

Technical Report

PURATEK's[®] *Telescopic* Troughed Belt Conveyor



Puratek's telescoping conveyor discharges materials over a range of positions. The conveyor extends and contracts, under power, to uniformly and completely load containers or trucks.

The single belt travels over four drums engineered to tension and maintain belt stability throughout the telescoping process. The troughed belt is designed to

haul dewatered sludge and screened materials produced as part of the treatment of wastewater.

Serpentix[®] exclusively distributes Puratek Anlagentechnik GmbH's conveying and mixing equipment in the U.S.A. & Canada.

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Features of the Puratek[®] Telescopic Conveyor:

- An efficient design, based on sound engineering and years of application experience.
- Long service life with minimal maintenance.
- Variable discharge locations with no intermediate transfer points.
- Lengths from 9→14 feet to 24→40 feet (retracted → extended).



SERPENTIX is now the North American Distributor

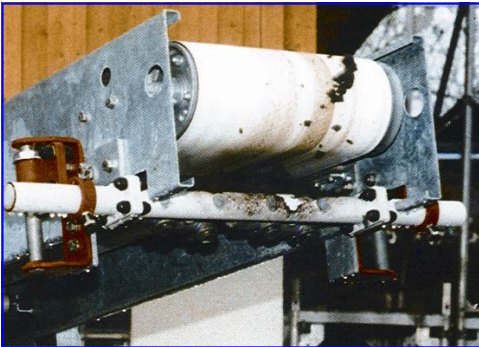
Telescopic Troughed Belt Conveyor Features:



Construction:

- Conveyor frame - mild steel or stainless steel.
- Guards shield moving components.
- Maintenance free or reduced service bearings.
- Smooth surface formed sheet metal frames for easy cleaning and corrosion resistance.
- Accessible lubrication fittings; large openings with removable covers for other routine adjustments.

- **Belt Drive** - shaft mounted gear reducer, 230/460v, motors 1.5 to 4 hp.
- **Telescopic drive** - worm gear motor, 230/460 volt, 0.5 hp.

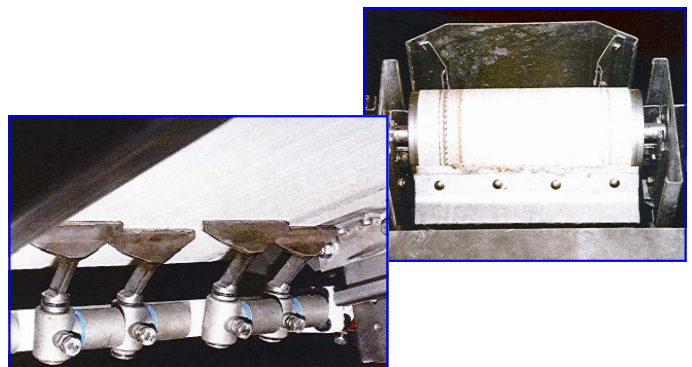


Belting:

- Belt widths from 16" to 32".
- Trough shaped by idler orientation.
- Belt speeds to 100 feet per minute.
- Quality belt made of enhanced plastic.

Scraping:

Effective scraping is vital to the successful operation of the conveyor. Scrapers are located on the drive and tensioning drum pulleys; plow-type scrapers are located at the belt return.

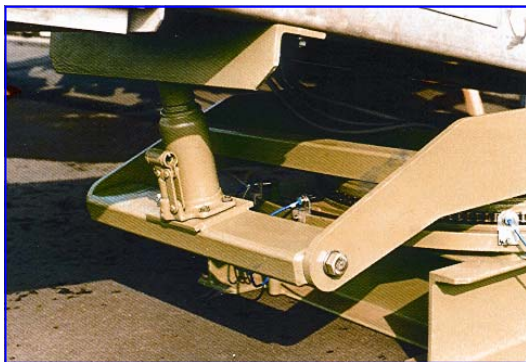
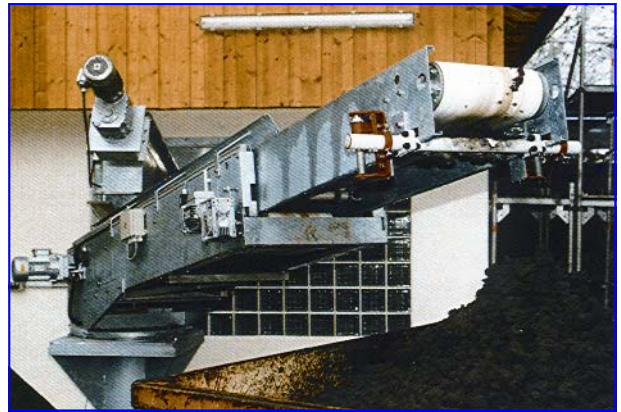


SERPENTIX Offers Greater Flexibility

Telescopic Troughed Belt Conveyor Options:

Swinging Platform Options:

A telescoping belt conveyor that also pivots on a platform further promotes uniform bin loading. A motorized pivot coupled with limit switches results in a conveyor that will rotate 360° with virtually unlimited material discharge points.



Height Adjustment Options:

Either end of the conveyor may be raised or lowered by utilizing motorized or manual hydraulic adjustment. At the loading end of the conveyor, the charging hopper may be positioned close to its loading source to reduce dust formation.



