

# Automated Conveyor Systems, Inc.



**We take the load off!**



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# MODEL "LPB"

## Medium Duty Slider Bed Conveyor



- Packing
- Inspecting
- Sorting
- Assembly
- Testing
- Transporting

### STANDARD SPECIFICATIONS

- Belt** - 8", 12", 18", 20", 24" and 30" Black PVC 120 belt.
- Bed** - 12 gauge powder painted formed steel, 4" deep. Bed sections are 5 feet and 10 feet long bolted together with splice plates and floor supports.
- Tail Pulley** - 4" diameter crowned with 1<sup>3</sup>/<sub>16</sub>" diameter shaft.
- Drive Pulley** - 4" diameter and 8" diameter crowned and fully lagged. 4" diameter pulley with 1<sup>3</sup>/<sub>16</sub>" diameter shaft, 8" diameter pulley with 1<sup>7</sup>/<sub>16</sub>" diameter shaft.
- Snub-Roller** - 2" diameter for 4" diameter pulley, 2<sup>1</sup>/<sub>2</sub>" diameter for 8" diameter pulley.
- Return Roller** - 1.9" diameter adjustable on 10'0" centers.
- Floor Supports** - Adjustable 28<sup>1</sup>/<sub>2</sub>" to 42<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.
- Take-Up** - 6" long screws located at tail pulley to tighten belt.
- 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.
- Belt Speed** - 60 FPM constant.
- Capacity** - Maximum load per lineal foot of conveyor - 75 lbs. 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.
- Side Tables** - 10", 16" or 22" wide formed steel side tables provide 12", 18" or 24" work area. Tables are supported by angles bolted to bed section.
- Guard Rails** - Adjustable channel, continuous channel, or solid steel guard rails available.
- Floor Supports** - Lower or higher than standard. Castered 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.
- Gravity Conveyor Brackets** - Adjustable bracket with 1<sup>3</sup>/<sub>8</sub>" diameter pop-out roller for attaching wheel or roller conveyor.
- Nose-Over** - Adjustable single or double nose-over provides smooth transfer from incline to horizontal. See drawing on page 96 for details.
- Center Drive** - Mounted below conveyor bed section. Can be placed most anywhere in conveyor length.
- Side Mounted Drive** - End drive mounted to side of conveyor section. Specify side. Minimum 6" elevation with 4" drive pulley, minimum 9" elevation with 8" drive pulley.
- Overhead Drive** - End drive mounted above conveyor. Specify clearance required.
- 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.

# MODEL "LPB"



Bed Length	Overall Length	Diameter Drive Pulley	Belt Width	8"	12"	18"	20"	24"	30"
			Bed Width	12"	16"	22"	24"	28"	34"
Bed			12 Gauge Formed Steel Bed						
5'	5'10"	4"	Weight (lbs.)	252	272	315	343	366	389
10'	10'10"	4"		286	314	382	397	422	447
15'	15'10"	4"		343	380	475	494	528	562
20'	20'10"	4"		377	422	542	565	607	649
25'	25'10"	4"		434	488	635	662	713	764
30'	30'10"	4"		468	530	702	733	792	851
35'	35'10"	4"		525	596	795	830	898	966
40'	40'10"	4"		559	638	862	901	977	1053
45'	45'10"	4"		616	704	955	998	1083	1168
50'	50'10"	4"		655	753	1032	1081	1176	1271
55'	56' 2"	8"	Weight (lbs.)	712	819	1125	1178	1282	1386
60'	61' 2"	8"		746	861	1192	1249	1351	1453
65'	66' 2"	8"		803	927	1285	1346	1457	1568
70'	71' 2"	8"		839	971	1364	1420	1549	1678
75'	76' 2"	8"		896	1037	1457	1517	1655	1793
80'	81' 2"	8"		930	1079	1514	1588	1734	1880
85'	86' 2"	8"		987	1145	1607	1685	1840	1995
90'	91' 2"	8"		1021	1187	1673	1756	1920	2084
95'	96' 2"	8"		1078	1253	1766	1853	2026	2199
100'	101' 2"	8"		1112	1295	1833	1924	2105	2286

## Load Capacity Chart

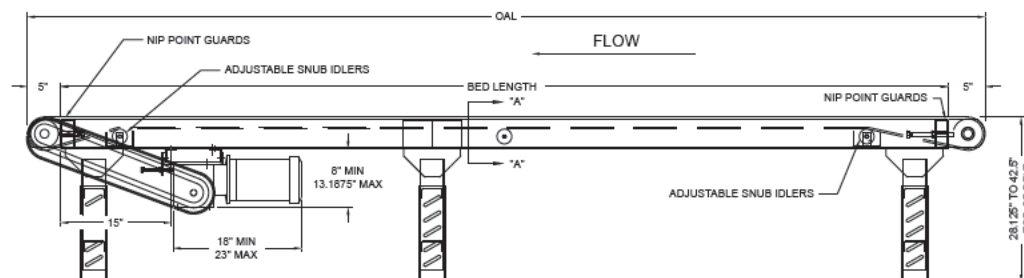
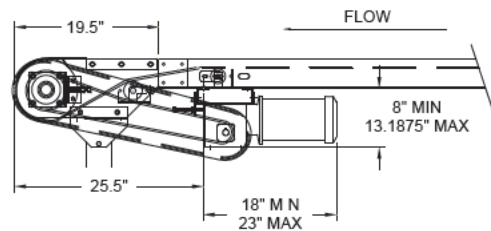
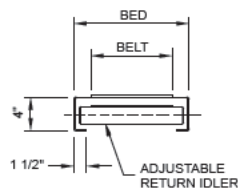
60 FPM	
HP	TOTAL LOAD
1/2	435 lbs.
3/4	650 lbs.
1	810 lbs.

NOTE: 1 HP Max. for this model

\*For minimum OAL, contact factory.



8" DIAMETER END DRIVE



# MODEL "HPB"

## Heavy Duty Slider Bed Conveyor



- Packing
- Inspecting
- Sorting
- Transporting
- Assembling
- Testing

### STANDARD SPECIFICATIONS

**Belt** - 12", 14", 18", 24", 30" and 36" Black PVC 120 belt.

**Bed** - 12 gauge powder painted formed steel, 6½" deep. Bed sections are 5 feet and 10 feet long bolted together with splice plates and floor supports.

**Tail Pulley** - 4" diameter for belt widths through 30" wide. 6" diameter for 36" and wider belts. 4" diameter pulley has 1¾" diameter shaft, 6" diameter pulley has 1⅞" diameter shaft turned down on ends to 1¾" diameter.

**Drive Pulley** - 8" diameter crowned and fully lagged with 1⅞" diameter shaft.

**Snub Roller** - 2½" diameter directly behind drive pulley; 2" diameter at tail pulley.

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

**Floor Supports** - Adjustable 31" to 45" from floor to top of belt. One support supplied at each end of conveyor and at each bed joint.

**Take-Up** - 6" long screws located at tail pulley to tighten belt.

**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** - Maximum load per lineal foot of conveyor - 100 lbs. 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.

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

**Gravity Conveyor Brackets** - Adjustable bracket with 1⅜" diameter pop-out roller for attaching wheel or roller conveyor.

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

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

**Side Mounted Drive** - End drive mounted to side of conveyor section. Specify side. Minimum elevation - 9".

**Overhead Drive** - End drive mounted above conveyor. Specify clearance required.

**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.

# MODEL "HPB"

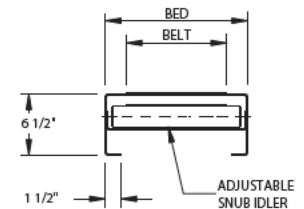


Bed Length	Overall Length	Belt Width Bed Width	12"	14"	18"	24"	30"	36"
			18"	20"	24"	30"	36"	42"
5'	7'	Weight (lbs.)	355	370	396	425	455	490
10'	12'		401	450	485	525	565	605
15'	17'		487	558	615	675	736	802
20'	22'		533	638	704	775	846	917
25'	27'		619	746	834	925	1017	1115
30'	32'		665	826	923	1025	1127	1230
35'	37'		751	934	1053	1175	1298	1427
40'	42'		797	1014	1142	1275	1408	1542
45'	47'		883	1122	1272	1425	1579	1740
50'	52'		929	1202	1361	1525	1689	1855
55'	57'		1015	1310	1491	1675	1860	2052
60'	62'		1061	1390	1580	1755	1970	2167
65'	67'		1147	1498	1710	1925	2141	2365
70'	72'		1193	1578	1799	2025	2251	2480
75'	77'		1279	1686	1929	2175	2422	2677
80'	82'		1325	1766	2018	2275	2532	2792
85'	87'		1411	1874	2148	2425	2703	2990
90'	92'		1457	1954	2237	2525	2813	3105
95'	97'		1543	2062	2367	2675	2984	3302
100'	102'		1589	2142	2456	2775	3094	3417
105'	107'		1675	2250	2586	2925	3265	3615
110'	112'		1721	2330	2675	3025	3375	3730
115'	117'		1807	2438	2805	3175	3546	3927
120'	122'		1853	2518	2894	3275	3656	4042
125'	127'		1939	2626	3024	3425	3777	4240
130'	132'		1985	2706	3113	3525	3937	4355

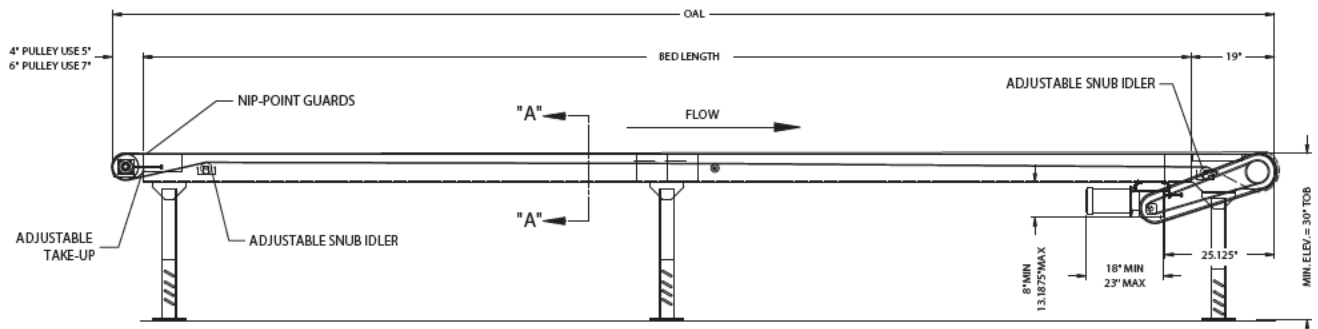
## Load Capacity Chart

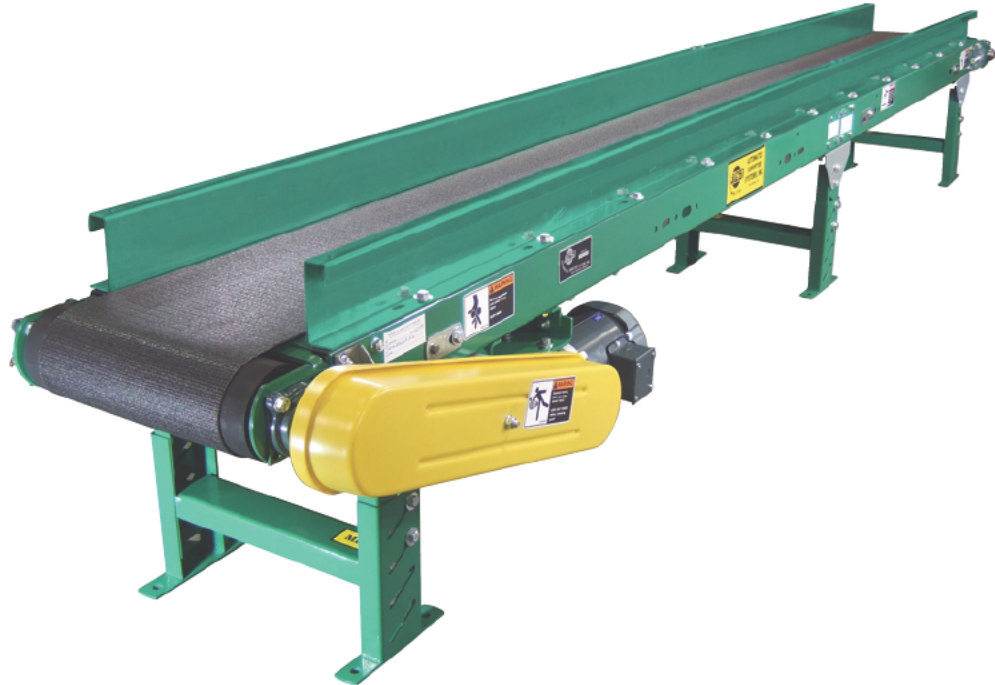
60 FPM	
HP	TOTAL LOAD
1/2	435 lbs.
3/4	650 lbs.
1	810 lbs.
1 1/2	1080 lbs.
2	1300 lbs.

\*For minimum OAL, contact factory.



VIEW "A-A"





- Conveys boxes, bags, cases, loose parts
- Built-in guard rails allow overhead conveying

## STANDARD SPECIFICATIONS

**Belt** - 8", 12", 18", 20", 24" and 30" Black PVC 120 belt.

**Bed** - 12 gauge powder painted formed steel with 2½" high vertical sides bolted to top of bed. Standard sections are 5 and 10 feet long bolted together with floor supports and splice plates.

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

**Drive Pulley** - 4" diameter and 8" diameter crowned and fully lagged. 4" diameter pulley with 1¾" diameter shaft, 8" diameter pulley with 1⅞" diameter shaft.

**Snub-Roller** - 2" diameter for 4" diameter pulley, 2½" diameter for 8" diameter pulley.

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

**Floor Supports** - Adjustable 28½" to 42½" from floor to top of belt. One support supplied at each end of conveyor and at each bed joint.

**Take-Up** - 6" long screws located at tail pulley to provide belt tension.

**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** - Maximum load per lineal foot of conveyor - 75 pounds. 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.

**Guard Rail** - Higher than 2½" vertical sides, 4", 6", 9", to 12" max.

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

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

**Gravity Conveyor Brackets** - Adjustable bracket, with 1⅜" diameter

pop-out roller, for attaching wheel or roller conveyor.

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

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

**Side Mounted Drive** - End drive mounted to side of conveyor section. Specify side. Minimum 6" elevation with 4" drive pulley, minimum 9" elevation with 8" drive pulley.

**Overhead Drive** - End drive mounted above conveyor. Specify clearance required.

**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.

**Hugging Strip** - Steel bars each side bolt to guard rail to prevent material from getting under belt. Must be used with a solid guard rail.

**Troughing Attachment** - Steel bars each side under belt form trough for handling loose material.

# MODEL "TSB"

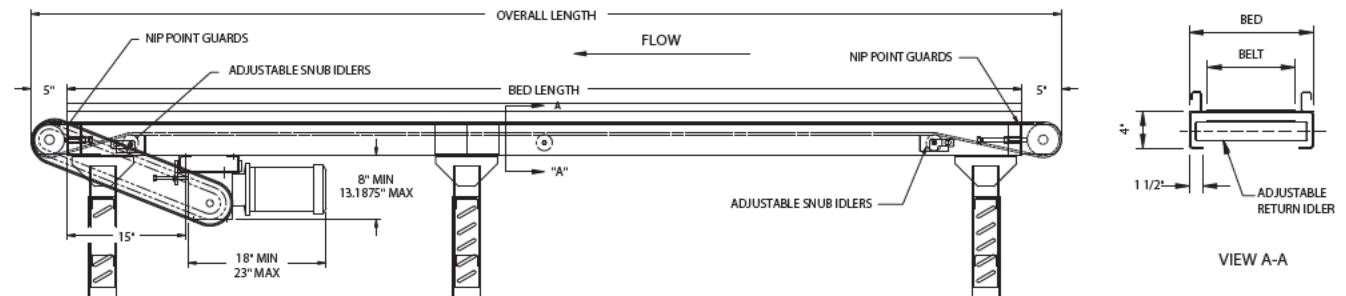
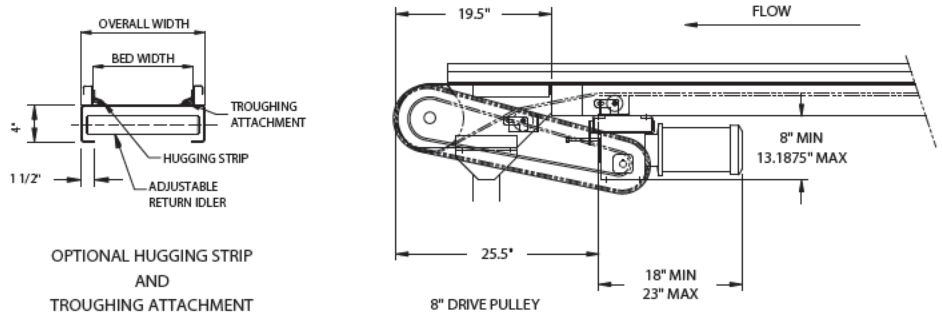


Bed Length	Overall Length	Diameter Drive Pulley	Belt Width						
			8"	12"	18"	20"	24"	30"	
			Overall Width	12"	16"	22"	24"	28"	34"
			Bed Width	9"	13"	19"	21"	25"	31"
5'	5'10"	4"	Weight (lbs.)	270	290	335	360	380	410
10'	10'10"	4"		320	350	415	430	450	480
15'	15'10"	4"		390	425	520	535	570	605
20'	20'10"	4"		445	490	558	580	625	695
25'	25'10"	4"		520	570	650	680	735	820
30'	30'10"	4"		570	630	730	755	820	920
35'	35'10"	4"		621	700	810	850	920	1030
40'	40'10"	4"		695	780	890	935	1020	1140
45'	45'10"	4"		750	835	980	1020	1120	1250
50'	50'10"	4"		825	920	1070	1120	1220	1370
55'	56' 2"	8"	Weight (lbs.)	880	995	1160	1215	1320	1480
60'	61' 2"	8"		950	1070	1248	1303	1420	1590
65'	66' 2"	8"		1000	1130	1325	1390	1520	1705
70'	71' 2"	8"		1080	1220	1420	1490	1620	1825
75'	76' 2"	8"		1130	1280	1504	1575	1720	1935
80'	81' 2"	8"		1205	1360	1590	1665	1818	2048
85'	86' 2"	8"		1255	1420	1670	1752	1920	2155
90'	91' 2"	8"		1330	1500	1755	1840	2035	2325
95'	96' 2"	8"		1380	1560	1835	1925	2135	2433
100'	101' 2"	8"		1460	1640	1920	2015	2204	2485

## Load Capacity Chart

60 FPM	
HP	TOTAL LOAD
1/2	435 lbs.
3/4	650 lbs.
1	810 lbs.

NOTE: 1 HP Max. for this model







- **Adjustable floor supports**
- **Incline to 15°**
- **Guard rails**
- **Economical**

### STANDARD SPECIFICATIONS

**Bed** - 5½" deep x 14 gauge powder painted formed steel channel frame. Bed sections are 10 feet and 5 feet long, bolted together with splice plates and floor supports.

