



# Powered Roller Conveyor



Systemec's powered roller conveyor is provided as powered accumulating roller (PAR), or powered roller only (PRO) conveyor.

The features of PAR conveyor are the fully accumulating drive, take-up, and intermediate sections, or midsections. PAR conveyor allows loads to be added to a conveyor line without disruption or movement of loads already present on the line. With optional control features, loads can be added to the conveyor line until it is full, maximizing utilization of the entire conveyor line. Another control option would be multiple areas of accumulation, or zones, for loads to move independently and stage down the conveyor line. The accumulation features of PAR conveyor allow a single, one horsepower drive, to run up to 70' of conveyor.

Systemec's PRO conveyor features a positive drive on the entire conveyor line and allows loads to be "indexed" as each load is added to the conveyor line. The indexing of loads will maintain a gap between the loads. Either line can be easily converted from PRO to PAR, or PAR to PRO.

All Systemec conveyors are manufactured using the latest technology available, from jig and fixture weldments, to laser cut parts for precision fit and extended life. There is no comparable conveyor to Systemec's conveyor, devices, and overall performance.



## OVERALL CONSTRUCTION

Systemec's powered roller conveyor is all welded steel frame construction, featuring laser cut precision technology.



## ADJUSTABILITY

Systemec's drive package features an 8" diameter, vulcanized rubber coated drive drum with 2700 of wrap on the drive belt. The gear-motor is a direct drive unit - no chains and sprockets!



## ENHANCED SAFETY

Systemec's take-up package features the same precision laser cut technology and features the easy access, easy track, belt tracking system.

## SPECIFICATIONS

Between Frame Dimension	48", 60", 72", 84", 96"
Overall Width	add 4 1/4" to B.F. Dimension
Section Lengths	2'-0" - 7'-0" Drive and Take-up Section (on 3" increments) 1'-0" - 7'-0" Mid-Section (on 3" increments)
Top-of-Roller Height	12" T.O.R. Standard (heights over 12" available) 1,000lb/ft.,
Drive Capacity	25,000lb/area of accumulation
Conveyor Speeds	30, 45, and 60 FPM VFD
Motor Air Requirement	1HP, 230/460volt, 3-Phase, 60 Hertz, Standard 45 PSI

## CONSTRUCTION

Sideframe	5" Channel, All-Welded Steel Frame Construction
Tie-Braces	Tube Steel, 4" x 4", 2" x 4", and 3" x 4" structural steel angle end braces (all tie-braces are gusset reinforced to the 5" channel sideframe) maximum 48" centers
Roller Support	Precision laser cut for 11/16" hex roller shaft
Roller Centers	3" Standard
Bearings	Greased packed, 13 piece-3/8" ball bearing, Teflon sealed for life bearing
Shafts	11/16", 1018 Solid Carbon Steel
Pressure Roller Channel	Precision laser cut and formed 3 3/4" x 1 1/4"
Drive Pulley	8" Diameter, Vulcanized Rubber, Crowned, 1 3/8" Diameter Shaft, with 270o belt wrap
Takeup Pulley	4" Diameter Crowned, 1" Shaft
Belting	15" Wide PVC Covered Both Sides, Nylon Interwoven

## CONTROL OPTIONS

Automatic	Positioning Controls with Electro-Mechanical Sensor Actuation
PC/Computer Controls	Positioning Controls with Control Software using Programmable Controller and/or Computers for Automatic Operation
Zone Controls	Positioning Controls using Photo-electric and Pneumatics to Control Load Movement
Manual	Pushbutton Operation

