between 0° and 25°



BILFINGER

**WATER
TECHNOLOGIES**

OPTIONS

- Heating and insulation for outdoor installation / winter operations
- Automatic washing system with solenoid valves
- Vertical outlet with continuous bagging system
- Direct lateral connection from spiral conveyor to minimize installation height

APPLICATIONS AND FIELDS OF OPERATION

- Waste disposal and wastewater treatment plants
- Beverage industry, catering, canteens
- Fish and meat processing
- Abattoirs and tanneries
- Chemical and paper industry
- Food industry
- Fruit and vegetable industry



Municipal wastewater treatment plant application



Detailed view of spiral

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