**Belt** - 12", 18", 24", 30", 36", 42" and 48" wide, black PVC 90, FS top side, brushed bottom side, with clipper lacing.

**Guard Rail** - 6" high x 16 gauge formed, powder painted steel on both sides, full length of bed sections.

**Underside Guards** - Formed 16 gauge pans full length of bed sections, removable, secured with TEK screws.

**Tail Pulley** - 4" or 6" diameter (see chart) crowned with 1¾" diameter shaft.

**Drive Pulley** - 4", 6" and 8" diameter crowned and fully lagged. 4" and 6" diameter pulleys have 1¾" diameter shaft, 8" diameter pulley has 1⅞" diameter shaft.

**Snub-Roller** - 2" diameter for 4" and 6" diameter pulleys, 2½" diameter for 8" diameter pulley.

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

**Floor Supports** - Adjustable 30" to 44" from floor to top of belt. One floor support provided at each end of conveyor and at each bed joint.

**Take-Up** - 6" long screws located at tail pulley to provide belt tension.

**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.

**Capacity** - 10 pounds per foot maximum live load. See Load Capacity Chart.

### OPTIONAL EQUIPMENT

**Guard Rails** - 12", 18", or 24" high; vertical or 30 degree flare, for one or both sides.

**Floor Supports** - Higher than standard supports available to 121".

**Ceiling Hangers** - ½" diameter threaded rods, 8 feet long with locking nuts and mounting hardware.

**Nose-Over** - Fixed single nose-over at 10, 12½ or 15 degrees. Adjustable nose-over roller for belt tracking.

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

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

**Side Mounted End Drive** - Mounted to side of conveyor bed. Minimum elevations: 4" pulley - 7½", 6" pulley - 8½", 8" pulley - 10½". Specify side.

**Two Pulley Hitch** - For transferring material from horizontal to incline section.

**Inline Transfer Unit** - For transferring material from one horizontal conveyor to another.

**Belt** - #100 PVC rough top belt for incline applications.

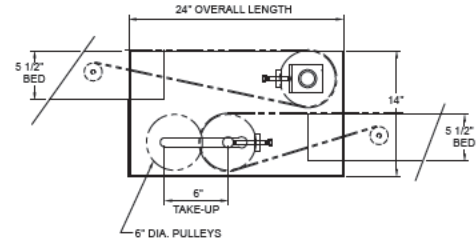
**Belt Speed** - 45, 75, 90 and 120 FPM. Please specify.

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

# MODEL "SBT"



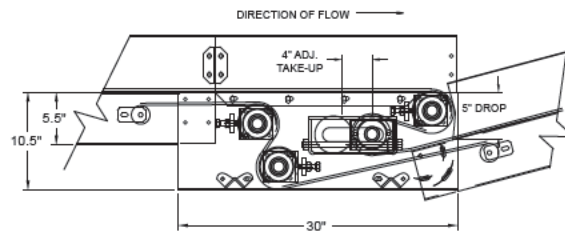
MODEL SBT - WEIGHTS							
<b>Belt Width</b>	12"	18"	24"	30"	36"	42"	48"
<b>Bed Width</b>	14"	20"	26"	32"	38"	44"	50"
<b>Drive Pulley Dia.</b>	4"	4"	4"	6"	6"	8"	8"
<b>Tail Pulley Dia.</b>	4"	4"	4"	6"	6"	6"	6"
<b>10'0" OAL</b>	723	858	993	1125	1260	1510	1650
<b>Per Foot</b>	25	28	32	37	42	47	51



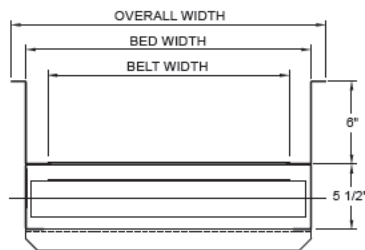
N-LINE TRANSITION UNIT

## Load Capacity Chart

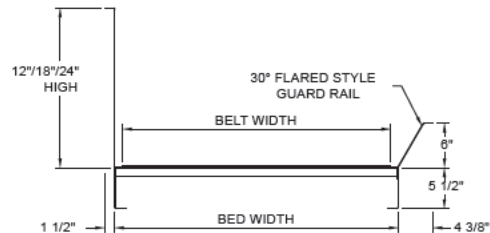
60 FPM	
HP	TOTAL LOAD
1/2	435 lbs.
3/4	650 lbs.
1	810 lbs.
1 1/2	1080 lbs.
2	1300 lbs.



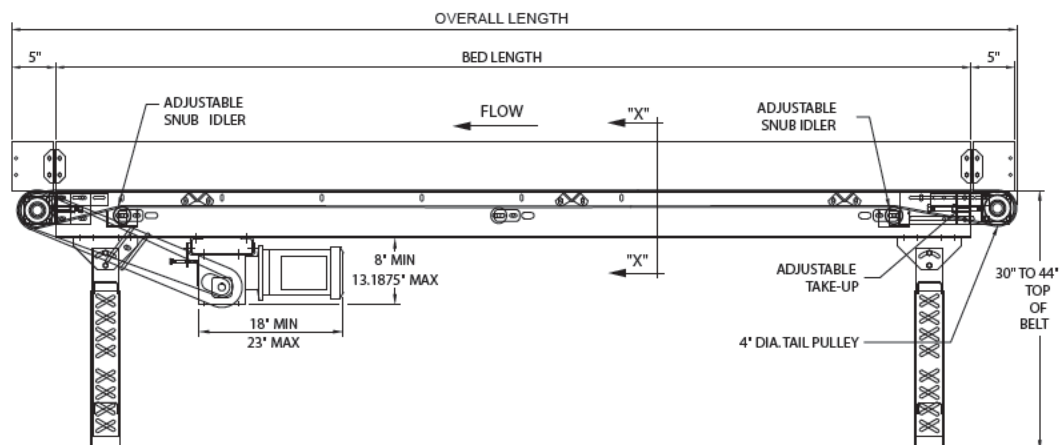
4 PULLEY INCLINE HITCH



SECTION VIEW "X-X"  
STANDARD ARRANGEMENT



GUARD RAIL OPTIONS



# 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 powder 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 7/16" 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 3/16" diameter shaft; 6" diameter pulley has 1 7/16" diameter shaft turned down on ends to 1 3/16" diameter.

**Pop-Out Roller** - 1.9" diameter roller, located at drive pulley and tail pulley.

**Snub Roller** - 2 1/2" 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 1/2" to 45 1/2" 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 1/2", 9" or 12" centers.

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

**Floor Supports** - Lower or higher than standard. Castered 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 1/2" to 42 1/2" adjustable) supports. Feeder driven by roller chain from main conveyor. Auxiliary take-up required on inclined conveyor. Integral feeder available.

# MODEL "190RB"



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

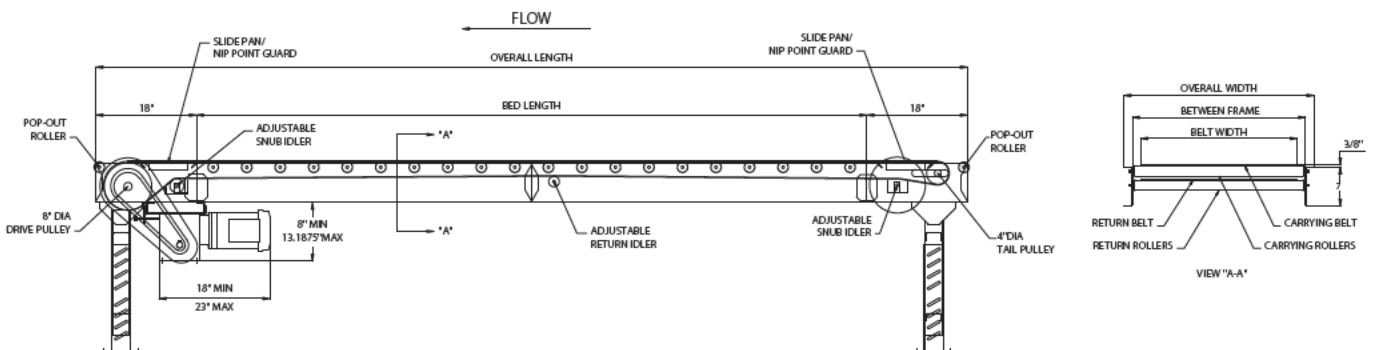
### For Weights Other Than 6" Centers, Add Or Deduct

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



# MODEL "190RBW"

## Roller Bed Wire Mesh Belt Conveyor



- **Drying operations**
- **Wet or oily products**
- **Hot or cold parts from ovens or freezers**
- **One direction operation**

### STANDARD SPECIFICATIONS

**Belt Width** - 12", 18", 24" and 36" wide, 1/2"x1" flat wire belt.

**Bed** - 1.9" diameter rollers mounted on 6" centers in 6 1/2" deep x 12 gauge powder painted formed channel, bolted together with splice plates and supports.

**Drive Sprockets** - 6" pitch diameter cast iron sprockets machined for 1 3/16" diameter shaft.

**Tail Pulley** - 4" diameter with 4" pitch diameter cast iron sprockets on each end of pulley, 1 3/16" diameter shaft.

**Snub Roller** - Adjustable 2" diameter roller located directly behind drive sprockets and tail sprockets.

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

**Take-Up** - 6" long screws located at tail pulley to tighten belt.

**Bearings** - Sealed and prelubricated with heavy duty housing.

**Floor Supports** - Adjustable 31" to 45" 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** - Maximum load per linear foot of conveyor - 75 pounds. Not to exceed Load Capacity Chart.

### OPTIONAL EQUIPMENT

**Belt** - 1/2" x 1/2" flat wire, galvanized, stainless steel. Others.

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

**Floor Supports** - Lower or higher supports available.

**Ceiling Hangers** - 1/2" 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. Specify side. Minimum elevation - 10".

**Overhead Drive** - End drive mounted above conveyor. Specify clearance required.

**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.

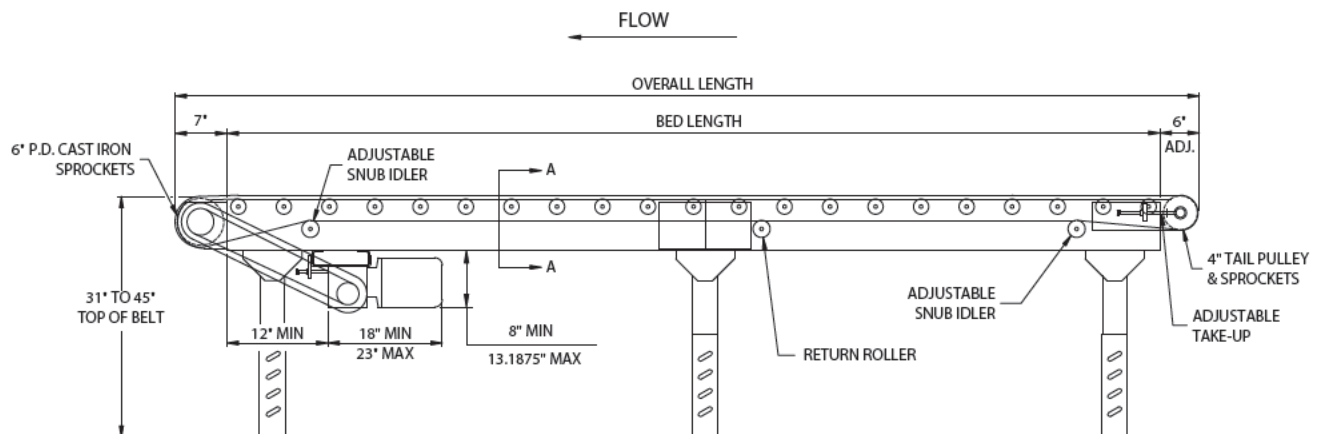
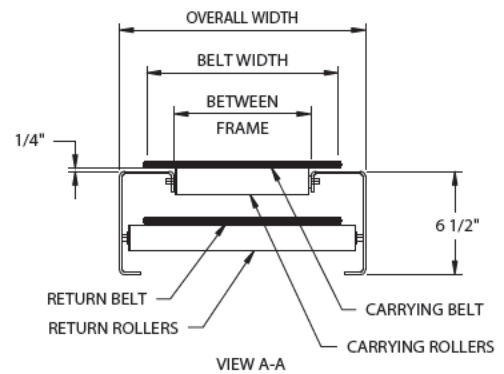
# MODEL "190RBW"



Bed Length	Overall Length	Between Frames				
		Belt Width	8"	14"	20"	32"
		Bed Width	12"	18"	24"	36"
5'	6'1"		299	320	365	431
10'	11'1"		368	413	465	562
15'	16'1"	Weight (lbs.)	461	523	593	725
20'	21'1"		530	605	693	856
25'	26'1"		623	715	821	1019
30'	31'1"		692	800	921	1150
35'	36'1"		773	943	1035	1297
40'	41'1"		854	990	1149	1444
45'	46'1"		939	1045	1270	1602
50'	51'1"		1023	1195	1391	1759
55'	56'1"		1104	1290	1500	1896
60'	61'1"		1185	1385	1609	2033
65'	66'1"		1270	1487	1736	2201
70'	71'1"		1355	1590	1862	2369
75'	76'1"		1436	1685	1976	2516
80'	81'1"		1517	1785	2090	2663
85'	86'1"		1598	1880	2205	2811
90'	91'1"		1679	1975	2319	2959
95'	96'1"		1760	2072	2433	3106
100'	101'1"		1841	2170	2547	3253

## Load Capacity Chart

60 FPM	
HP	TOTAL LOAD
1/2	1300 lbs.
3/4	2000 lbs.
1	2500 lbs.



# MODEL "138CAP"

## Belt Driven Live Roller Accumulating Conveyor

- Accumulates light boxes, tote bins, baskets, etc.
- Minimum back pressure
- Economical



### STANDARD SPECIFICATIONS

**Driving Belt** - 4" wide Black PVC 120 belt.

**Bed** - Roller bed width between frames, 10", 13", 16" and 22".  
5 1/2" x 1 1/2" x 12 gauge powder painted formed steel channel frame, bolted together with butt couplings and floor supports.

**Tread Rollers** - 1 3/8" diameter x 18 gauge galvanized tread rollers with 5/16" hex shafts on 1 1/2" and 3" centers. Safety pop-out design prevents damage to product or harm to personnel if caught between belt and tread rollers.

**Pressure Rollers** - 1 3/8" diameter x 18 gauge galvanized pressure rollers with 5/16" hex shafts on 6" centers.

**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 1 3/16" shaft.

**Drive Pulley** - 4" diameter crowned and fully lagged, with 1 3/16" diameter shaft. Located at infeed end of conveyor.

**Snub Roller** - 2" diameter adjustable, located directly behind drive and tail pulley.

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

**Floor Supports** - 30" to 44" adjustable from floor to top of rollers. One support supplied at each end of conveyor and at each bed joint.

