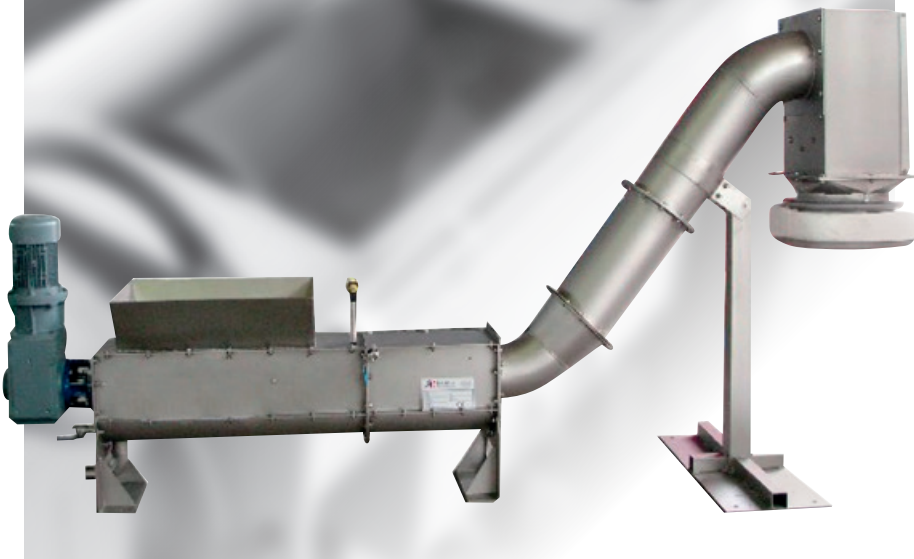


JOHNSON SCREENS® Screenings Wash Press MDX



TASK

Dewatering, compaction, conveyance and washing out of soluble organics of various process-screenings and waste materials.

SOLUTION

The JOHNSON SCREENS® Screenings Wash Press MDX offers a simple and reliable solution for compaction and washing of the screenings coming from processes or waste materials. It can be used for numerous industrial or municipal applications to reduce the organic content of the separated screenings even in existing plants.

FUNCTION

The JOHNSON SCREENS® Screenings Wash Press MDX consists of a shafted screw conveyor and an inclined duct with inspection cover. Screenings entering into a hopper are conveyed to the compaction and dewatering section before being disposed into a container. A screenings volume reduction from 70 up to 80 % can be reached and a DS-contents of 40 % can be obtained. The liquid pressed off the screenings goes back to the base inlet of the compactor and is drained. The washing system is arranged in the transport zone to wash the screenings in three different phases. The positioning of the washing ramp grants a real dissolution of the organics, reducing the amount of soluble organics to max. 5 %.

PERFORMANCE

Screenings Wash Press Type	MDX20	MDX25	MDX30	MDX40
max. capacity (m ³ /h)	2	3	4	7

BENEFITS

- No bearings to support the shafted spiral
- No necessity for wearing liners
- Easy operation and maintenance:
 - main parts of the machine are in bolted section to grant good access for inspection and maintenance
- High performance at low cost
- Non-clogging even with fibrous materials
- Low wear and tear due to low rotational speed



BILFINGER

**WATER
TECHNOLOGIES**

MATERIALS

Conveyor trough, covers, supports,

wearing liners:

stainless steel AISI 304L or AISI 316L

Spirals:

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

OPTIONS

- Heating and insulation for outdoor installation / winter operations
- Continuous bagging system
- Control panel for automatic operations

APPLICATIONS AND FIELDS OF OPERATION

The JOHNSON SCREENS® Screenings Wash Press MDX can be employed in municipal or industrial applications:

- Washing and dewatering of screenings
- Thickening of all kinds of short-fibred matter



Municipal wastewater treatment plant application



MDX receiving screenings from Bilfinger Johnson Water Technologies MNT Bar Screen

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