

## Screw conveyors - ŠD

Screw conveyors are devices intended for transportation of wet solids. Typically, they are used in WWTPs, where they transport screenings, sewage sludge and grit sediment from various containers and tanks. The material being transported falls from the input hopper into a trough, where the motion of the rotating screw moves them towards the discharge port.

Screw conveyors ŠD, ŠD-B are intended for integration into lines for processing screenings, where they are typically installed under screening equipment and prior to screenings presses.

The ŠDH, ŠDH-B, ŠDV models of screw conveyors are used for transportation of dehydrated or lime-sanitized sludge.

Technical data	
Transport volume:	1 + 50 m <sup>3</sup> /h <sup>1</sup>
Screw diameter ø/D:	150 + 650 mm
Conveyor length L:	1,5 + 19 (20) m
Screw inclination α:	0 + 35°
Drive unit power input:	0,55 + 15 kW
Heating power input:	0,1 + 5 kW

*For alternate parameter value ranges, please consult the manufacturer*



Product designation: ŠD D=L/α

ŠD-B D=L/α

ŠDH D×L/α

ŠDH-B D×L/α

ŠDV D=L/α



ISO 9001

WASTEWATER TREATMENT PLANT EQUIPMENT

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The  $\text{SD}$  models are available in two versions with different construction designs:

- screw conveyor with a shaft –  $\text{SD}$ ,  $\text{SDH}$ ,  $\text{SDV}$  models
- shaftless screw conveyors –  $\text{SD-B}$ ,  $\text{SDK-B}$  models

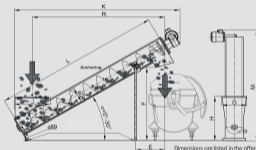
Their transport capacity depends on the diameter of the screw, slope of the conveyor, RPM, and nature of the material being transported.

Screw conveyors are mounted into troughs with metal slide rolls or plastic lining (centerless models), or into bearings (screws with shafts), and driven by electric gearboxes. The choice of conveyor type depends on the nature of the material being transported and the length of the screw.

Screw conveyors are made of oil-stainless steel, except for the centerless screws, which are made of high-strength carbon steel.

Optionally, the screw conveyor can be equipped with one or more input and output hoppers, slide valve closures, twin mixing screws, suwel trough, heated trough a smooth start, etc.

Custom size screw conveyors are also available.



For outdoor use with sub-zero temperatures, the trough is equipped with a double insulated jacket with electric heating. The size of the conveyor, the power input of the drive and the angle of inclination are determined by the manufacturer in the tender, or in agreement with the designer or operator.

The manufacturer Fontana R, s.r.o. offers its customers free consultations and technical assistance to help ensure optimal integration of equipment into the technological part of given WWTP. Service arrival within 24 (48) hours.