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

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

**Speed Reducer** - Heavy duty worm gear reducer.

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

**Belt Speed** - 60 FPM constant.

**Capacity** - 100 pounds per foot. Not to exceed Load Capacity Chart.

### OPTIONAL EQUIPMENT

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

**Side Mounted Drive** - End drive mounted to side of conveyor section. Specify side. Minimum elevation - 8".

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

**Floor Supports** - Lower or higher supports available.

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

**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.

# MODEL "138CAP"



Bed Length	Overall Length	Belt Width				
		4"				
		Width Between Frames	10"	13"	16"	22"
		Overall Width	13"	16"	19"	25"
		Rollers Spaced on 3" Centers				
7'	10'	Weight (lbs.)	400	425	445	480
12'	15'		535	555	580	610
17'	20'		545	650	670	710
22'	25'		750	770	790	830
27'	30'		840	870	885	925
32'	35'		950	970	990	1040
37'	40'		1055	1085	1100	1150
42'	45'		1160	1180	1205	1250
47'	50'		1265	1290	1310	1350
52'	55'		1370	1390	1415	1455
57'	60'		1480	1500	1520	1550
62'	65'		1580	1605	1625	1670
67'	70'		1690	1710	1730	1775
72'	75'		1800	1820	1835	1880
77'	80'		1910	1925	1945	1990
82'	85'		2010	2120	2130	2160
87'	90'		2170	2180	2190	2200
92'	95'		2210	2230	2250	2295
97'	100'		2320	2350	2380	2400

**For Weights on other than 3" centers adjust as follows:**

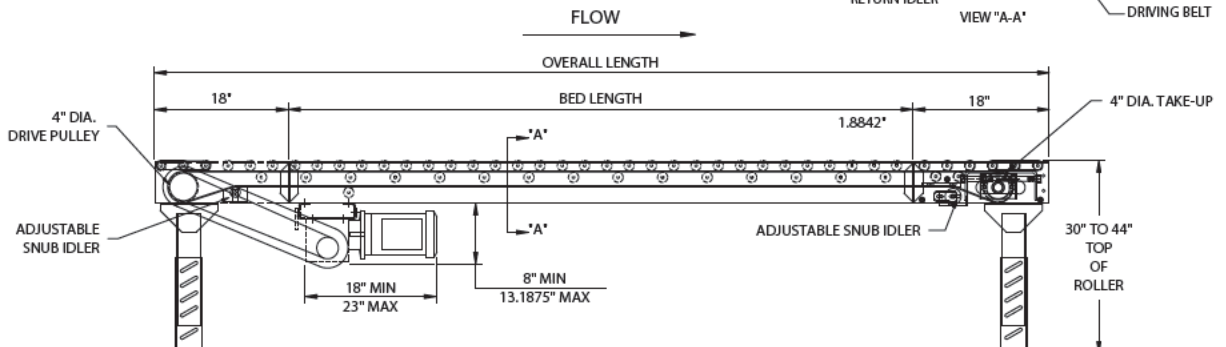
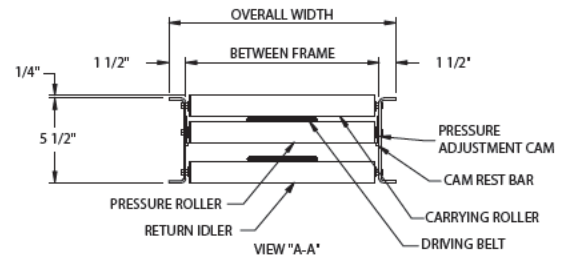
Roller Centers	10" BF		13" BF		16" BF		22" BF	
	5'	10'	5'	10'	5'	10'	5'	10'
1 1/2"	+30	+60	+45	+90	+45	+90	+52	+104

Driving force is adjustable through the use of a 9 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	TOTAL LOAD
1/2	1300 lbs.
3/4	2000 lbs.
<b>NOTE: 3/4 H.P. Maximum. Above 3/4 H.P. use Model "190CAP"</b>	





# 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.

# MODEL "190CAP"



Bed Length	Overall Length	Belt Width		6	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:**

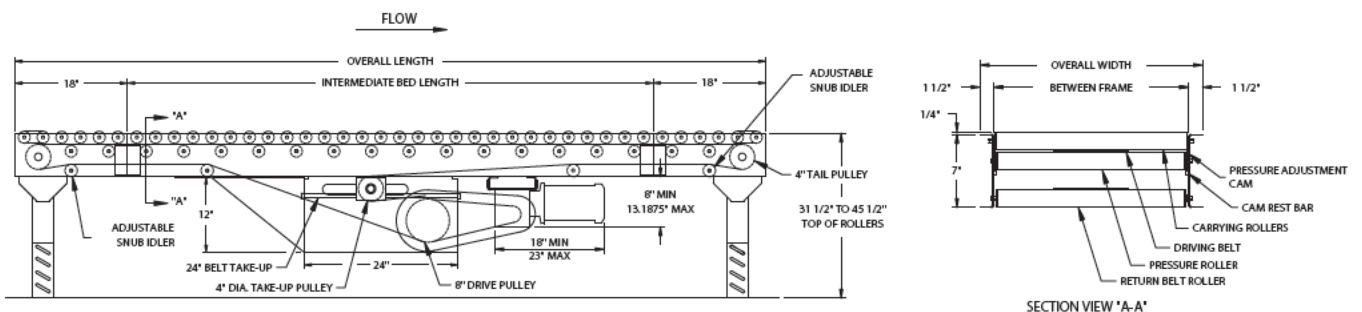
Roller Centers	15" BF		21" BF		27" BF		33" BF		39" BF	
	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'
2 1/4"	+16	+32	+21	+43	+26	+53	+31	+62	+37	+73
4 1/2"	-23	-45	-30	-60	-37	-75	-45	-90	-53	-105
6"	-45	-90	-60	-120	-75	-150	-90	-180	-105	-210

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



# MODEL "251 and 267CAP"

## Heavy Duty Belt Driven Live Roller Conveyor



- **Heavy duty conveying**
- **Limited accumulation**
- **Rugged design**
- **Easy installation & adjustment**

### STANDARD SPECIFICATIONS

**Driving Belt** - Black PVC 120 belt.

**Bed** - Roller bed width between frames 27", 33", 39", 45", 51", 57", and 61". 7½" x 1½" x 7 gauge powder painted formed steel channel frame bolted together with butt couplings and floor supports.

**Tread Rollers** - 2½" diameter x 11 gauge or 2⅝" diameter x 7 gauge, adjustable, both with 1⅛" hex shaft mounted on 3", 4" or 6" centers. Safety pop-out design prevents damage to product or harm to personnel if caught between belt and tread rollers.

**Pressure Rollers** - 2" diameter x 12 gauge steel pressure rollers. Spaced every 6", 8" or 12" centers.

**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.

**Tail Pulley** - 8" diameter crowned with 1⅞" diameter shaft.

**Drive Pulley** - 12" diameter crowned and fully lagged with 1⅝" diameter shaft.

**Snub Roller** - 2½" diameter adjustable.

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

**Floor Supports** - Adjustable 27¾" to 37½" (HD-6) on 5'0" centers with knee braces.

**Take-Up** - Located in center drive, provides 12" of belt takeup.

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

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

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

**Conveyor Speed** - 30 FPM constant

**Capacity** - 450 pounds per foot maximum. Not to exceed Load Capacity Chart.

### OPTIONAL EQUIPMENT

**Drive Pulley** - 16" diameter crowned and fully lagged with 2⅝" diameter shaft.

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

**Floor Supports** - Lower or higher supports available. Minimum elevation 23" with 12" drive pulley and 25" with 16" 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.

# MODEL "251 and 267CAP"



## "251 CAP" weights

## "267 CAP" weights

Overall Length	Belt Width	16"	20"	20"	24"	24"	30"	30"
	Width Between Frames	27"	33"	39"	45"	51"	57"	61"
	Overall Width	30"	36"	42"	48"	54"	60"	64"
Rollers on 3" Centers								
14'	Weight (lbs.)	2320	2660	2950	3390	3680	3850	4250
19'		2880	3200	3560	4000	4330	4800	5270
24'		3220	3710	4140	4630	5060	5640	6120
29'		3700	4240	4750	5300	5810	6480	7090
34'		4180	4760	5340	5960	6550	7330	7940
39'		4700	5270	5930	6630	7280	8170	8890
44'		5130	5790	6380	7240	7530	8480	9680
49'		5530	6310	7010	7960	8770	9760	10500
54'		5930	6820	7610	8540	9370	10570	11480
59'		6280	7350	8300	9290	10160	11500	12600
64'		6780	7850	8810	9900	10970	12130	13510
69'		7320	8310	9390	10620	11620	13120	14420
74'		7750	8810	10000	11240	12430	14030	15520
79'		8180	9350	10660	11950	13190	14900	16610
84'		8710	9850	11350	12540	13930	15690	17700
89'		9230	10350	12080	13060	14640	16520	18780
99'		9780	10810	12810	13680	15330	17300	19890

Overall Length	Belt Width	16"	20"	20"	24"	24"	30"	30"
	Width Between Frames	27"	33"	39"	45"	51"	57"	61"
	Overall Width	30"	36"	42"	48"	54"	60"	64"
Rollers on 3" Centers								
14'	Weight (lbs.)	2520	3030	3260	3630	4060	4510	5157
19'		3120	3550	3610	4450	5000	5680	6411
24'		3600	3930	4130	4910	5970	6750	7635
29'		4110	4770	4870	6000	6800	7814	8900
34'		4660	5380	5500	6780	7710	8890	10060
39'		5250	5980	6120	7670	8610	10262	11300
44'		5750	6590	6750	8300	9030	11766	12410
49'		6220	7200	7480	9140	10450	11990	13530
54'		6690	7810	8010	9840	11210	13020	14820
59'		6990	8420	8640	10610	12170	14170	16240
64'		7680	9010	9250	11440	13150	15030	17530
69'		8290	9560	9820	12280	13970	16440	18670
74'		8790	10150	10430	13020	14150	17380	20060
79'		9290	10780	11180	13850	15880	18470	21470
84'		9890	11370	11700	14550	16790	19480	22850
89'		10480	11960	12300	15200	17670	20540	24250
99'		11170	12510	12870	15940	18530	21540	25660

### "251 CAP" — For Weights other than 3" centers deduct the following:

Roller Centers	27" BF		33" BF		39" BF		45" BF		51" BF		57" BF		61" BF	
	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'
4"	-77	-154	-92	-184	-106	-212	-122	-244	-144	-288	-160	-320	-164	-328
6"	-154	-308	-183	-366	-212	-424	-243	-486	-288	-576	-618	-636	-329	-658

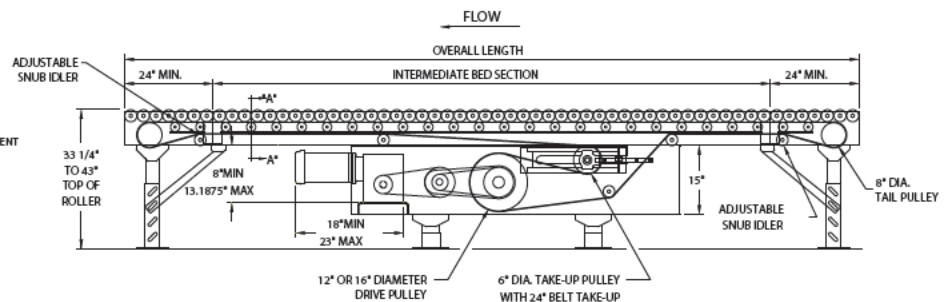
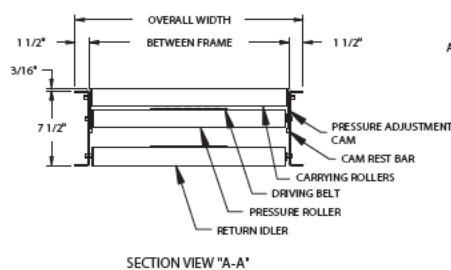
### "267 CAP" — For Weights other than 3" centers deduct the following:

Roller Centers	27" BF		33" BF		39" BF		45" BF		51" BF		57" BF		61" BF	
	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'
4"	-92	-184	-113	-226	-131	-262	-153	-306	-176	-352	-195	-390	-207	-414
6"	-184	-368	-227	-454	-265	-530	-306	-612	-353	-706	-390	-780	-413	-828

## Load Capacity Chart

30 FPM Roller Speed

Diameter Drive Pulley	HP	B/F Width 27" to 33"		B/F Width 39" to 51"		B/F Width 57" to 61"	
		50' OAL	100' OAL	50' OAL	100' OAL	50' OAL	100' OAL
12"	2	8000	6000	6000	-	5000	-
16"	3	15000	12000	12000	8000	12000	6000
	5	18000	17000	17000	12000	16000	11000



# 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.

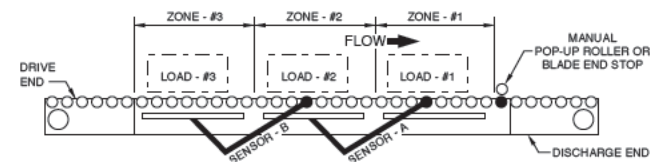
**Guard Rails** - Adjustable channel, continuous channel or solid steel guard rails are available.

**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, optional pneumatic operated end zone should be ordered.
4. To unload, remove end load or lower roller stop which will advance second load into first zone and third load into second, etc.

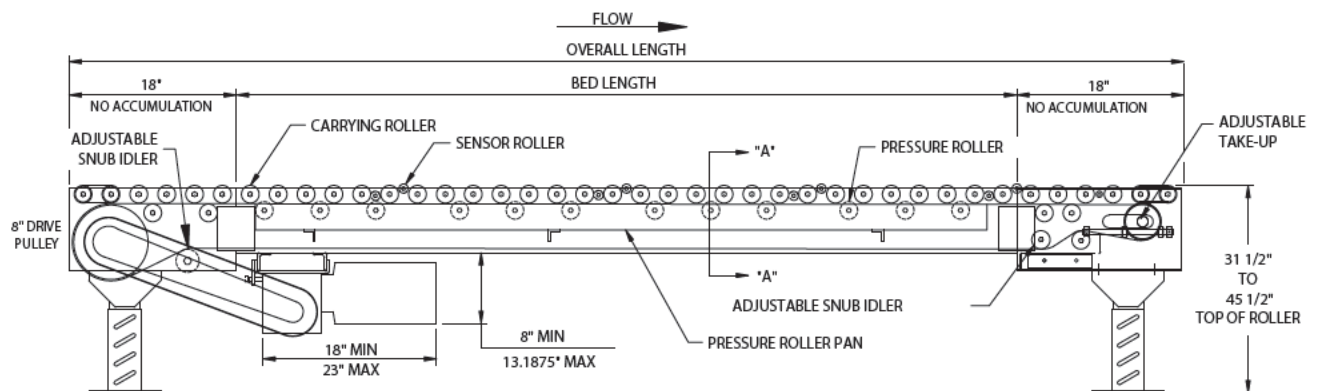
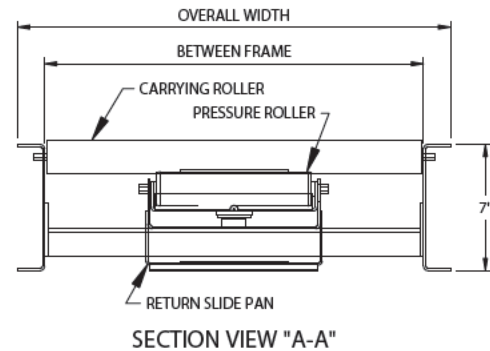
# MODEL "190ZPA"



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



# MODEL "190ABE"

## Medium Duty Belt Driven Live Roller Photo Eye Controlled Accumulating Conveyor

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

### 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" 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 50 accumulation zones.

**Air Requirements** - Operating pressure is 20-35 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** - 1 1/2" x 1 1/2" x 12 gauge galvanized angle guard rails, both sides. NOTE: Product contact with guard rails will affect product flow.

**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.

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

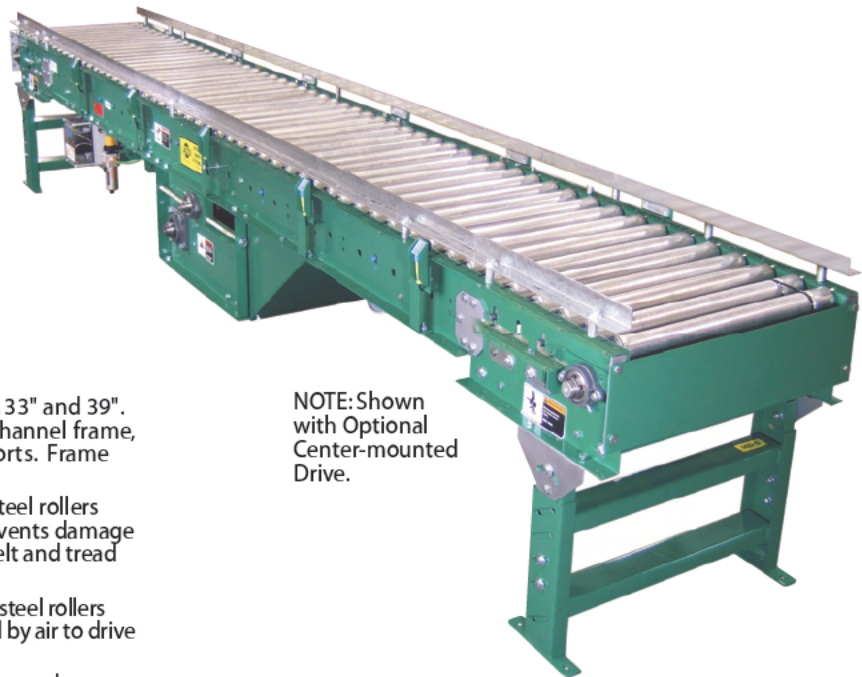
**Bearings** - Sealed prelubricated with cast iron housings.

