

## SCREW CONVEYOR

Catalog sheet



Screw conveyor is used for transportation of solid cake from MP-DW series dewatering machines. In comparison with belt conveyors MP-BC series, screw conveyor is capable of transporting sludge to bigger heights. In addition, cross-section of screw conveyor is smaller, compared to belt conveyor.

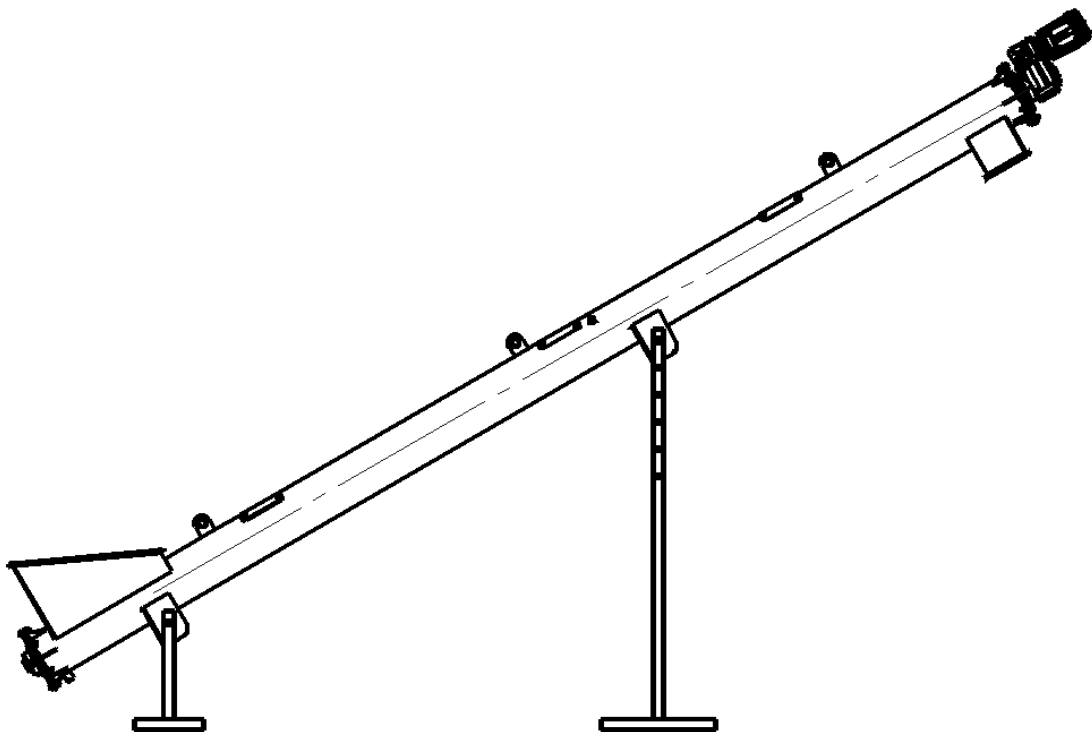
Conveyor (except of ball bearing and gear motor) is made of DIN1.4301 (AISI304) stainless steel. Screw shaft is inserted into tube, conveyor does not include any lining material, and thus it is not required to replace wearing parts.

Conveyor is driven by front transmission SEW gear-motor on the upper side of conveyor. This provides higher efficiency, compared to standard worm-type gear-motors. Shaft is mounted in ball bearing with permanent lubrication on lower side of the conveyor. In the middle of shaft, there is dry sliding bearing in order to support the shaft and maintain stable, small gap between the screw shaft and tube. There is drainage outlet on lower side of conveyor in order to drain excessive water, which can appear in case of wet solid-cake.

Conveyor includes service entries from the top side of tube for maintenance and cleaning purposes.

Conveyor is provided with two support consoles for fixing of conveyor into floor. Angle of conveyor can be adjusted by choosing different hole for screw on upper console.

Conveyor can be customized as mobile units on wheels, or as rotary unit. For using the conveyor outdoor on low ambient temperatures (below 4°C or 39°F), outdoor part of conveyor must be equipped with heating cable and heat insulation. This can be done as optional accessories.



**Parameters:**

	MP-SC-3.5	MP-SC-5	MP-SC-6
Motor	3x230/400 V, 50/60 Hz, 0.55 kW, IP55		
Screw RPM	39 [min <sup>-1</sup> ] (50 Hz)		
Screw shaft diameter	200 [mm]		
Max. capacity	2.5 [m <sup>3</sup> /h]		
Ambient temperature	+4 to +60 °C (without heating)		
Material	Stainless steel DIN 1.4301 / AISI304		
Max. conveyor angle	30 °		
Max. width	320 mm		
Axis length	4180 [mm]	5 480 [mm]	6 230 [mm]
Transportation length	3 300 [mm]	4 600 [mm]	5 600 [mm]
Outlet elevation (angle 30°)	1 550 [mm]	2 460 [mm]	2 950 [mm]
Inlet (LxW)	600x200 [mm]	600x200 [mm]	600x200 [mm]
Outlet (LxW)	200x200 [mm]	200x200 [mm]	200x200 [mm]
Weight	160 kg	200 kg	250 kg



**Manufacturer:**

**MIVALT s.r.o.**

*Hlinky 34, Brno 603 00, Czech Republic*

*mivalt@mivalt.eu, www.mivalt.eu, +420 775 660 062*