

## Screw conveyor - SD, SD-B

### TRANSPORT AND SANITATION OF SLUDGE

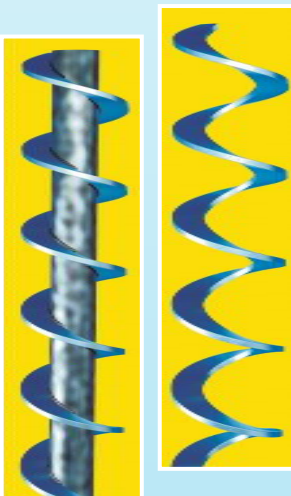
## Sludge screw conveyor - SDK, SDK-B, SDV

The screw conveyors are designed for transport of screenings, sludge, or substances of a similar nature.

The matter to be transported falls via an inlet chute into the screw trough and by rotation of the screw is moved to a discharge chute.

The SD is most often used in waste water treatment plants where it is installed below screens and provides transport of screenings from screens to a container or a press.

SDK or SDV is most often used in waste water treatment plants to remove sludge after machine dewatering on filter presses and centrifugal separators, or to remove sludge sanitized using lime.



Specification	
Quantity transported:	2,5 4 5,5 8 10 m <sup>3</sup> h <sup>-1</sup>
Screw diameter: $\varnothing D$	250 300 330 365 400 mm
Conveyor length: L	with shaft 1,5 ÷ 6 m
	shaftless 1,5 ÷ 20 m
Inclination: $\alpha$	0 ÷ 30°
Drive power input:	1,1 ÷ 7,5 kW; 400 V / 50 Hz
<i>Other parameter ranges have to be consulted with the manufacturer.</i>	

Product designation: SD  $\varnothing D \times L / \alpha$   
 SD-B  $\varnothing D \times L / \alpha$   
 SDK  $\varnothing D \times L / \alpha$   
 SDK-B  $\varnothing D \times L / \alpha$   
 SDV  $\varnothing D \times L / \alpha$



ISO 9001

Screw conveyors may be delivered in two versions:

- with screw with a central shaft - SD, SDK, SDV
- with a shaftless screw- SD-B, SDK-B

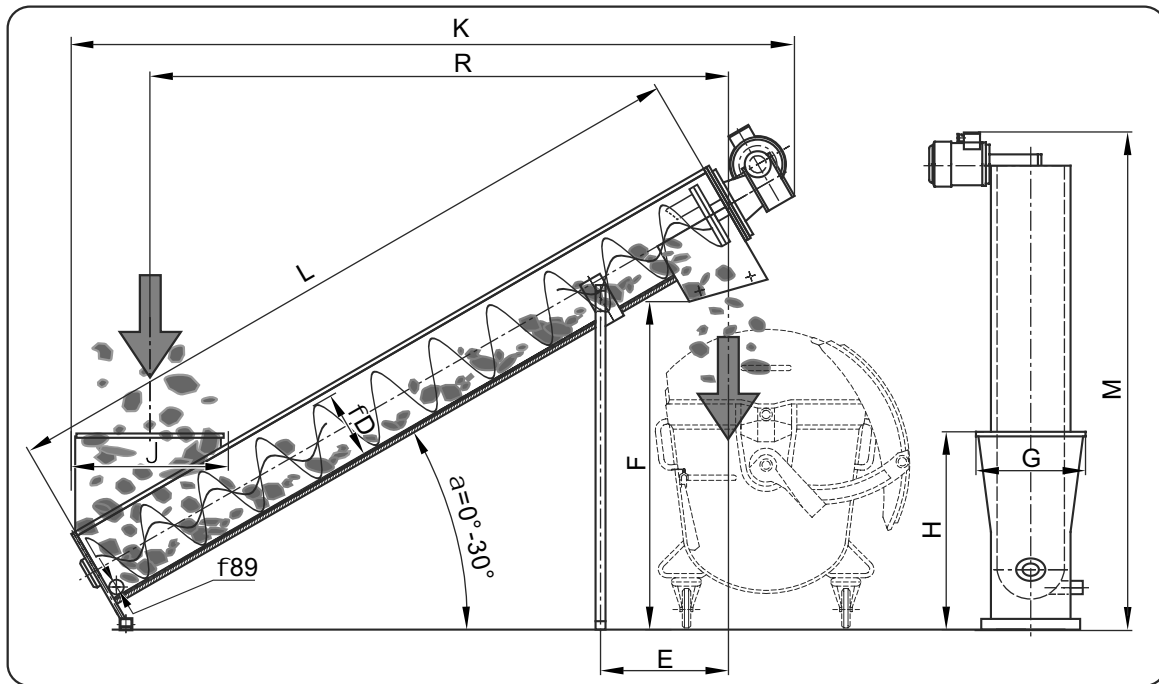
The quantity of the transported matter depends on the screw diameter, conveyor inclination, speed of the screw rotation and also on the character of the matter itself.

The troughs for shaftless transport screws are equipped with a stainless steel liner with welded-on wear resistant carbon steel bars, or a UHMWPE plastic liner. The screws with central shaft are equipped with bearings on both ends instead.

The conveyors are made wholly out of stainless steel, except for the shaftless screws which are made from a high strength wear resistant carbon steel.

The conveyors may be equipped with one or more inlet chutes, one or more outlet chutes, slides, electric slide gates, mixing twin screws, swivel mount, heating, etc.

The conveyors are always custom-built. Some examples of the sizing can be found in the table below.



<b>Example of dimensions for <math>\alpha = 30^\circ; 15^\circ</math> (the manufacturer respects different lengths and angles)</b>										
f D×L	E	F	K	M	R	a	G*	H	J*	P
250×2000	500	950	1820	1580	1540	30°	min. 270	min. 750	min. 500	1,1 + 7,5kW
250×3000	750	1450	2680	2080	2400					
250×4000	1000	1950	3540	2580	3260					
250×5000	1000	2450	4400	3080	4120					
250×6000	1000	2950	5260	3580	4980					
250×8000	<b>according to the project</b>	2100	7780	2650	7490	15°	min. 270	min. 750	min. 500	1,1 + 7,5kW
250×10000		2620	9720	3170	9450					
250×15000		3140	11660	3690	11410					

*\*G and J values depend on a and would be determined by the manufacturer*

The conveyors may be equipped with heating for outdoor use with temperatures below zero. The power input of the heating has to be determined according to the local conditions and size of the device and would be specified in the particular quotation.

To achieve an optimum incorporation of the equipment in the technological section of waste water treatment plants, FONTANA R offers consultations and technical support as a free customer service. Service within 24 (48) hours.



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