**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.



NOTE: Shown with Optional Center-mounted Drive.

### 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.

**Roller Brakes** - (4) per zone.

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

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

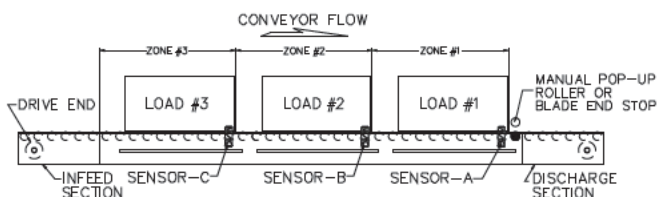
**Air Control Zone Stop** - Pneumatic brake to stop rollers in work station area.

**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 "190LSE" is loaded at the infeed end of conveyor. The first load travels the entire length of the conveyor to Zone #1. If the photoelectric sensor in Zone #1 has been activated by an external signal (normally open contact, not supplied) the product will stop in Zone #1.
- 2) The second load travels the length of the conveyor until it reaches Zone #2. If Zone #1 is occupied, the second load will stop in Zone #2. Load #3 will stop in Zone #3 and continue to accumulate at "zero pressure" until fully loaded.
- 3) To unload, an external signal (normally open contact, not supplied) to the photoelectric sensor in Zone #1 will release the accumulation feature and allow the product in Zone #1 to leave the conveyor. The load in Zone #2 will not advance into Zone #1 until the load in Zone #1 has completely cleared Zone #1's photoelectric sensor; the third load will not advance into Zone #2 until the second load clears the photoelectric sensor in Zone #2. Once the first load clears the photoelectric sensor in Zone #1, the external signal must be restored to Zone #1's photoelectric sensor for the accumulation process to continue.



# MODEL "190ABE"



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"	
		<b>Rollers on 3" Centers</b>						
10'	13'	<b>Weight (lbs.)</b>	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	

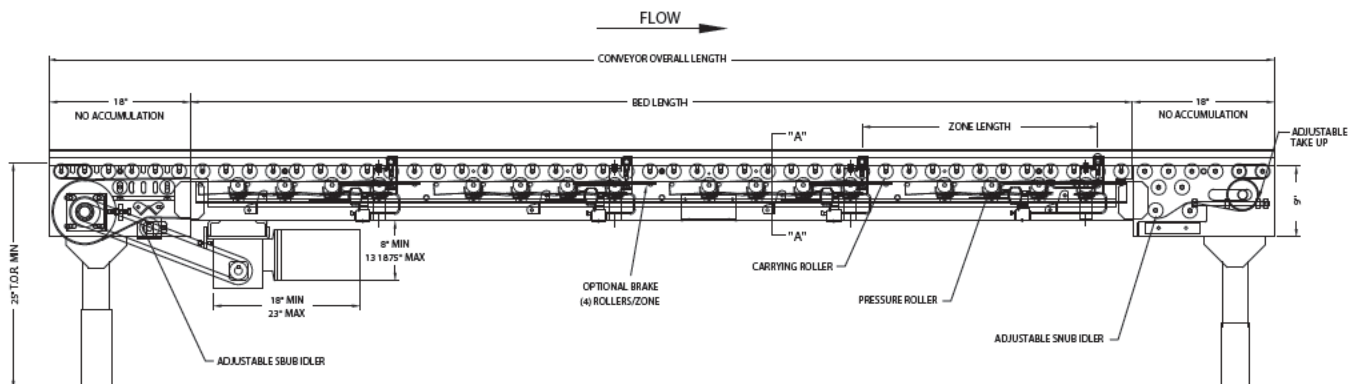
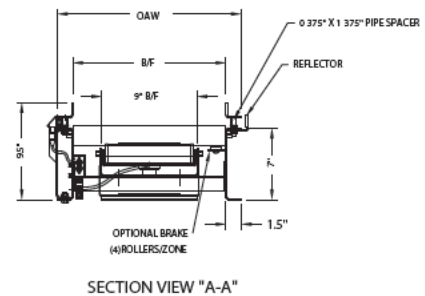
**For Weights other than 3" centers deduct the following:**

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	-164

## 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





# MODEL "22ACDE"

Air Operated Accumulating Conveyor  
Photo Eye Controlled

- Medium Weight Pallets
- Drum Filling Operations
- Large Carton Accumulation
- Handles Product on Slip Sheets
- Photo eye controlled



## STANDARD SPECIFICATIONS

**Frame** - Conveying surface width 14", 16", 18", 24", 28", and 34". 5 1/2" x 1 1/2" x 10 gauge powder painted formed steel channel both sides. Sections are bolted together with butt couplings and floor supports.

**Tread Rollers** - 2" dia. x 12 gauge steel with #40 sprockets welded to roller tube, 7/16" hex shaft. Rollers spaced on 4", or 6" centers, set low 1 1/2". Roller to roller driven.

**Drive** - Located near center of conveyor length, under conveyor frame.

**Drive Chain** - RC #40 for roller to roller connections, RC #50 chain drive for each zone. Chains are totally enclosed by metal guards.

**Floor Supports** - Adjustable 28" to 42" from floor to top of rollers. One support supplied for each end of conveyor and at each bed joint.

**Accumulation Zones** - Standard zone lengths are 24", 30", and 36" with a maximum of 30 zones per drive. Conveyor frame lengths change with zone lengths and zone length must be divisible by roller centers. Each zone is driven by an air clutch and controlled by a photo eye sensor.

**Sensing Device** - NEMA 1 photo electric sensor in each zone detects product presence and activates accumulation feature in trailing zone if upstream zone is occupied.

**Power Supply** - 120VAC power supply controls accumulation feature with 24VDC output. Power supply will control 50 accumulation zones.

**Filter/Regulator** - Mounted to conveyor side frame. 50 PSI recommended operating pressure with free air consumption of .001 cu. ft. per sensor operation.

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

**Conveyor Speed** - 30 FPM constant.

**Capacity** - Maximum load 250 lbs. per foot; maximum unit load 1000 lbs. Not to exceed load capacity chart.

## OPTIONAL EQUIPMENT

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

**Pneumatic Stop** - Pneumatic roller/blade stop can be located most anywhere in conveyor length to stop loads in work zones.

# MODEL "22ACDE"



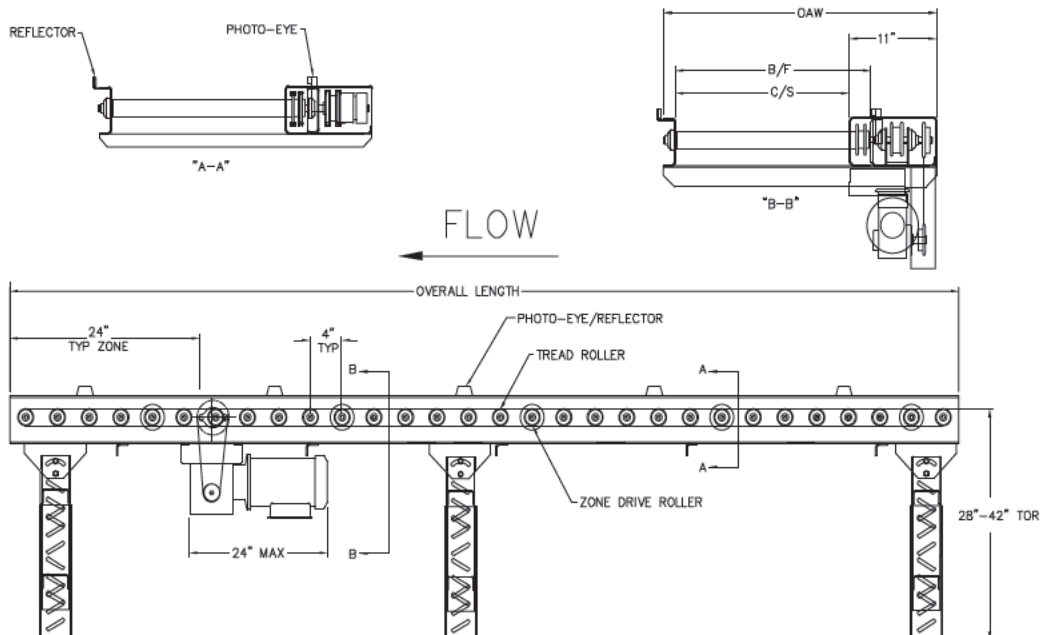
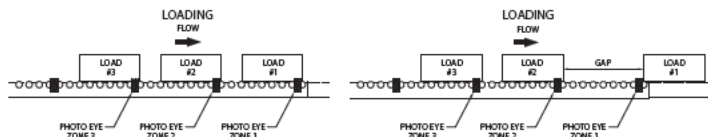
Bed Length	Conveying Surface		14"	16"	18"	24"	28"	34"
	Between Frame Width		17"	19"	21"	27"	31"	37"
	Overall Frame Width		26.5"	28.5"	30.5"	36.5"	40.5"	46.5"
10'	Weight (lbs.) Based On 4" Roller		328	375	424	564	660	796
20'			617	703	795	1057	1237	1496
30'			925	1055	1192	1585	1854	2244
40'			1160	1322	1495	1987	2325	2814
50'			1450	1653	1868	2484	2907	3517
60'			1740	1983	2241	2981	3488	4220
70'			2030	2314	2615	3478	4069	4924
80'			2320	2645	2989	3975	4651	5627
90'			2610	2975	3362	4472	5232	6331

## OPERATIONAL SEQUENCE

- Model "22ACDE" is loaded at the infeed end of conveyor. The first load travels the entire length of the conveyor to Zone #1. If the photoelectric sensor in Zone #1 has been activated by an external signal (normally open contact, not supplied) the product will stop in Zone #1.
- The second load travels the length of the conveyor until it reaches Zone #2. If Zone #1 is occupied, the second load will stop in Zone #2. Load #3 will stop in Zone #3 and continue to accumulate at "zero pressure" until fully loaded.
- To unload, an external signal (normally open contact, not supplied) to the photoelectric sensor in Zone #1 will release the accumulation feature and allow the product in Zone #1 to leave the conveyor. The load in Zone #2 will not advance into Zone #1 until the load in Zone #1 has completely cleared Zone #1's photoelectric sensor; the third load will not advance into Zone #2 until the second load clears the photoelectric sensor in Zone #2. Once the first load clears the photoelectric sensor in Zone #1, the external signal must be restored to Zone #1's photoelectric sensor for the accumulation process to continue.

## Load Capacity Charts

Accumulated			Moving		
Conveyor Speed @ 30 FPM			Conveyor Speed @ 30 FPM		
HP	Total Load (lbs.)		HP	Total Load (lbs.)	
	Up to 50'	Up to 100'		Up to 50'	Up to 100'
1/2	6000	5000	1/2	3000	2000
3/4	7500	6500	3/4	4500	3500
1	9000	8000	1	6000	5000
1 1/2	10500	9500	1 1/2	7500	6500
2	12000	11000	2	9000	8000



# MODEL "251CDA"

## Chain Driven Pallet Accumulating Conveyor



- Zero pressure accumulation
- Mechanically operated
- Heavy duty construction
- Chain driven rollers
- Zone connections outside frame for easy installation

### STANDARD SPECIFICATIONS

**Frame** - Heavy duty 12½" deep x 7 gauge powder painted formed steel channel with heavy duty cross braces. Frames are bolted together with splice plates and floor supports.

**Rollers** - 2½" diameter x 11 gauge steel rollers, grease packed and labyrinth sealed bearings, 1/16" hex shaft. Rollers are spaced on 4" or 6" centers, set 7/8" low.

**Floor Supports** - Adjustable 25⅝" to 30¼" (HD-4) from floor to top of roller, for each end of conveyor and at each bed joint along with knee braces for each support. Supports on 5 foot centers, change with zone length. Minimum elevation with standard drive location 24".

**Drive** - Located near center of conveyor length, underneath conveyor frame.

**Drive Chain** - RC 40 chain used for roller-to-roller connections, RC 60 chain drives each zone. Chains are totally enclosed by metal guards.

**Accumulation Zones** - Standard zones are 60" long with maximum of 30 zones per single drive.

**Motor** - ¾ HP 230/460-3-60 TE motor.

**Electrical Controls** - Input to a power supply.

**Conveyor Speed** - 30 FPM constant roller speed.

**Capacity** - Minimum unit load - 50 pounds. 4000 pounds maximum unit load. Total conveyor live load not to exceed Load Capacity Chart. For loads less than 50 lbs., consult factory.

**Speed Reducer** - Heavy duty, sealed worm gear, C-Face.

**Bearings** - Non-reversing, sealed prelubricated with cast iron housings.

### OPTIONAL EQUIPMENT

**Accumulation Zones** - 4" roller centers 36", 40", 44", 48", 52", 56" and 72" long. 6" roller centers 36", 42", 48", 54" and 72" long. Frame lengths change with zone lengths.

**Tread Rollers** - 2⅝" diameter x 7 gauge steel, 1/16" hex shaft.

**Floor Supports** - Higher or lower supports available, adjustable or fixed type.

**Side Mounted Drive** - Drive unit mounted to side of conveyor in lieu of underneath conveyor frame. 14" minimum elevation to the top of roller.

**Conveyor Speed** - Constant and variable speeds between 10 and 70 FPM available.

**Limit Switch** - To provide signal for customers infeed equipment.

**Time Delay** - Allows for product to be unloaded from discharge zone of conveyor without immediate movement of next load into discharge zone.

**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.

**Optional Loads** - Capacity available to 6000 lbs. unit loads.

**Rollers Set High** - Rollers set ¼" high above side rail. Frame is 11⅝" deep x 7 gauge formed steel channel.

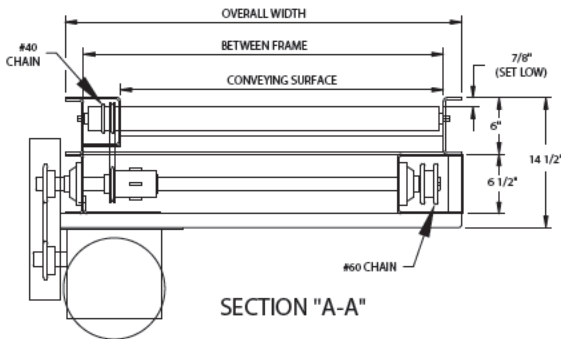
# MODEL "251CDA"



Bed Length	Conveying Surface	34"	40"	46"	52"	59"
	Between Frame Width	37"	43"	49"	55"	61"
	Overall Frame Width	41"	47"	53"	59"	65"
		<b>Rollers on 4" Centers</b>				
10'	<b>Weights (lbs.)</b>	1378	1483	1588	1693	1799
15'		1964	2117	2270	2423	2577
20'		2549	2570	2951	3152	3354
25'		3135	3384	3633	3882	4132
30'		3720	4017	4314	4611	4909
40'		4891	5284	5677	6070	6464
50'		6062	6551	7040	7529	8019
60'		7233	7818	8403	8988	9574
70'		8404	9085	9766	10447	11129
80'		9575	10352	11129	11906	12684
90'		10746	11619	12492	13365	14239
100'	11917	12886	13855	14824	15794	

Note: Overall lengths in chart are for 60" zones. Other zone lengths will affect overall length.

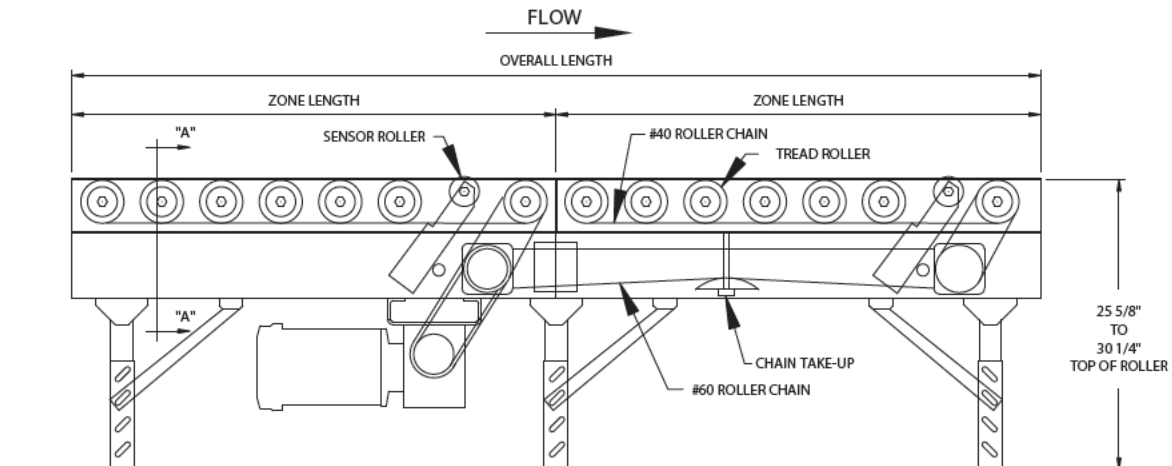
## Load Capacity Charts



Accumulated			Moving		
Conveyor Speed @ 30 FPM			Conveyor Speed @ 30 FPM		
HP	Total Load (lbs.)		HP	Total Load (lbs.)	
	Up to 50'	Up to 100'		Up to 50'	Up to 100'
3/4	12000	7500	3/4	6000	3750
1	18000	13000	1	9000	6500
1 1/2	30000	25000	1 1/2	15000	12500
2	42000	37000	2	21000	18500

NOTE- Minimum elevation with 3/4 H.P. motor drive mounted underneath conveyor is 24".

