



The CY-SC trough screw conveyor is a modular U-type / V-type trough unit for horizontal or low-incline conveying and feeding of powders and granules. Manufactured in standard 304L / 316L stainless steel, the trough interior is extremely smooth with minimal material retention, making it ideal for food and environmental applications with strict cleanliness and corrosion-resistance requirements; it is also widely used in flour and feed processing, plastics, chemicals and pharmaceuticals. Light-duty and medium / heavy-duty structures are available, all certified to ATEX Zone 22.

Construction: U/V-type trough + end flanges + centre-pipe screw flights + adjustable shaft-seal end bearings + hanger bearings (as required) + bolted trough cover + gear motor. Modular trough and screw sections are assembled to length, with flexible inlet and outlet.

Key Features

- ◆ Standard 304L / 316L stainless steel design with modular trough and screw length combinations
- ◆ Smooth, seamless trough interior with minimal material retention and good self-cleaning
- ◆ External adjustable shaft seal at the end bearing (packing / air-purge options) keeps material out of the bearing
- ◆ Wide choice of intermediate hanger bearings (self-lubricating available) for long conveying distances
- ◆ Screw sections precision dynamically balanced for smooth, quiet running
- ◆ Variable-frequency speed control and multi-position inlet / outlet / vent / inspection openings

Specifications

Model	Shell OD (mm)	Capacity (kg/h)	Speed (r/min)	Motor Power
SC-100	108	20–500	24–132	0.75 kW
SC-125	133	50–1000	24–132	1.1 kW
SC-150	159	200–2000	24–132	1.5 kW
SC-200	219	400–4000	24–132	2.2 kW
SC-250	254	500–6000	24–132	2.2 kW
SC-300	315	600–9000	24–132	4 kW



◆ Note: capacity depends on the working angle, length and material properties; table data is for reference only. Variable-frequency motors available; special specifications designed on request. Optional trough cover (bolted / quick-release), open-bottom trough, inspection openings and chain / belt drive.