

MODEL "190ZPA"

Medium Duty Belt Driven Live Roller Accumulating Conveyor

- **Zero pressure accumulation**
- **Air operated zones**
- **Easy installation and adjustment**
- **Economical**



NOTE: Shown with Optional Side Mounted Drive.

STANDARD SPECIFICATIONS

Driving Belt - Black PVC 120 belt.

Bed - Roller bed width between frames, 15", 21", 27", 33" and 39". 7" x 1 1/2" x 12 gauge powder painted formed steel channel frame, bolted together with butt couplings and floor supports. Frame sections are 10'0" and 5'0" long.

Tread Rollers - 1.9" diameter x 16 gauge galvanized steel rollers spaced on 3" centers. Safety pop-out design prevents damage to product or harm to personnel if caught between belt and tread rollers.

Pressure Rollers - 1.9" diameter x 16 gauge galvanized steel rollers with 7/16" hex shaft spaced on 6" and 12" centers. Raised by air to drive tread rollers, lowered when sensing device is activated.

Tail Pulley - 4" diameter crowned with 1 3/16" diameter shaft.

Drive Pulley - 8" diameter crowned and fully lagged with 1 7/16" diameter shaft. Located at infeed end of conveyor.

Snub Roller - 2 1/2" diameter adjustable mounted directly behind drive pulley, 2" diameter adjustable mounted directly behind tail pulley.

Floor Supports - Adjustable 31 1/2" to 45 1/2" from floor to top of roller. One support supplied at each end of conveyor and at each bed joint.

Sensing Roller - 1" diameter galvanized, mounted in counter balanced carriage, one for each zone.

Zones - Standard zones are 18", 24", 30" and 36" long.

Take-Up - Screw type take-up located at end of conveyor to maintain belt tension. 12" of belt take-up provided.

Bearings - Sealed prelubricated with cast iron housings.

Speed Reducer - C-Face mounted heavy duty worm gear reducer.

Motor - 1/2 HP 230/460-3-60 TE motor.

Conveyor Speed - 60 FPM constant. Some higher and lower speeds available. However, most efficient accumulation occurs at 60 FPM.

Capacity - See Load Capacity Chart. 150 pounds max. unit load. For loads less than 5 pounds, consult factory.

OPTIONAL EQUIPMENT

Center Drive - Mounted below conveyor bed section. Can be placed most anywhere in conveyor length.

Floor Supports - Higher or lower supports available. Minimum elevation with standard end drive, 25".

Sensing Devices - Limit switches, photo cells, etc.

Slug Release - Allows for conveyor to be unloaded quickly when accumulation feature not required.

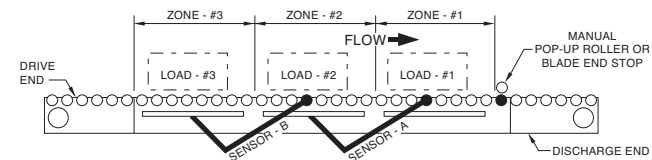
Guard Rails - Adjustable channel, continuous channel or solid steel guard rails are available.

Ceiling Hangers - 1/2" diameter threaded rods 8'0" long with locking nuts and mounting hardware. Other lengths are available.

Air Control Zone Stop - Pneumatic brake to stop rollers in work station area.

Motor - Single phase, energy efficient, explosion proof, etc. Other HP available.

Electrical Controls - Magnetic starters and push button stations; manual motor starters with overload protection, others.



OPERATIONAL SEQUENCE

1. Model "190 ZPA" is loaded at infeed end of conveyor. First load travels to Zone #1 and comes to rest against blade or roller stop, and depresses sensor roller "A", deactivating Zone #2.
2. Second load travels into Zone #2 and comes to rest over sensor roller "B" deactivating Zone #3.
3. The Model "190 ZPA" will continue to accumulate at "Zero" pressure until conveyor is fully loaded. NOTE: Zone #1 at discharge end is supplied with low pressure accumulation feature. If "ZERO" pressure zone is required, contact factory.
4. To unload, remove end load or lower roller stop which will advance second load into first zone and third load into second, etc.

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Bed Length	Overall Length	Belt Width	6"	6"	6"	6"	6"	
		Width Between Frames	15"	21"	27"	33"	39"	
		Overall Width	18"	24"	30"	36"	42"	
		Rollers on 3" Centers						
10'	13'	Weight (lbs.)	560	630	700	770	840	
15'	18'		780	890	1000	1200	1310	
20'	23'		960	1070	1180	1290	1400	
25'	28'		1150	1270	1390	1510	1630	
30'	33'		1320	1450	1580	1710	1840	
35'	38'		1550	1690	1830	1970	2110	
40'	43'		1720	1870	2020	2170	2320	
45'	48'		1950	2100	2250	2400	2550	
50'	53'		2120	2280	2440	2600	2760	
55'	58'		2310	2480	2650	2820	2990	
60'	63'		2480	2650	2820	2990	3160	
65'	68'		2690	2870	3050	3230	3410	
70'	73'		2890	3070	3250	3430	3610	
75'	78'		3080	3280	3480	3680	3880	
80'	83'		3250	3460	3670	3880	4090	
85'	88'		3460	3680	3900	4120	4340	
90'	93'		3630	3850	4070	4290	4510	
95'	98'	3850	4090	4330	4570	4810		

Load Capacity Chart 60 FPM

HP	Overall Frame Width 18" to 24" Total Load (lbs.)		Overall Frame Width 25" to 30" Total Load (lbs.)		Overall Frame Width 36" to 42" Total Load (lbs.)	
	Up to 50'	Up to 100'	Up to 50'	Up to 100'	Up to 50'	Up to 100'
1/2	1100	200	600	-	-	-
3/4	2200	1300	1700	500	1100	-
1	3300	2400	2800	1600	2200	-
1 1/2	5600	4600	5000	3800	4400	1900
2	7000	6000	6400	5200	5800	3300