Capacities based on 50% of load moving at same time.



# MODEL "251CDE"

## Chain Driven Photo Eye Controlled Pallet Accumulating Conveyor

- Zero pressure accumulation
- Electrically operated
- Heavy duty construction
- Chain driven rollers
- Photo eye controlled
- Zone connections outside frame for easy installation



### STANDARD SPECIFICATIONS

**Frame** - Heavy duty 12½" deep x 7 gauge powder painted formed steel channel with heavy duty cross braces. Frames are bolted together with splice plates and floor supports.

**Rollers** - 2½" diameter x 11 gauge steel rollers, grease packed and labyrinth sealed bearings, 1/16" hex shaft. Rollers are spaced on 4" or 6" centers, set 7/8" low.

**Floor Supports** - Adjustable 25⅝" to 30¼" (HD-4) from floor to top of roller, for each end of conveyor and at each bed joint along with knee braces for each support. Supports on 5 foot centers, change with zone length. Minimum elevation with standard drive location 24".

**Drive** - Located near center of conveyor length, underneath conveyor frame.

**Drive Chain** - RC 40 chain used for roller-to-roller connections, RC 60 chain drives each zone. Chains are totally enclosed by metal guards.

**Accumulation Zones** - Standard zones are 60" long with maximum of 30 zones per single drive. Each zone is controlled by photo eye.

**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.

**Motor** - ¾ HP 230/460-3-60 TE motor.

**Electrical Controls** - 120 VAC Input to power supply. Power supply has an output of 24 VDC, 4 amp maximum

**Power Supply** - 120 VAC power supply controls accumulation feature with 24 VDC output. Power supply will control 50 accumulation zones.

**Conveyor Speed** - 30 FPM constant roller speed.

**Capacity** - Minimum unit load - 50 pounds. 4000 pounds maximum unit load. Total conveyor live load not to exceed Load Capacity Chart. For loads less than 50 lbs., consult factory.

**Speed Reducer** - Heavy duty, sealed worm gear, C-Face.

**Bearings** - Non-reversing, sealed prelubricated with cast iron housings.

**Filter/Regulator** - Mounted to conveyor side frame. 50 PSI recommended operating pressure with free air consumption of .001 cu. ft. per sensor operation.

### OPTIONAL EQUIPMENT

**Accumulation Zones** - 4" roller centers 36", 40", 44", 48", 52", 56" and 72" long. 6" roller centers 36", 42", 48", 54" and 72" long. Frame lengths change with zone lengths.

**Tread Rollers** - 2⅝" diameter x 7 gauge steel, 1/16" hex shaft.

**Floor Supports** - Higher or lower supports available, adjustable or fixed type.

**Side Mounted Drive** - Drive unit mounted to side of conveyor in lieu of underneath conveyor frame. 14" minimum elevation to the top of roller.

**Time Delay Restart** - Allows for product to be unloaded from discharge zone of conveyor without immediate movement of next load into discharge zone.

**Conveyor Speed** - Constant and variable speeds between 10 and 70 FPM available.

**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.

**Optional Loads** - Capacity available to 6000 lbs. unit loads.

**Rollers Set High** - Rollers set ¼" high above side rail. Frame is 11⅜" deep x 7 gauge formed steel channel.

# MODEL "251CDE"

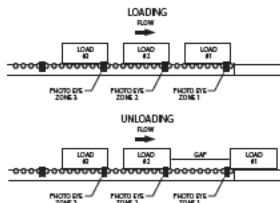


Bed Length	Conveying Surface	34"	40"	46"	52"	59"
	Between Frame Width	37"	43"	49"	55"	61"
	Overall Frame Width	41"	47"	53"	59"	65"
		<b>Rollers on 4" Centers</b>				
10'	<b>Weights (lbs.)</b>	1378	1483	1588	1693	1799
15'		1964	2117	2270	2423	2577
20'		2549	2570	2951	3152	3354
25'		3135	3384	3633	3882	4132
30'		3720	4017	4314	4611	4909
40'		4891	5284	5677	6070	6464
50'		6062	6551	7040	7529	8019
60'		7233	7818	8403	8988	9574
70'		8404	9085	9766	10447	11129
80'		9575	10352	11129	11906	12684
90'		10746	11619	12492	13365	14239
100'		11917	12886	13855	14824	15794

**Note:** Overall lengths in chart are for 60" zones. Other zone lengths will affect overall length.

## OPERATIONAL SEQUENCE

- Model "251CDE" is loaded at the infeed end of conveyor. The first load travels the entire length of the conveyor to Zone #1. If the photoelectric sensor in Zone #1 has been activated by an external signal (normally open contact, not supplied) the product will stop in Zone #1.
- The second load travels the length of the conveyor until it reaches Zone #2. If Zone #1 is occupied, the second load will stop in Zone #2. Load #3 will stop in Zone #3 and continue to accumulate at "zero pressure" until fully loaded.
- To unload, an external signal (normally open contact, not supplied) to the photoelectric sensor in Zone #1 will release the accumulation feature and allow the product in Zone #1 to leave the conveyor. The load in Zone #2 will not advance into Zone #1 until the load in Zone #1 has completely cleared Zone #1's photoelectric sensor; the third load will not advance into Zone #2 until the second load clears the photoelectric sensor in Zone #2. Once the first load clears the photoelectric sensor in Zone #1, the external signal must be restored to Zone #1's photoelectric sensor for the accumulation process to continue.

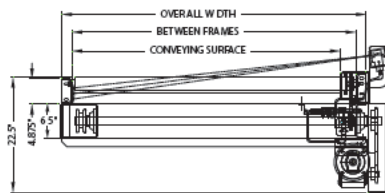


## Load Capacity Charts

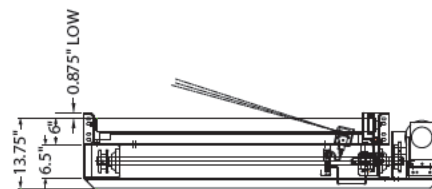
Accumulated			Moving		
Conveyor Speed @ 30 FPM	Total Load (lbs.)		Conveyor Speed @ 30 FPM	Total Load (lbs.)	
	HP			HP	
	Up to 50'	Up to 100'		Up to 50'	Up to 100'
3/4	12000	7500	3/4	6000	3750
1	18000	13000	1	9000	6500
1 1/2	30000	25000	1 1/2	15000	12500
2	42000	37000	2	21000	18500

NOTE- Minimum elevation with 3/4 H.P. motor drive mounted underneath conveyor is 24"

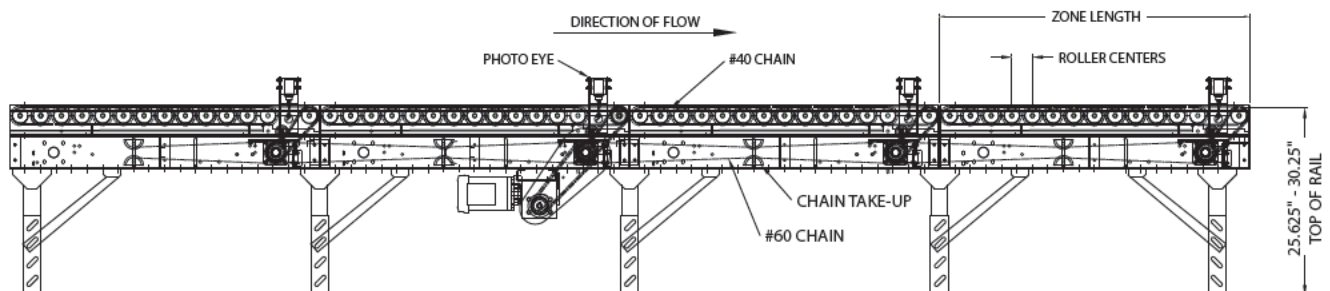
Capacities based on 50% of load moving at same time.



STANDARD: ROLLERS SET HIGH, RETRO-REFLECTIVE PHOTO EYE, & UNDER MOUNT DRIVE.



OPTIONAL: ROLLERS SET LOW, DIFFUSED PHOTO EYE, SIDE MOUNT DRIVE.



# MODEL "251ACDA"

## Air Operated Sensor Roller Controlled Pallet Accumulator

- Zero pressure accumulation
- Air operated
- Heavy duty construction
- Chain driven rollers
- Zone connections outside frame for easy installation



### STANDARD SPECIFICATIONS

**Frame** - Heavy duty 7" deep x 4 gauge powder painted formed steel channel with heavy duty cross braces. Frames are bolted together with splice plates and floor supports.

**Rollers** - 2½" diameter x 11 gauge steel rollers, grease packed and labyrinth sealed bearings, 1/16" hex shaft. Rollers are spaced on 4" or 6" centers, set 2¼" low.

**Floor Supports** - Adjustable 18¾" to 23¾" (HD-4) from floor to top of roller, for each end of conveyor and at each bed joint along with knee braces for each support. Supports on 5 foot centers, changes with zone length.

**Drive** - Located near center of conveyor length, shaft mount motor and reducer.

**Drive Chain** - RC 40 chain used for roller-to-roller connections, RC 60 chain drive each zone. Chains are totally enclosed by metal guards.

**Accumulation Zones** - Standard zones are 60" long with a maximum of 30 zones per single drive. Each zone is driven by an air clutch and controlled by a sensor roller.

**Motor** - ¾ HP 230/460-3-60 TE motor.

**Electrical Controls** - 110/1/60 Electric Solenoid and Air switch for discharge zone.

**Conveyor Speed** - 30 FPM constant roller speed.

**Capacity** - 4,000 lbs. Maximum unit load. Total conveyor live load not to exceed Load Capacity Chart.

**Speed Reducer** - Heavy duty, sealed worm gear, C-Face.

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

### OPTIONAL EQUIPMENT

**Accumulation Zones** - 4" roller centers - 36", 40", 44", 48", 52", 56" and 72" long. 6" roller centers 36", 42", 48", 54" and 72" long. Frame lengths change with zone lengths.

**Tread Rollers** - 2½" diameter x 7 gauge steel, 1/16" hex shaft.

**Floor Supports** - Higher or lower supports available, adjustable or fixed type.

**Conveyor Speed** - Constant and variable speeds (Contact Factory).

**Limit Switch** - to provide signal for customers infeed equipment.

**Time Delay** - Allows for product to be unloaded from discharge zone of conveyor without movement of next load into discharge zone.

**Sensing Devices** - Photo cells, limit switches, etc. can be supplied for electrically operated zones in lieu of mechanical sensing devices.

**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. 24V DC solenoid can be supplied in lieu of 110V AC solenoid in discharge zone.

**Optional Loads** - Larger capacity clutch is available for 6000 lb. unit loads.

**Reversible** - can be supplied with reversing feature to allow accumulation in both directions.

# MODEL "251ACDA"



Bed Length	Conveying Surface					
	Between Frame Width	34"	40"	46"	52"	58"
	Overall Frame Width	37"	43"	49"	55"	61"
10'		1137	1227	1317	1407	1497
15'		1632	1767	1902	2037	2172
20'		2127	2307	2487	2667	2847
25'		2622	2847	3072	3297	3522
30'		3117	3387	3657	3927	4197
40'		4107	4467	4827	5187	5547
50'		5097	5547	5997	6447	6897
60'		6087	6627	7167	7707	8247
70'		7077	7707	8337	8967	9597
80'		8067	8787	9507	10227	10947
90'		9057	9867	10677	11487	12297
100'		10047	10947	11847	12747	13647

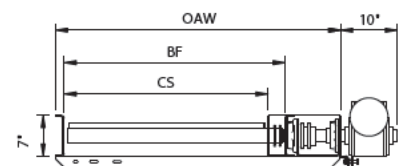
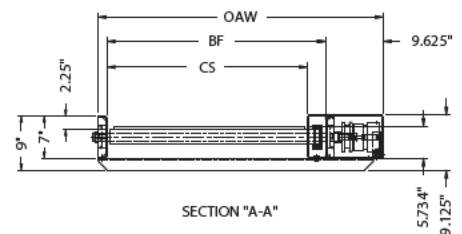
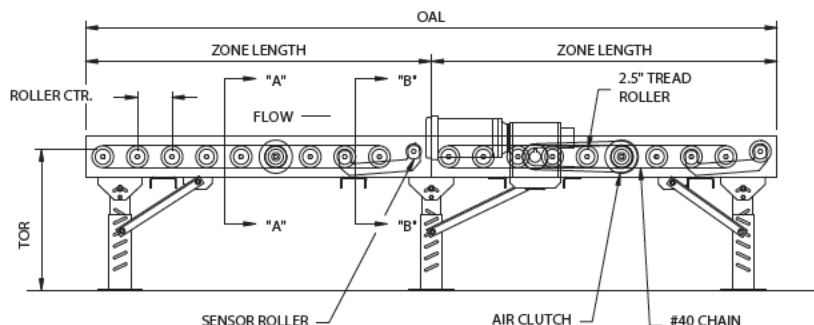
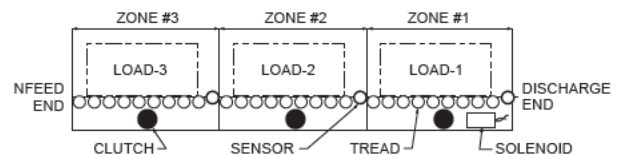
**Weight (lbs.)**  
Based On  
4" Roller  
Centers

## OPERATIONAL SEQUENCE

- When a load is placed on feed end of conveyor it will continue to travel the length of the conveyor until it reaches the last zone (at discharge end) of the conveyor (Zone #1). At this time the load will depress sensor roller #1 which activates a pneumatic pressure switch to indicate a load is in Zone #1. This pressure switch sends a signal to external controls (not supplied by ACS). External controls will determine whether or not to accumulate the load. If accumulation is desired a solenoid will be activated to stop the load in Zone #1.
- As soon as sensor roller #1 is depressed, it sends an air signal to Zone #2 indicating Zone #1 is occupied.
- When load #2 depresses sensor roller #2, the clutch/brake in Zone #2 is disengaged allowing load #2 to accumulate. At the same time, an air signal is sent to Zone #3 indicating Zone #2 is occupied. This sequence of events will continue until the conveyor is fully loaded.
- To activate Zone #1 to release load #1, an electrical signal (120VAC) must be sent to the solenoid switch controlling the clutch/brake in Zone #1. THIS EXTERNAL SIGNAL IS NOT SUPPLIED AS PART OF THE CONVEYOR EQUIPMENT.
- When the electrical signal is received by the solenoid switch controlling the clutch/brake in Zone #1, load #1 will be discharged from conveyor.
- As soon as load #1 clears the sensor roller in Zone #1, load #2 will advance into Zone #1 and stop when it depresses sensor roller #1. The 120VAC external signal must again be sent to the solenoid controlling the clutch/brake in Zone #1 to discharge load #2.
- As soon as load #2 clears sensor roller #2, load #3 will advance to Zone #2 and stop on sensor roller #2.
- This sequence continues automatically as long as the loads in Zone #1 are removed, creating an opening for the loads to advance.

## Load Capacity Charts

Accumulated			Moving		
Conveyor Speed @ 30 FPM			Conveyor Speed @ 30 FPM		
HP	Total Load (lbs.)		HP	Total Load (lbs.)	
	Up to 50'	Up to 100'		Up to 50'	Up to 100'
3/4	12000	7500	3/4	6000	3750
1	18000	13000	1	9000	6500
1 1/2	30000	25000	1 1/2	15000	12500
2	42000	37000	2	21000	18500



SECTION "B-B"



# MODEL "251ACDE"

## Air Operated Photo Eye Controlled Pallet Accumulator

- Zero pressure accumulation
- Air operated
- Heavy duty construction
- Chain driven rollers
- Zone connections outside frame for easy installation
- Photo eye controlled



### STANDARD SPECIFICATIONS

**Frame** - Heavy duty 7" deep x 4 gauge powder painted formed steel channel with heavy duty cross braces. Frames are bolted together with splice plates and floor supports.

**Rollers** - 2½" diameter x 11 gauge steel rollers, grease packed and labyrinth sealed bearings, 1/16" hex shaft. Rollers are spaced on 4" or 6" centers, set 2¼" low.

**Floor Supports** - Adjustable 18¾" to 23¾" (HD-4) from floor to top of roller, for each end of conveyor and at each bed joint along with knee braces for each support. Supports on 5 foot centers, changes with zone length.

