

# MODEL "190RB"

## Roller Bed Belt Conveyor

- Packing
- Inspecting
- Sorting
- Assembling
- Testing
- Transporting horizontally or on incline



### STANDARD SPECIFICATIONS

**Belt** - 12", 18", 24", 30", 36", 42" and 48" Black PVC 120 belt.

**Bed** - Roller bed with 1.9" diameter galvanized steel rollers. Rollers spaced on 6" centers. Rollers mounted in 7" deep x 12 gauge painted formed steel channel frames. Frames bolted together with butt couplings and floor supports.

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

**Drive Pulley** - 8" diameter crowned and fully lagged, 1<sup>7</sup>/<sub>16</sub>" shaft.

**Tail Pulley** - 4" diameter crowned supplied through 30" wide belts. 6" diameter crowned supplied for 36" and wider belts. 4" diameter pulley has 1<sup>3</sup>/<sub>16</sub>" diameter shaft; 6" diameter pulley has 1<sup>7</sup>/<sub>16</sub>" diameter shaft turned down on ends to 1<sup>3</sup>/<sub>16</sub>" diameter.

**Snub Roller** - 2<sup>1</sup>/<sub>2</sub>" diameter adjustable roller, located directly behind drive pulley, 2" diameter located behind tail pulley.

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

**Take-Up** - Located at tail end, provides 12" of belt take-up.

**Bearings** - Sealed-prelubricated with cast iron housings.

**Floor Supports** - Adjustable 31<sup>1</sup>/<sub>2</sub>" to 45<sup>1</sup>/<sub>2</sub>" from floor to top of belt. One support supplied at each end of conveyor and at each bed joint.

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

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

**Belt Speed** - 60 FPM constant.

**Capacity** - 200 pounds per foot maximum. Not to exceed Load Capacity Chart.

### OPTIONAL EQUIPMENT

**Belt** - Nitrile (white or black) with smooth top cover, Black PVC rough top, Brown Nitrile rough top. Special belts on application.

**Roller Centers** - 1.9" diameter galvanized steel rollers spaced on 3", 4<sup>1</sup>/<sub>2</sub>", 9" or 12" centers.

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

**Floor Supports** - Lower or higher than standard. Castored supports with 4" diameter or 6" diameter rigid or swivel casters.

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

**Nose-Over** - Adjustable single or double nose-over provides smooth transfer from incline to horizontal. See drawing on page 96 for details.

**Side Mounted Drive** - End drive mounted to side of conveyor section. Specify side. Minimum elevation - 10".

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

**Auxiliary Take-Up** - Mounted below conveyor bed section. Can be placed most anywhere in conveyor length.

**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.

**Power Feeder** - Separate belt section with (2) MD-6 (28<sup>1</sup>/<sub>2</sub>" to 42<sup>1</sup>/<sub>2</sub>" adjustable) supports. Feeder driven by roller chain from main conveyor. Auxiliary take-up required on inclined conveyor. Integral feeder available.

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Bed Length	Overall Length	Belt Width	12"	18"	24"	30"	36"	42"	48"
		Bed Width	15"	21"	27"	33"	39"	45"	51"
		Overall Width	18"	24"	30"	36"	42"	48"	54"
<b>Rollers Spaced on 6" Centers</b>									
5'	8'	<b>Weight (lbs.)</b>	290	330	370	410	450	500	540
10'	13'		370	440	500	560	620	670	740
15'	18'		460	540	610	690	770	870	960
20'	23'		550	660	750	850	950	1070	1190
25'	28'		650	780	890	1010	1140	1290	1420
30'	33'		750	900	1040	1180	1330	1500	1660
35'	38'		820	990	1150	1310	1490	1670	1880
40'	43'		940	1146	1320	1500	1700	1930	2140
45'	48'		1060	1280	1480	1680	1900	2160	2400
50'	53'		1150	1380	1610	1830	2070	2360	2620
55'	58'		1260	1520	1770	2020	2280	2690	2880
60'	63'		1350	1640	1900	2170	2460	2800	3110
65'	68'		1450	1770	2050	2350	2650	3020	3360
70'	73'		1550	1880	2200	2500	2830	3230	3590
75'	78'		1660	2003	2350	2680	3030	3450	3840
80'	83'		1750	2130	2480	2830	3210	3660	4070
85'	88'		1860	2270	2640	3010	3410	3892	4350
90'	93'		1950	2380	2770	3160	3590	4080	4550
95'	98'		2060	2510	2930	3340	3790	4320	4800
100'	103'	2150	2630	3663	3500	3960	4520	5040	

For Weights Other Than 6" Centers, Add Or Deduct														
Roller Centers	15" B.F.		21" B.F.		27" B.F.		33" B.F.		39" B.F.		45" B.F.		51" B.F.	
	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'
3"	+30	+60	+40	+80	+50	+100	+60	+120	+70	+140	+80	+160	+90	+180
4 1/2"	+15	+30	+20	+40	+25	+50	+30	+60	+35	+70	+40	+80	+45	+90
9"	-12	-13	-16	-24	-20	-30	-14	-36	-18	-42	-32	-48	-36	-54
12"	-15	-28	-20	-40	-25	-50	-30	-60	-35	-70	-40	-80	-45	-90

## 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 53'	Up to 103'	Up to 53'	Up to 103'	Up to 53'	Up to 103'
1/2	2400	1700	2100	1100	1600	250
3/4	3600	3000	3400	2500	2900	1700
1	4600	4100	4300	3600	4000	2800
1 1/2	6500	6000	6200	5500	5900	4900
2	7800	7400	7600	7000	7300	6400