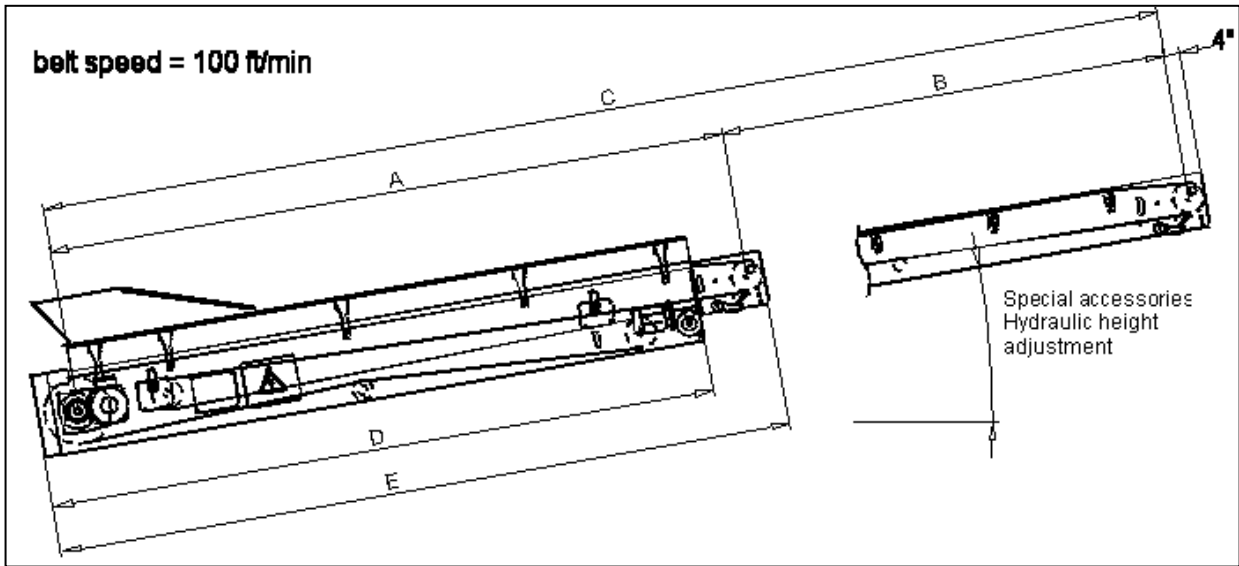
Mobile Support Options:

Conveyors less than 20 feet in length, including swinging conveyors, can be entirely supported at the loading end. Additional supports are needed for systems longer than 20 feet; on swinging conveyors the supports can be mounted on wheels.

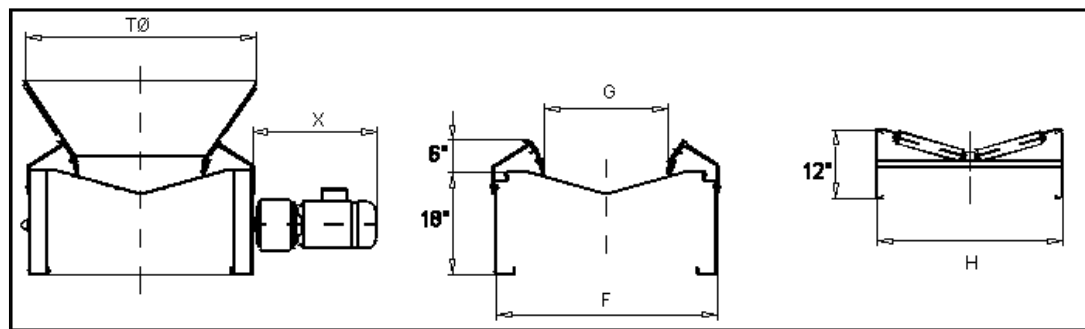
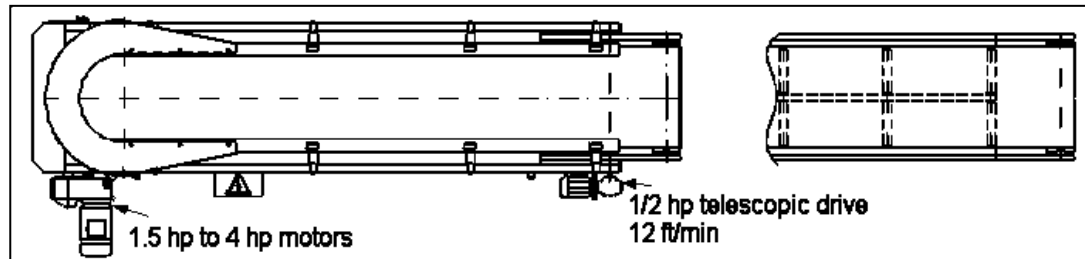
Other Options: Drip pans & covers - also available in telescopic design; heating systems for cold weather applications; motorized wheels for mobile supports.

In addition to its own line of *Continuous Path Conveyors™*, as the North American distributor for Puratek equipment, Serpentix also offers double shaft paddle mixers and shaftless screw conveyors.

SERPENTIX Now Offers a Telescopic Troughed Belt Conveyor



MODEL									
Dimension (feet)	FMT04	FMT05	FMT06	FMT07	FMT08	FMT09	FMT10	FMT11	FMT12
A	9.19	10.83	12.47	14.93	16.57	18.21	20.67	22.31	23.95
B	4.92	6.56	8.20	9.02	10.66	12.30	13.12	14.76	16.41
C	14.11	17.39	20.67	23.95	27.23	30.51	33.79	37.08	40.36
D	8.94	10.58	12.22	14.68	16.32	17.96	20.42	22.06	23.71
E	10.22	11.86	13.50	15.96	17.60	19.24	21.70	23.34	24.98



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Dimension (Inches)	16	20	26	31
F	27.56	31.50	37.40	43.31
G	11.02	14.96	20.87	26.77
H	21.65	14.96	20.87	26.77
TØ	28.94	32.87	38.78	44.68
X	vaies with motor size			

Conveyor Frame: Galvanized Mild Steel; 304 or 316 Stainless Steel