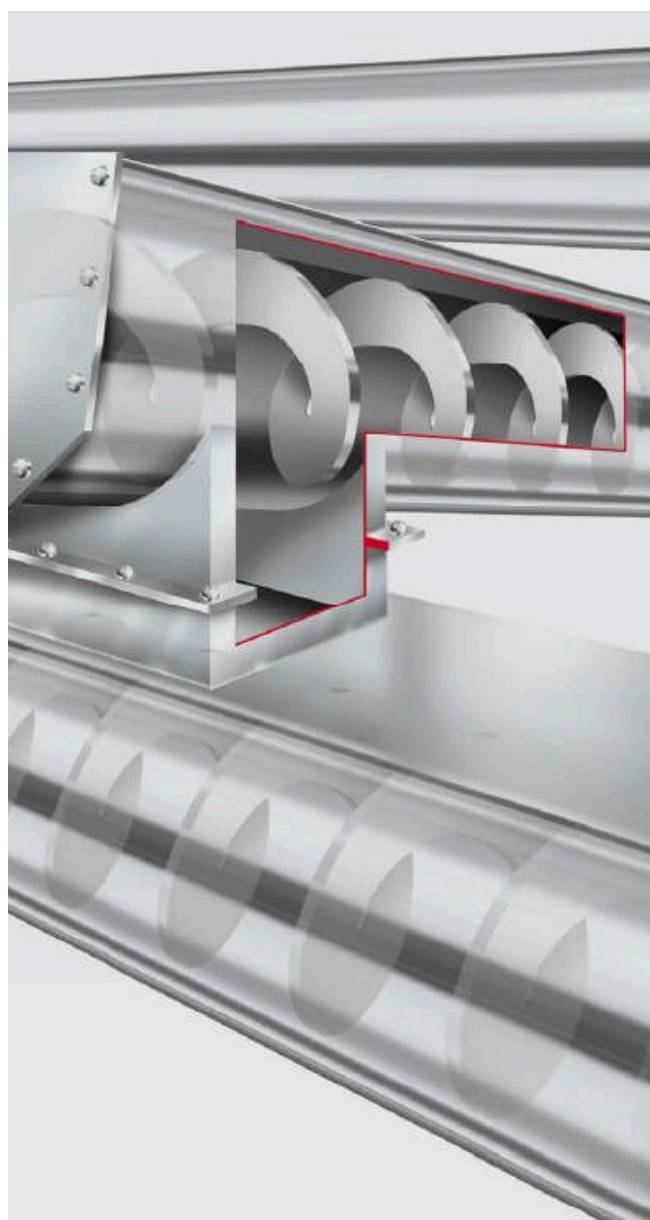




The CY-SC shaftless screw conveyor eliminates the centre shaft and intermediate hanger bearings: the screw body slides directly on wear-resistant liner plates, so it neither blocks nor tangles and is purpose-built for 'difficult' materials such as municipal sludge, refuse, food waste, screenings, suspended solids and dewatered sludge. Single-screw diameters of 6"–24" and twin-screw diameters of 9"–24" are available, widely used in wastewater treatment, sugar refining, fish and meat processing, fruit and vegetable beverage, paper and pulp, chemicals and food-waste processing.

Structure & Advantages: U-type trough (carbon steel or 304L / 316L stainless steel) + heavy-duty shaftless screw + ultra-high-molecular-weight polyethylene (UHMW) wear liner + end bearing assembly + fully enclosed trough cover. With no intermediate bearing, the material passage cross-section is maximized; the sealed trough cover enables odour-free operation, while the open interior facilitates inspection and cleaning.

Key Features

- ◆ No centre shaft and no intermediate hanger bearings — large material passage cross-section, never clogging
- ◆ UHMW wear liner as the sliding support — low noise, low wear, long service life
- ◆ Fully enclosed trough + sealed cover for odour-free operation and protection from external contamination
- ◆ Handles high-moisture, viscous and tangling materials with strong adaptability
- ◆ Conveying capacity up to 4200 CFH, power 0.75–10 HP, low energy consumption and small footprint
- ◆ Optional inspection / overflow openings, drainage kit, washing nozzles, and various liner and screw pitch options

Specifications

Model	Shell OD (mm)	Capacity (kg/h)	Speed (r/min)	Motor Power
SC-W100	108	20–500	24–132	0.75 kW
SC-W125	133	50–1000	24–132	1.1 kW
SC-W150	159	200–2000	24–132	1.5 kW
SC-W200	219	400–4000	24–132	2.2 kW
SC-W250	254	500–6000	24–132	2.2 kW
SC-W300	315	600–9000	24–132	4 kW

Material falls into open trough → Shaftless screw pushes along liner → Fully enclosed and odour-free →

Discharge at the end → Liner wear indication (optional)

◆ Note: capacity depends on the working angle, length and material properties. Optional direct / coupling / chain / belt drive; special diameters and pitches can be customized.