

# MODEL "190CAP"

## Belt Driven Live Roller Accumulating Conveyor

- Accumulates tote pans, cartons, boxes, etc.
- Minimum back pressure



### STANDARD SPECIFICATIONS

**Driving Belt** - 8" wide for 15" and 21" between frames, 12" wide for 27" between frames, 16" wide for 33" and 39" between frames; black PVC 120 belt.

**Bed** - Roller bed width between rails, 15", 21", 27", 33", or 39". 7" x 1½" x 12 gauge powder painted formed steel channel frame, bolted together with butt couplings and floor supports.

**Tread Rollers** - 1.9" diameter x 16 gauge galvanized steel rollers spaced on 2¼", 3", 4½" 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 spaced on 6", 9" or 12" centers, cam adjusted.

**X-Bracing** - Frame Squaring device supplied on conveyors 40 feet and longer on every other bed section. X-bracing insures good product and belt tracking.

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

**Drive Pulley** - 8" diameter, crowned and fully lagged, with 1¾" diameter shaft.

**Snub Roller** - 2½" diameter adjustable, located directly behind drive pulley. 2" diameter at each end directly behind terminal pulleys.

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

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

**Take-Up** - Located in center drive, provides 24" of belt take-up.

**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.

**Belt Speed** - 60 FPM constant.

**Capacity** - 150 lbs. per foot. Not to exceed Load Capacity Chart.

### OPTIONAL EQUIPMENT

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

**Floor Supports** - Lower or higher supports available. Minimum elevation 20".

**Ceiling Hangers** - ½" diameter threaded rods 8 feet long with locking nuts and mounting hardware. Other lengths are available.

**Side Mounted Drive** - End drive mounted to side of conveyor bed section. Specify side. Minimum 9" elevation with 4" drive pulley, minimum 12" elevation with 8" drive pulley.

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

**Belt Speed** - Constant and variable belt speeds available.

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

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Bed Length	Overall Length	Belt Width		8"	8"	12"	16"	16"
		Width Between Frames		15"	21"	27"	33"	39"
		Overall Width		18"	24"	30"	36"	42"
<b>Rollers Spaced on 3" Centers</b>								
7'	10'	<b>Weight (lbs.)</b>		600	730	850	960	1070
12'	15'			790	932	1080	1200	1370
17'	20'			926	1100	1280	1420	1640
22'	25'			1090	1300	1520	1890	1950
27'	30'			1220	1470	1720	1970	2220
32'	35'			1380	1650	1940	2230	2520
37'	40'			1530	1840	2160	2480	2800
42'	45'			1680	2025	2380	2735	3070
47'	50'			1830	2210	2600	2990	3360
52'	55'			1980	2390	2820	3250	3650
57'	60'			2130	2580	3040	3500	3930
62'	65'			2290	2760	3260	3760	4220
67'	70'			2441	2950	3470	4010	4560
72'	75'			2590	3130	3690	4150	4710
77'	80'			2740	3310	3910	4500	5100
82'	85'			2890	3500	4130	4760	5360
87'	90'			3047	3680	4350	5040	5730
92'	95'			3200	3870	4570	5270	5940
97'	100'			3350	4050	4790	5530	6270

**For Weights other than 3" centers add/deduct the following:**

Roller Centers	15" BF		21" BF		27" BF		33" BF		39" BF	
	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'
2 1/4"	+16	+32	+21	+43	+26	+53	+31	+62	+37	+73
4 1/2"	-23	-45	-30	-60	-37	-75	-45	-90	-53	-105
6"	-45	-90	-60	-120	-75	-150	-90	-180	-105	-210

Driving force is adjustable through the use of a 7 position cam which raises and lowers each individual pressure roller. Each position of the cam is numbered so that once the desired driving force has been determined, all of the other cams can be easily set to the same driving position.

For minimum pressure accumulation, the driving force is set to convey the heaviest product. Product will then accumulate with approximately 2% back pressure depending on the footprint of the product.

## Load Capacity Chart

60 FPM

HP	Overall Frame Width 18" to 22" Total Load (lbs.)		Overall Frame Width 24" 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