**Drive** - Located near center of conveyor length, shaft mount motor and reducer.

**Drive Chain** - RC 40 chain used for roller-to-roller connections, RC 60 chain drive each zone. Chains are totally enclosed by metal guards.

**Accumulation Zones** - Standard zones are 60" long with a maximum of 30 zones per single drive. Each zone is driven by an air clutch and controlled by a photo eye.

**Motor** - ¾ HP 230/460-3-60 TE motor.

**Electrical Controls** - 120 VAC input to power supply.

**Conveyor Speed** - 30 FPM constant roller speed.

**Capacity** - 4,000 lbs. Maximum unit load. Total conveyor live load not to exceed Load Capacity Chart.

**Speed Reducer** - Heavy duty, sealed worm gear, C-Face.

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

**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 50 accumulation zones.

**Air Requirements** - Operating pressure is 20-35 psi on main trunk line.

**Filter/Regulator** - Supplied loose for mounting to conveyor side frame, with ¾" NPT ports. 35 to 40 psi recommended operating pressure with free air consumption of .0062 cu. ft. per sensor operation.

### OPTIONAL EQUIPMENT

**Accumulation Zones** - 4" roller centers - 36", 40", 44", 48", 52", 56" and 72" long. 6" roller centers 36", 42", 48", 54" and 72" long. Frame lengths change with zone lengths.

**Tread Rollers** - 2½" diameter x 7 gauge steel, 1/16" hex shaft.

**Floor Supports** - Higher or lower supports available, adjustable or fixed type.

**Conveyor Speed** - Constant and variable speeds (Contact Factory).

**Limit Switch** - to provide signal for customers infeed equipment.

**Time Delay** - Allows for product to be unloaded from discharge zone of conveyor without movement of next load into discharge zone.

**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. 24V DC solenoid can be supplied in lieu of 110V AC solenoid in discharge zone.

**Optional Loads** - Larger capacity clutch is available for 6000 lb. unit loads.

**Reversible** - can be supplied with reversing feature to allow accumulation in both directions.

# MODEL "251ACDE"



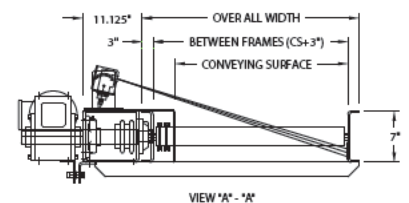
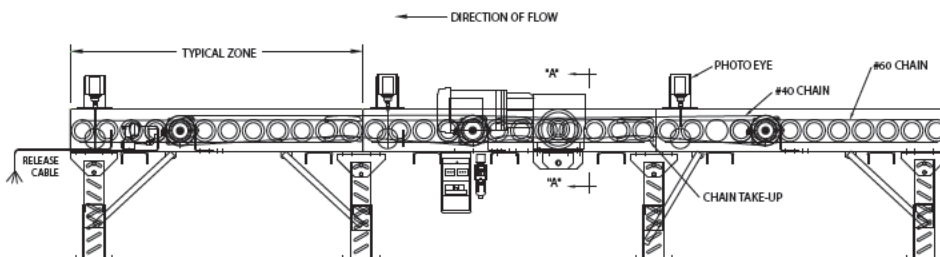
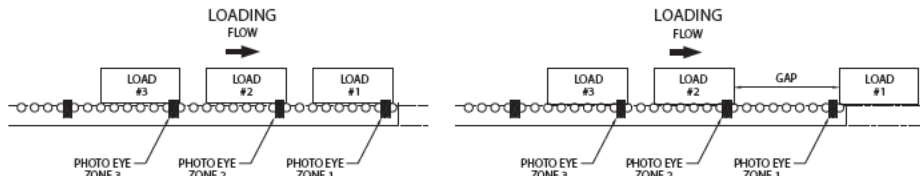
Bed Length	Conveying Surface					
	Between Frame Width	34"	40"	46"	52"	58"
	Overall Frame Width	37"	43"	49"	55"	61"
10'		1137	1227	1317	1407	1497
15'		1632	1767	1902	2037	2172
20'		2127	2307	2487	2667	2847
25'		2622	2847	3072	3297	3522
30'		3117	3387	3657	3927	4197
40'	Weight (lbs.) Based On 4" Roller Centers	4107	4467	4827	5187	5547
50'		5097	5547	5997	6447	6897
60'		6087	6627	7167	7707	8247
70'		7077	7707	8337	8967	9597
80'		8067	8787	9507	10227	10947
90'		9057	9867	10677	11487	12297
100'		10047	10947	11847	12747	13647

## OPERATIONAL SEQUENCE

- 1) Model "251ACDE" is loaded at the infeed end of conveyor. The first load travels the entire length of the conveyor to Zone #1. If the photoelectric sensor in Zone #1 has been activated by an external signal (normally open contact, not supplied) the product will stop in Zone #1.
- 2) The second load travels the length of the conveyor until it reaches Zone #2. If Zone #1 is occupied, the second load will stop in Zone #2. Load #3 will stop in Zone #3 and continue to accumulate at "zero pressure" until fully loaded.
- 3) To unload, an external signal (normally open contact, not supplied) to the photoelectric sensor in Zone #1 will release the accumulation feature and allow the product in Zone #1 to leave the conveyor. The load in Zone #2 will not advance into Zone #1 until the load in Zone #1 has completely cleared Zone #1's photoelectric sensor; the third load will not advance into Zone #2 until the second load clears the photoelectric sensor in Zone #2. Once the first load clears the photoelectric sensor in Zone #1, the external signal must be restored to Zone #1's photoelectric sensor for the accumulation process to continue.

## Load Capacity Charts

Accumulated			Moving		
Conveyor Speed @ 30 FPM			Conveyor Speed @ 30 FPM		
HP	Total Load (lbs.)		HP	Total Load (lbs.)	
	Up to 50'	Up to 100'		Up to 50'	Up to 100'
3/4	12000	7500	3/4	6000	3750
1	18000	13000	1	9000	6500
1 1/2	30000	25000	1 1/2	15000	12500
2	42000	37000	2	21000	18500



- Transports around turns with positive drive
- Can be slave driven from "138CAP"



## STANDARD SPECIFICATIONS

**Driving Belt** - "B" section V-belt.

**Bed** - Roller bed width between frames, 10", 13", 16" and 22". 5 1/2" x 1 1/2" x 12 gauge powder painted formed steel channel frame.

**Tread Rollers** - 1 3/8" diameter x 18 gauge galvanized steel tread rollers, 1 1/2" centers, 5/16" hex shaft for 13"-19" OAW. 2 1/2" to 1 11/16" tapered roller for 25" OAW conveyor, 7/16" hex shaft.

**Pressure Sheaves** - 3" diameter x 3/8" bore, adjustable to give required driving force.

**Floor Supports** - Adjustable 30" to 44" from floor to top of rollers. One support at each end, center leg on outer rail.

**Tangent** - 12" long, one on each end.

**Take-Up** - Screw take-up provided to insure proper V-belt tension. Mounted underneath conveyor.

**End Drive** - Mounted below bed section.

**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.

**Conveying Speed** - 60 FPM constant.

**Capacity** - 300 lbs. total distributed live load.

## OPTIONAL EQUIPMENT

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

**Floor Supports** - Lower or higher supports are available. Minimum elevation 15 1/2".

**Ceiling Hangers** - 1/2" 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. Minimum elevation 8". Specify side. Minimum tangent length - 18".

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

**Conveying Speed** - Variable and other constant speeds available.

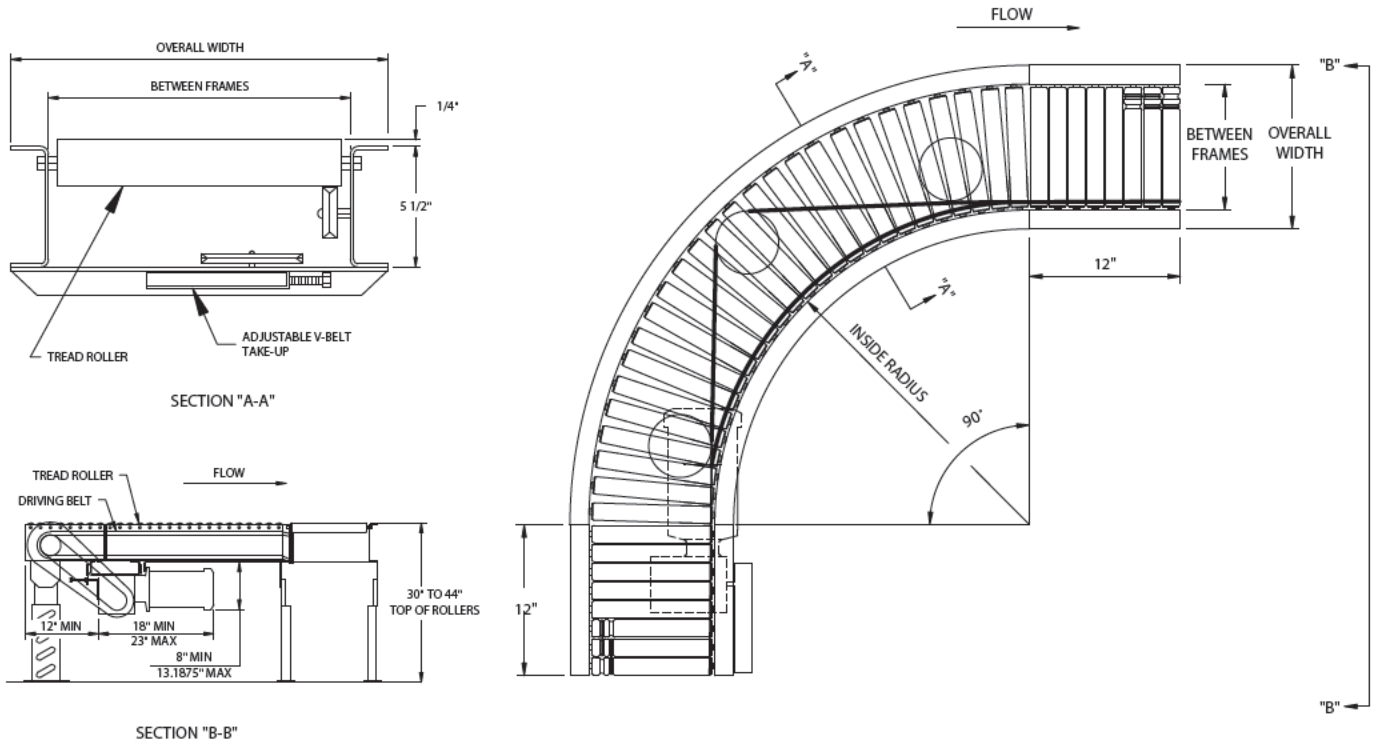
**Electrical Controls** - Magnetic starters and push button stations; manual motor starters with overload protection, others.

# MODEL "138CLR"



Overall Width	Width Between Frames	R	Number Of Rollers			Weight (Lbs.)		
			90°	45°	30°	90°	45°	30°
13"	10"	25"	42	29	24	280	265	245
16"	13"					295	275	255
19"	16"					315	285	265
25"	22"	32 1/2"	36	26	23	435	415	395

**Note:** 22" between rail curves are furnished with 2 1/2" to 1 11/16" diameter tapered rollers. 10", 13" and 16" between rail curves are furnished with 1 3/8" diameter straight rollers.



# MODELS "138CLRS" and "138CLRSS" V-Belt Spur



NOTE:  
 Model shown  
 is 190CLRS.

- Used for merging or diverging
- Gives positive drive
- Can be slave driven by "138CAP"

## STANDARD SPECIFICATIONS

**Driving Belt** - "B" section V-belt.

**Bed** - Roller bed width between frames, 10", 13", 16" and 22". 5 1/2" x 1 1/2" x 12 gauge powder painted formed steel channel frame.

**Tread Rollers** - 1 3/8" diameter x 18 gauge galvanized steel tread rollers, 1 1/2" centers, 5/16" hex shaft for 13" to 19" OAW. 2 1/2" to 1 1/16" tapered roller for 25" OAW conveyor, 7/16" hex shaft.

**Pressure Sheaves** - 3" diameter x 3/8" bore, adjustable to give required driving force.

**Floor Supports** - One support adjustable 30" to 44" from floor to top of rollers. Center leg on outer rail of "138 CLRS".

**Tangent** - 12" long, on one end of curved spur.

**Take-Up** - Screw take-up provided to insure proper V-belt tension. Mounted in conveyor frame.

**End Drive** - Mounted below bed section.

**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.

**Conveying Speed** - 60 FPM constant.

**Capacity** - 300 lbs. total distributed live load.

## OPTIONAL EQUIPMENT

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

**Floor Supports** - Lower or higher supports are available. Minimum elevation 15 1/2".

**Ceiling Hangers** - 1/2" 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. Minimum elevation 8". Specify side.

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

**Conveying Speed** - Variable and other constant speeds available.

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

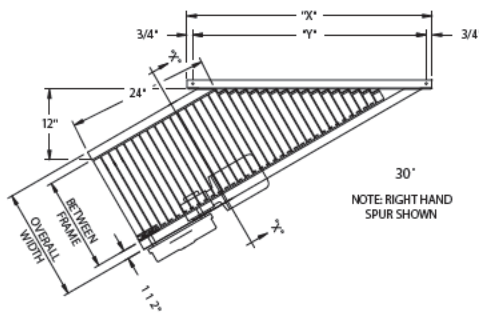
# MODELS "138CLRS" and "138CLRSS"



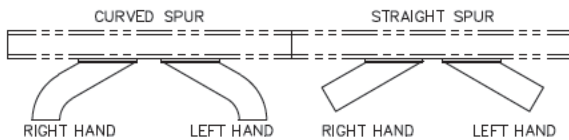
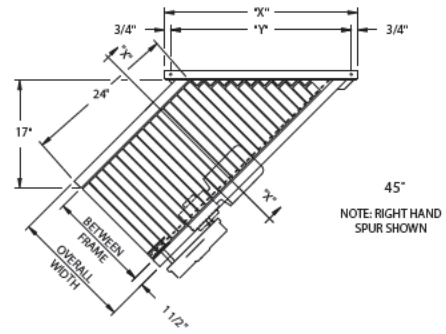
CURVE SPUR "138CLRS"								
Overall Width	Width Between Frame	Radius	A		B		Weight (lbs.)	
			45°	30°	45°	30°	45°	30°
13"	10"		45 1/4"	48 3/8"	34 3/8"	49 3/8"	130	140
16"	13"	25"	47 1/4"	51"	39 1/2"	57"	135	145
19"	16"		49 1/2"	53 1/2"	44 5/8"	64 1/2"	140	150
25"	22"	32 1/2"	59"	65 1/4"	57"	83"	145	155

STRAIGHT SPUR "138CLRSS"							
Overall Width	Width Between Frame	A		B		Weight (lbs.)	
		45°	30°	45°	30°	45°	30°
13"	10"	21 1/2"	29"	20"	27 1/2"	160	185
16"	13"	25 1/2"	35"	24"	33 1/2"	165	190
19"	16"	30"	41"	28 1/2"	39 1/2"	170	195
25"	22"	38 1/2"	53"	37"	51 1/2"	175	200

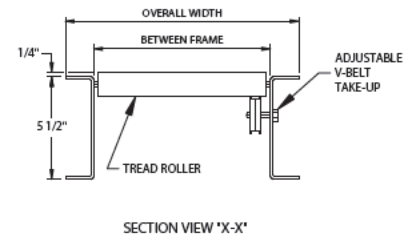
## "138CLRSS" STRAIGHT SPUR - 30°



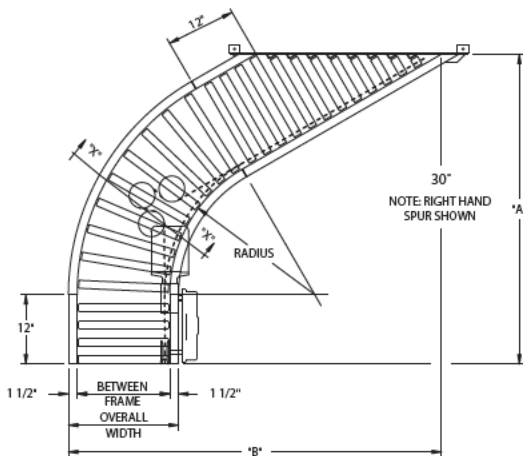
## "138CLRSS" STRAIGHT SPUR - 45°



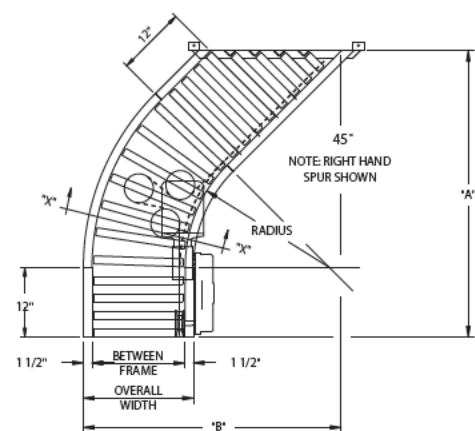
- Specify "right" or "left" hand unit.
- Specify direction of flow.
- Specify conveyor to be attached to in order for proper attachment bracket to be furnished.

