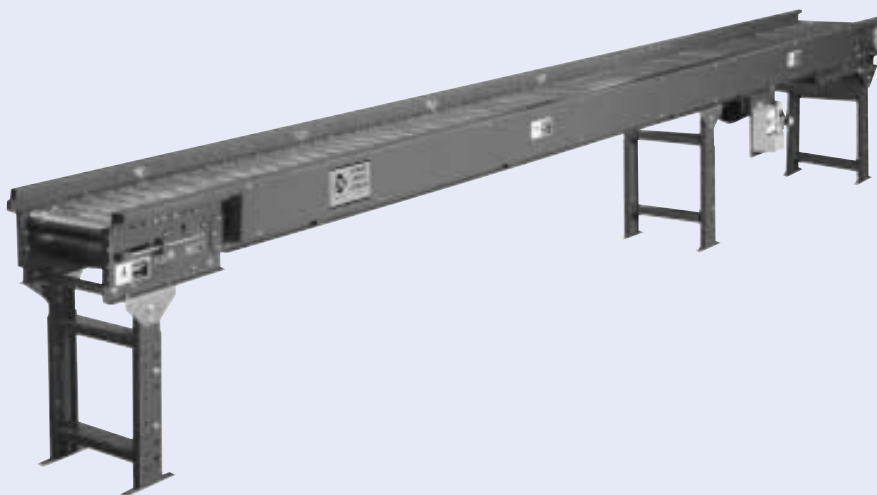


MODEL "190ABE"

Medium Duty Belt Driven Live Roller Accumulating Conveyor

- Zero pressure accumulation
- Air operated zones
- Easy installation
- Economical
- No mechanical sensor rollers



STANDARD SPECIFICATIONS

Driving Belt - Black PVC 120 belt.

Bed - Roller bed width between frames, 15", 21", 27", 33" and 39". 7" x 1½" x 12 gauge formed painted 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" or 6" 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.

Sensing Device - NEMA 1 photoelectric sensor in each zone detects presence of product and activates accumulation feature in the trailing zone if upstream zone is occupied.

Power Supply - 120 VAC power supply controls accumulation feature with 24 VDC output. Power supply will control 100 accumulation zones.

Air Requirements - Minimum 30 psi on main trunk line.

Accumulation Zones - 24", 30", or 36" long, air operated. Conveyor frame lengths change with zone lengths. NOTE: *Zone length must be evenly divisible by roller centers.*

Filter/Regulator - Supplied loose for mounting to conveyor side frame, with 3/8" NPT ports. 35 to 40 psi recommended operating pressure with free air consumption of .0062 cu. ft. per sensor operation.

Guard Rails - Built in guard rails. NOTE: *Product contact with guard rails will affect product flow.*

Tail Pulley - 4" diameter crowned with 1¾" diameter shaft.

Drive Pulley - 8" diameter crowned and fully lagged with 1¾" diameter shaft. Located at infeed end of conveyor.

Snub Roller - 2½" diameter adjustable mounted directly behind drive pulley, 2" diameter adjustable mounted directly behind tail pulley.

Return Idler - 1.9" diameter, adjustable, on 10'0" centers.

Floor Supports - Adjustable 31½" to 45½" from floor to top of roller. One support supplied at each end of conveyor and at each bed joint.

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 - ½ 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.

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".

Accumulation Zones - 18" long, air operated. Note: *Zone length must be evenly divisible by roller centers.*

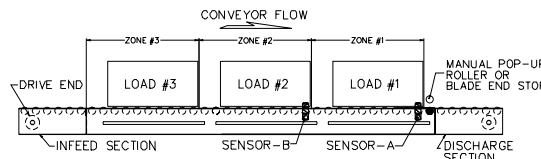
Slug Release - Allows for conveyor to be unloaded quickly when accumulation feature not required.

Ceiling Hangers - ½" 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 ABE" is loaded at infeed end of conveyor. The first load travels the entire length of the conveyor into Zone #1, comes to rest against a blade stop, roller stop or brake belt (all optional) and blocks photoelectric sensor in Zone #1. When the photoelectric sensor is blocked in Zone #1, driving force is removed from Zone #2. NOTE: Some type of stopping device must be used in Zone #1 to begin the accumulation process. Zone #1 at discharge end is supplied with "low" pressure accumulation. If "zero pressure" is required, optional pneumatic operated end zone is available.
2. The second load travels the length of the conveyor until it reaches Zone #2. If Zone #1 is occupied, the second load will coast into Zone #2, blocking the photoelectric sensor in Zone #2, removing the driving force from Zone #3. The conveyor will continue to accumulate at "zero pressure" until fully loaded.
3. To unload, the blocking device in Zone #1 must be removed, thereby conveying the first load down stream or off the conveyor. The second load will not advance to Zone #1 until the first load has completely cleared the photoelectric sensor in Zone #1. If the stopping device has been reactivated, the second load will come to rest against the stop or brake belt in Zone #1 and the accumulation process will begin again. Otherwise, the second load will be conveyed through Zone #1 without stopping.

MODEL "190ABE"

Bed Length	Overall Length	Belt Width					
		6"	6"	6"	6"	6"	
		15"	21"	27"	33"	39"	
		Overall Width	18"	24"	30"	36"	42"
		Rollers on 3" Centers					
10'	13'		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

For Weights other than 3" centers deduct the following:

6" Roller Centers	15" BF		21" BF		27" BF		33" BF		39" BF	
	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'
		-37	-74	-45	-90	-61	-122	-70	-140	-82

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