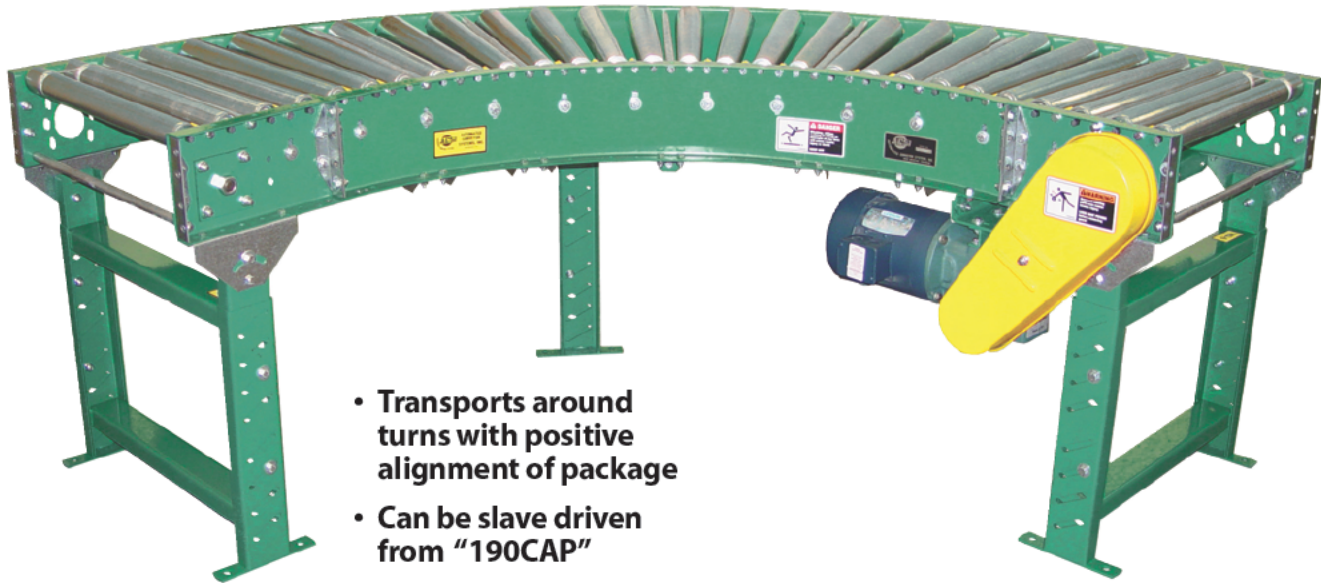


## "138CLRS" CURVE SPUR - 30°



## "138CLRS" CURVE SPUR - 45°





- Transports around turns with positive alignment of package
- Can be slave driven from "190CAP"

## STANDARD SPECIFICATIONS

**Driving Belt** - "B" section V-belt.

**Bed** - Roller bed width between frames, 15", 21", 27", 33" and 39". 2½" diameter tapered to 1⅞" diameter x 14 gauge wall plated tread rollers. 7/16" hex shafts. Steel pressure sheaves. Mounted in 7" x 1½" x 12 gauge powder painted formed steel channel frame.

**Floor Supports** - Adjustable 31½" to 45½" from floor to top of rollers. One support at each end, and center leg on outer rail.

**Take-Up** - Screw take-up provided to insure proper V-belt tension. Mounted underneath conveyor.

**Tangent** - 12" long, one on each end.

**End Drive** - Mounted below bed section.

**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** - 540 lbs. total distributed live load.

## OPTIONAL EQUIPMENT

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

**Floor Supports** - Lower or higher supports are available. Minimum elevation, 17" from floor to top of rollers.

**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. Minimum elevation 9½". Specify side.

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

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

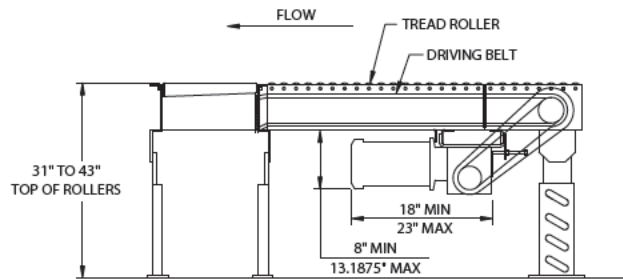
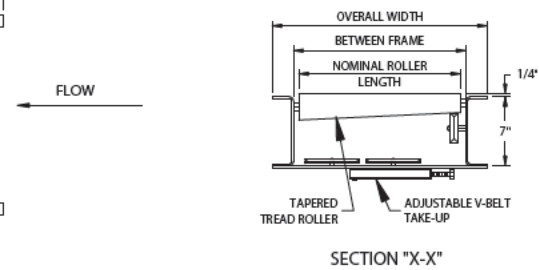
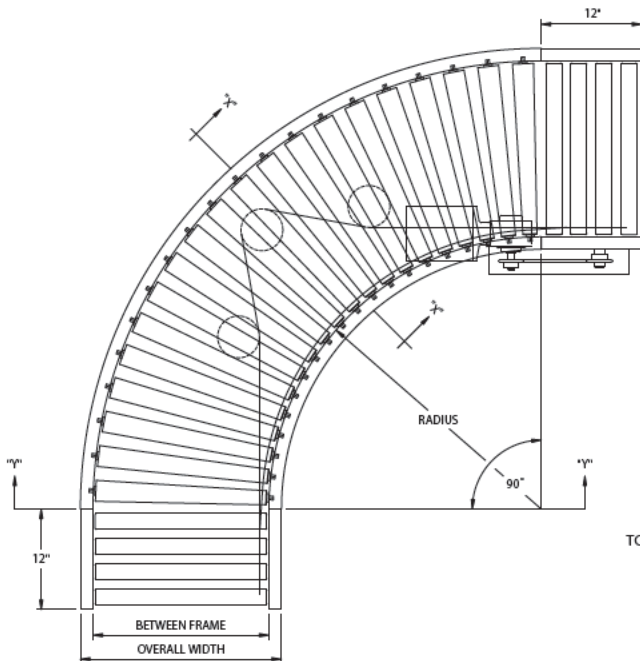
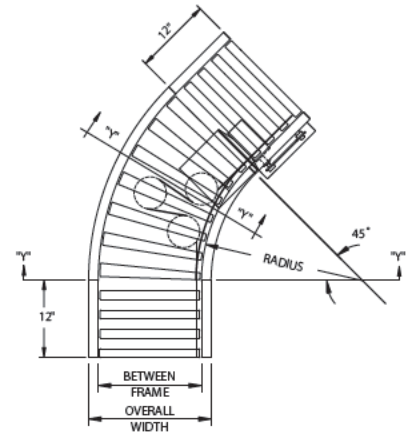
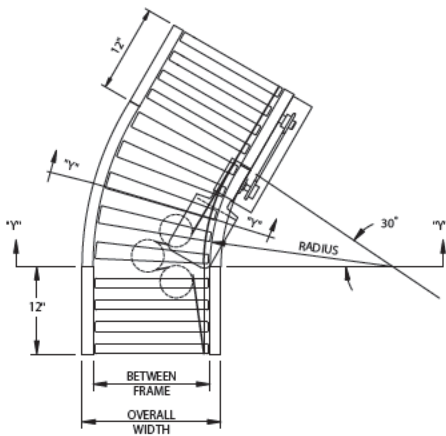
**Electrical Controls** - Magnetic starters and push button stations; manual motor starters with overload protection, others.

**Tangents** - Standard tangents are 12" long, located at each end of curve. Longer tangents available. Contact Factory.

# MODEL "190CLR"



Overall Width	Width Between Frames	Radius	No. Tapered Rollers			No. Straight Rollers			Weight (lbs.)		
			90°	45°	30°	90°	45°	30°	90°	45°	30°
18"	15"	32½"	20	10	7	8	8	8	428	407	396
24"	21"		20	10	7	8	8	8	470	449	438
30"	27"		20	10	7	8	8	8	512	491	480
36"	33"	48"	30	15	10	8	8	8	540	519	508
42"	39"		30	15	10	8	8	8	568	547	526



SECTION "Y-Y"



# MODELS "190CLRS" and "190CLRSS" V-Belt Spurs



- Diverging or converging applications
- Positive alignment of package

## STANDARD SPECIFICATIONS

**Driving Belt** - "B" section V-belt.

**Bed** - Roller bed width between rails 15", 21", 27", 33" and 39". 7 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 12 gauge powder painted formed steel channel frame.

**Tread Rollers** - 2 $\frac{1}{2}$ " diameter tapered to 1 $\frac{11}{16}$ " diameter plated and 1.9" diameter x 16 gauge plated steel tread rollers, 7 $\frac{7}{16}$ " hex shaft.

**Pressure Sheaves** - 3" diameter x 3 $\frac{3}{8}$ " bore, adjustable to give required driving force.

**Take-Up** - Screw take-up provided to insure proper V-belt tension. Mounted underneath conveyor.

**Tangent** - 12" long, on one end of curved spur.

**Floor Supports** - Adjustable 31 $\frac{1}{2}$ " to 45 $\frac{1}{2}$ " from floor to top of rollers.

**End Drive** - Mounted below bed section.

**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.

**Belt Speed** - 60 FPM constant.

**Capacity** - 540 lbs. total distributed live load.

## OPTIONAL EQUIPMENT

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

**Floor Supports** - Lower or higher supports are available. Minimum elevation, 17" from floor to top of rollers.

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

**Center Drive** - Mounted underneath bed section in center of spur.

**Side Mounted Drive** - End drive mounted to side of conveyor section. Specify side. Minimum elevation - 9 $\frac{1}{2}$ " from floor to top of rollers.

**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.

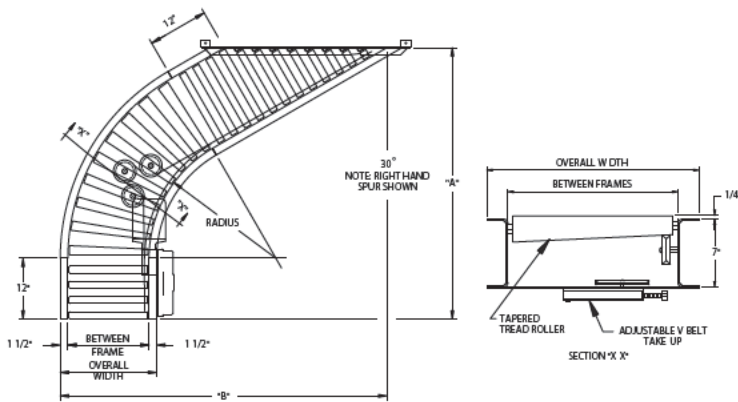
# MODELS "190CLRS" and "190CLRSS"



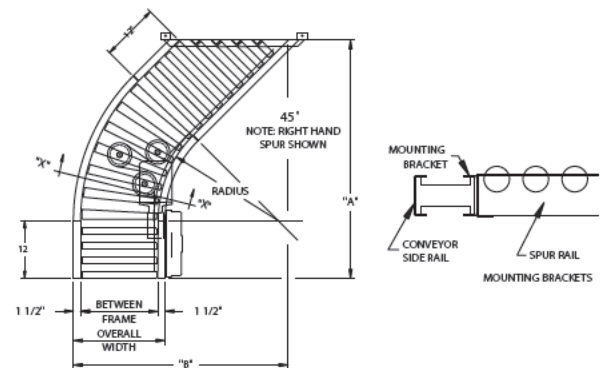
CURVE SPUR "190CLRS"								
Overall Width	Width Between Frame	Radius	A		B		Weight (lbs.)	
			45°	30°	45°	30°	45°	30°
18"	15"	32 1/2"	54 1/8"	59 1/8"	45 1/8"	65 5/8"	290	310
24"	21"		58 3/8"	64 3/8"	55 3/8"	80 5/8"	335	355
30"	27"	48"	62 1/2"	69 1/2"	65 5/8"	95 5/8"	380	405
36"	33"		77 3/4"	88 1/8"	80 3/8"	118 3/8"	403	450
42"	39"		82"	93 3/8"	90 5/8"	133 3/8"	432	490

STRAIGHT SPUR "190CLRSS"								
Overall Width	Width Between Frame	A		B		Weight (lbs.)		
		45°	30°	45°	30°	45°	30°	
18"	15"	27"	40"	25 1/2"	38 1/2"	209	251	
24"	21"	36"	52"	34 1/2"	50 1/2"	238	286	
30"	27"	45"	64"	43 1/2"	62 1/2"	269	323	
36"	33"	53"	76"	51 1/2"	74 1/2"	303	363	
42"	39"	61"	88"	59 1/2"	86 1/2"	332	398	

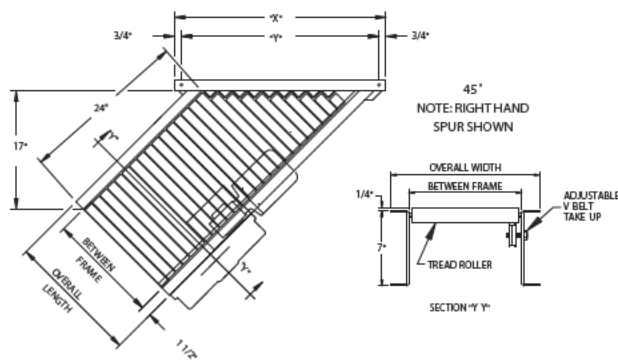
## "190CLRS" 30° CURVE SPUR



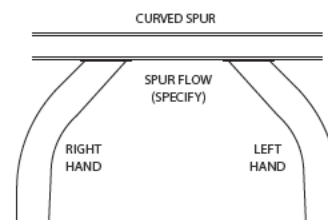
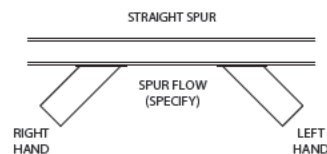
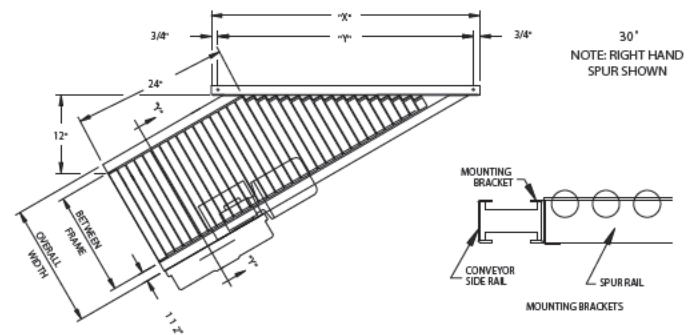
## "190CLRS" 45° CURVE SPUR



## "190CLRSS" 45° STRAIGHT SPUR



## "190CLRSS" 30° STRAIGHT SPUR



# MODEL "190LS"

## Line Shaft Live Roller Conveyor

- Low pressure accumulation
- Clean room installation
- Economical transportation conveyor
- Assembly conveyor



### STANDARD SPECIFICATIONS

**Driving Belts** -  $\frac{3}{16}$ " diameter round urethane "O" rings from drive shaft to tread rollers.

**Bed** - 7" x  $1\frac{1}{2}$ " x 12 gauge powder painted formed steel channel frame with heavy duty cross braces and splice plates.

**Rollers** - 1.9" diameter x 16 gauge galvanized steel tread rollers with  $\frac{7}{16}$ " hex shaft and sealed, greased for life bearings, spaced on 3" centers.

**Floor Supports** - Adjustable 31 $\frac{1}{2}$ " to 45 $\frac{1}{2}$ " from floor to top of tread roller. One support supplied at each end of conveyor and at each bed joint.

**Drive** - 2 foot module with motor and reducer. Drive module will be bolted to intermediate section.

**Drive Shaft** - 1" diameter steel shaft, driven by motor and reducer, runs full length of conveyor. Chain coupling supplied at bed joints to couple sections together.

**Drive Spools** - Delrin spools located on drive shaft supplies driving power to tread rollers.

**Drive Shaft Bearings** - Sealed, prelubricated, self aligning, precision ball bearings on drive shaft.

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

**Motor** -  $\frac{1}{2}$  HP 230/460/3-60 TE motor.

**Drive Guard** - Perforated metal guard full length of conveyor covers drive shaft and other moving drive components.

**Conveying Speed** - 60 FPM constant.

**Capacity** - 15 lbs. per tread roller maximum. Not to exceed Load Capacity Chart.

### OPTIONAL EQUIPMENT

**Conveying Speed** - Constant and variable speeds from 30 to 120 FPM available.

**Timing Belt Drive** - For speeds over 90 FPM a timing belt drive in lieu of #50 chain drive is recommended.

**Roller Centers** - Tread rollers can be placed on 2 $\frac{1}{4}$ ", 4", 6", or 8" centers. NOTE: Capacities change as roller centers change. See engineering section of price list for capacity changes.

**Floor Supports** - Lower or higher supports available. Minimum elevation with standard drive mounting is 18" from floor to top of rollers.

**Powered Right Angle Belt Transfer** - Air operated pop-up round belt transfer mounted in 32" long modular section, 75 lbs. maximum unit load.

**Package Stops** - Manual or air operated blade or roller stops available.

**Guard Rails** - Adjustable channel or solid fixed guard rails available.

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

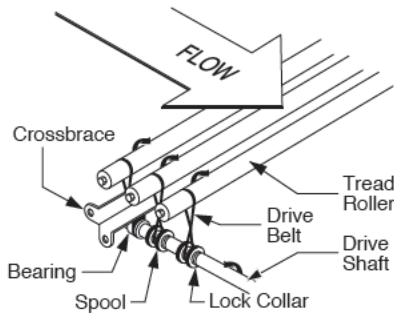
**Ceiling Hangers** -  $\frac{1}{2}$ " diameter threaded rods 8 feet long with locking nuts and mounting hardware.

**Jump Chain** - One-to-one chain drive moves drive shaft to opposite side for driving various optional accessories.

# MODEL "190LS"



Overall Length	Intermediate Length	Between Frames	15"	21"	27"	33"	39"
		Overall Frame Width	18"	24"	30"	36"	42"
5'	3'	<b>Weight (lbs.)</b>  <b>Weights Based on 3" Roller Centers</b>	224	260	295	329	364
10'	8'		361	428	491	553	616
15'	13'		498	595	686	776	868
18'	20'		635	762	882	1000	1120
25'	23'		773	930	1077	1224	1371
30'	28'		910	1097	1273	1448	1623
35'	33'		1047	1264	1468	1671	1875
40'	38'		1184	1432	1664	1895	2127
45'	43'		1322	1599	1859	2119	2379
50'	48'		1459	1766	2055	2342	2631
55'	53'		1596	1934	2250	2566	2883
58'	60'		1733	2101	2446	2790	3135
65'	63'		1871	2268	2641	3014	3387
70'	68'		2008	2436	2837	3237	3639
75'	73'		2145	2603	3032	3461	3891
80'	78'		2282	2770	3228	3685	4143
85'	83'		2420	2937	3423	3909	4394
90'	88'		2557	3105	3619	4132	4646
95'	93'		2694	3272	3815	4357	4898
100'	98'		2831	3439	4010	4580	5150

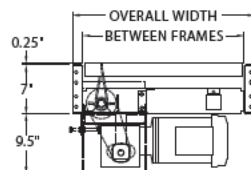
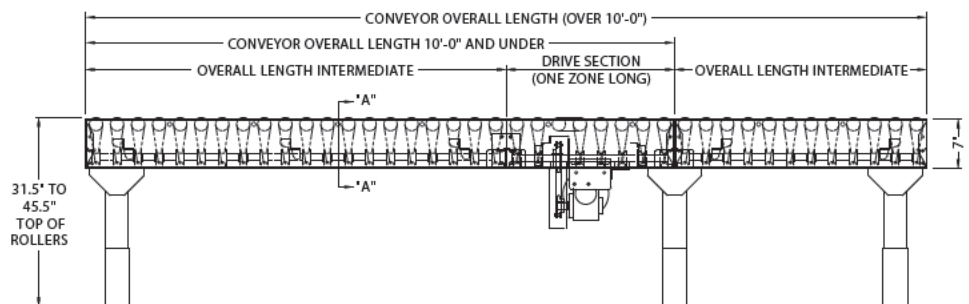


HP	Overall Frame Width 16" to 22"			Overall Frame Width 24" to 30"			Overall Frame Width 34" to 42"		
	Total Load (lbs.)			Total Load (lbs.)			Total Load (lbs.)		
	Up to 60'	Up to 90'	Up to 120'	Up to 60'	Up to 90'	Up to 120'	Up to 60'	Up to 90'	Up to 120'
1/2	1550	580	-	1340	250	-	1020	-	-
3/4	3310	2330	1360	3090	2010	920	2770	1530	280
1	*3600	4090	3110	*3600	3770	2680	*3600	3280	2040
1 1/2	-	*5400	6620	-	*5400	6190	-	*5400	5550
2	-	-	*7200	-	-	*7200	-	-	*7200

**\*NOTE:** Capacities based on 3" roller centers with all rollers driven. Rollers limited to 15 lbs. maximum live load per roller. See Engineering Section of Price List for capacities with other than 3" roller centers.

## OPERATIONAL SEQUENCE

- 1" diameter drive shaft is powered by motor reducer drive. Drive shaft is supported by bearings mounted to conveyor cross braces and coupled at bed joints with chain coupling.
- Drive spools are located on drive shaft and held in place with lock collars. When drive shaft turns, spools turn and by means of drive belt, transmits power to tread roller.
- When package flow is interrupted for accumulation, drive spool will slip on drive shaft eliminating power to tread roller.



# MODEL "190LSE"

## Line Shaft Live Roller Conveyor

- Zero pressure accumulation
- Clean room installation
- Easy installation
- True product singulation
- No mechanical sensor rollers
- Photo eye controlled



### STANDARD SPECIFICATIONS

**Driving Belts** -  $\frac{3}{16}$ " diameter round urethane "O" rings from drive shaft to tread rollers.

**Bed** - 7" x 1 $\frac{1}{2}$ " x 12 gauge powder painted formed steel channel frame with heavy duty cross braces and splice plates.

**Rollers** - 1.9" diameter x 16 gauge galvanized steel tread rollers with  $\frac{7}{16}$ " hex shaft and sealed, greased for life bearings, spaced on 3" centers.

**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 50 accumulation zones.

**Air Requirements** - 20 to 35 psi recommended operating pressure with free air consumption of .0062 cu. ft. per sensor operation.

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

**Filter/Regulator** - Supplied loose for mounting to conveyor side frame, with  $\frac{3}{8}$ " NPT ports.

**Guard Rails** - 1 $\frac{1}{2}$ " x 1 $\frac{1}{2}$ " x 12 gauge galvanized guard rails - both sides. NOTE: Product contact with guard rails will affect product flow.

**Floor Supports** - Adjustable 31 $\frac{1}{2}$ " to 45 $\frac{1}{2}$ " from floor to top of tread roller. One support supplied at each end of conveyor and at each bed joint.

**Drive** - 2 foot module with motor and reducer. Drive module will be bolted to intermediate section.

**Drive Shaft** - 1" diameter steel shaft, driven by motor and reducer, runs full length of conveyor. Chain coupling supplied at bed joints to couple sections together.

**Drive Spools** - Delrin spools located on drive shaft supplies driving power to tread rollers.

**Drive Shaft Bearings** - Sealed, prelubricated, self aligning, precision ball bearings on drive shaft.

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

**Motor** -  $\frac{1}{2}$  HP 230/460/3-60 TE motor.

**Drive Guard** - Expanded metal guard full length of conveyor covers drive shaft and other moving drive components.

**Conveying Speed** - 60 FPM constant.

**Capacity** - 15 lbs. per tread roller maximum. Not to exceed Load Capacity Chart.

### OPTIONAL EQUIPMENT

**Conveying Speed** - Constant and variable speeds from 30 to 120 FPM available.

**Timing Belt Drive** - For speeds 90 FPM and above a timing belt drive in lieu of #50 chain drive is recommended.

**Roller Centers** - 2 $\frac{1}{4}$ ", 4", 6", or 8" centers. NOTE: Capacities change as roller centers change. See engineering section of price list for capacity changes.

**Accumulation Zones** - 18" long, air operated. Conveyor frame lengths change with zone lengths. NOTE: Zone length must be evenly divisible by roller centers.

**Floor Supports** - Lower or higher supports available. Minimum elevation with standard drive mounting is 18" from floor to top of rollers.

**Powered Right Angle Belt Transfer** - Air operated pop-up round belt transfer mounted in 32" long modular section, 75 lbs. maximum unit load. - Reversing UBT is 39" long.

**Package Stops** - Manual or air operated, blade or roller stops available.

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

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

**Ceiling Hangers** -  $\frac{1}{2}$ " diameter threaded rods 8 feet long with locking nuts and mounting hardware.

**Jump Chain** - One-to-one chain drive moves drive shaft to opposite side for driving various optional accessories.

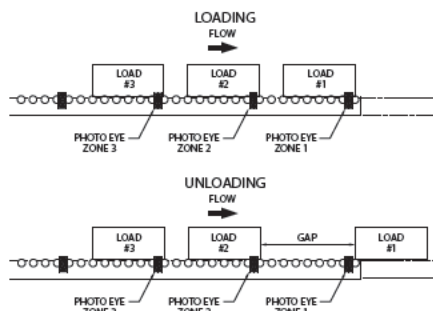
# MODEL "190LSE"



Overall Length	Intermediate Length	Between Frames	15"	21"	27"	33"	39"
		Overall Frame Width	18"	24"	30"	36"	42"
5'	3'	Weight (lbs.)  Weights Based on 3" Roller Centers	224	260	295	329	364
10'	8'		361	428	491	553	616
15'	13'		498	595	686	776	868
18'	20'		635	762	882	1000	1120
25'	23'		773	930	1077	1224	1371
30'	28'		910	1097	1273	1448	1623
35'	33'		1047	1264	1468	1671	1875
40'	38'		1184	1432	1664	1895	2127
45'	43'		1322	1599	1859	2119	2379
50'	48'		1459	1766	2055	2342	2631
55'	53'		1596	1934	2250	2566	2883
58'	60'		1733	2101	2446	2790	3135
65'	63'		1871	2268	2641	3014	3387
70'	68'		2008	2436	2837	3237	3639
75'	73'		2145	2603	3032	3461	3891
80'	78'		2282	2770	3228	3685	4143
85'	83'		2420	2937	3423	3909	4394
90'	88'		2557	3105	3619	4132	4646
95'	93'		2694	3272	3815	4357	4898
100'	98'		2831	3439	4010	4580	5150

## OPERATIONAL SEQUENCE

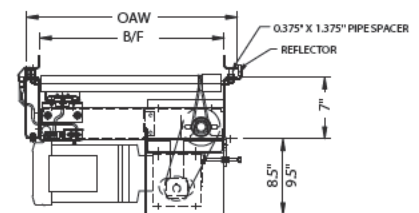
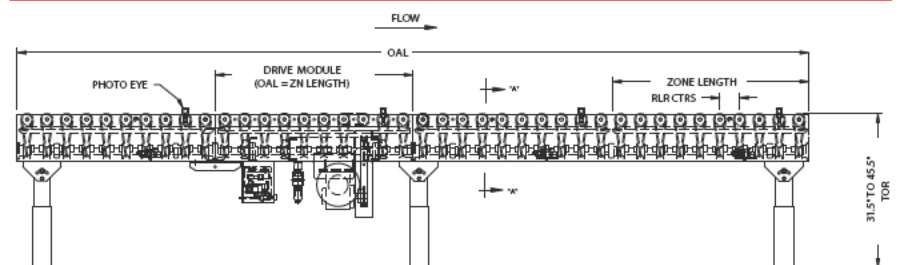
- Model "190LSE" is loaded at the infeed end of conveyor. The first load travels the entire length of the conveyor to Zone #1. If the photoelectric sensor in Zone #1 has been activated by an external signal (normally open contact, not supplied) the product will stop in Zone #1.
- The second load travels the length of the conveyor until it reaches Zone #2. If Zone #1 is occupied, the second load will stop in Zone #2. Load #3 will stop in Zone #3 and continue to accumulate at "zero pressure" until fully loaded.



- To unload, an external signal (normally open contact, not supplied) to the photoelectric sensor in Zone #1 will release the accumulation feature and allow the product in Zone #1 to leave the conveyor. The load in Zone #2 will not advance into Zone #1 until the load in Zone #1 has completely cleared Zone #1's photoelectric sensor; the third load will not advance into Zone #2 until the second load clears the photoelectric sensor in Zone #2. Once the first load clears the photoelectric sensor in Zone #1, the external signal must be restored to Zone #1's photoelectric sensor for the accumulation process to continue.

HP	Overall Frame Width 16" to 22"			Overall Frame Width 24" to 30"			Overall Frame Width 34" to 42"		
	Total Load (lbs.)			Total Load (lbs.)			Total Load (lbs.)		
	Up to 60'	Up to 90'	Up to 120'	Up to 60'	Up to 90'	Up to 120'	Up to 60'	Up to 90'	Up to 120'
1/2	1550	580	-	1340	250	-	1020	-	-
3/4	3310	2330	1360	3090	2010	920	2770	1530	280
1	*3600	4090	3110	*3600	3770	2680	*3600	3280	2040
1 1/2	-	*5400	6620	-	*5400	6190	-	*5400	5550
2	-	-	*7200	-	-	*7200	-	-	*7200

\*NOTE: Capacities based on 3" roller centers with all rollers driven. Rollers limited to 15 lbs. maximum live load per roller. See Engineering Section of Price List for capacities with other than 3" roller centers.



SECTION VIEW "A-A"

# MODEL "190LSC"-Curve MODEL "190LSCS"-Curve Spur MODEL "190LSS"-Straight Spur

- 5 bed widths
- Slave driven from Model "190LS"
- High speed capabilities



MODEL  
"190LSC"  
CURVE

## STANDARD SPECIFICATIONS

**Bed** - Roller bed with 2½" diameter tapered to 1⅞" diameter x 14 gauge galvanized and 1.9" diameter x 16 gauge galvanized tread rollers. Mounted in 7" x 12 gauge powder painted formed steel channel frame.

**Floor Supports** - Adjustable 31½" to 45½" from floor to top of rollers. One support at ends of 190LSC (Curve), 190LSCS (Curve Spur) and 190LSS (Straight Spur). Single leg supplied for center of outside rail on 90° 190LSC only.

**Slave Driven** - Curves or spurs are slave driven from drive shaft of Model 190LS conveyor. Shafts are coupled by chain coupling at bed joints.

**Drive Shaft** - 1" diameter steel shaft extends full length of conveyor, coupled with universal joints ("U" joints) at necessary intervals.

**Drive Spools** - 2" diameter Delrin spool held in place on drive shaft with "snap-on" lock collars.

**Drive Guard** - Underside of drive shaft with spools and drive belts guarded full length of conveyor.

**Drive Belts** - ¾" diameter urethane belt from drive spool to tread roller.

**Bearings** - Tread rollers, pre-lubricated ball bearings. Sealed, pre-lubricated, self-aligning ball bearings on drive shaft.

**Butt Couplings** - Standard for connecting to 190LS.

**Capacity** - See Load Capacity Chart.

## OPTIONAL EQUIPMENT

**Conveying Speed** - Other constant and variable speeds from 30 to 120 FPM.

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

**Floor Supports** - Lower or higher supports available. Minimum elevation with standard drive mounting is 18" to top of rollers.

**Ceiling Hangers** - ½" diameter x 8'0" long threaded rods with locking nuts and mounting hardware.

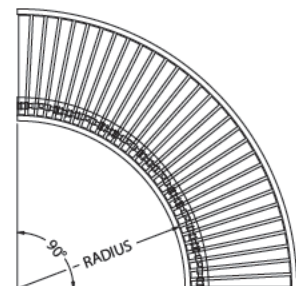
## Load Capacity Chart

Between Rail Width	190LSC	190LSCS		190LSS	
	Capacity Per Curve (lbs.)	Capacity Per Spur (lbs.)		Capacity Per Straight Spur (lbs.)	
		45°	30°	45°	30°
15"	240	300	285	375	480
21"-27"	300	405	435		
33"-39"	450	540	720		

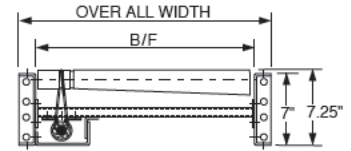
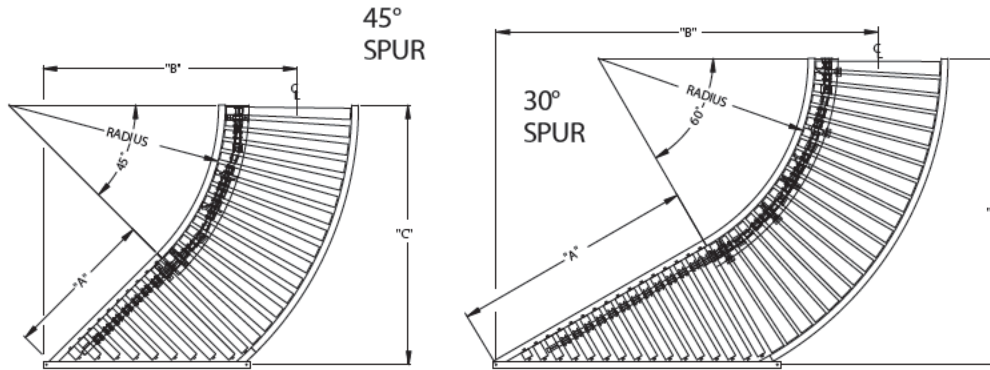
## MODEL "190LSC"- CURVE

Between Rail Width	Overall Frame Width	"R"	Total Number of Rollers				Weight (lbs.)			
			90°	60°	45°	30°	90°	60°	45°	30°
15"	18"	32½"	20T	20T*	10T	10T*	208	189	170	140
21"	24"	32½"	20T	20T*	10T	10T*	244	221	198	162
27"	30"	32½"	20T	20T*	10T	10T*	283	245	227	187
33"	36"	48"	30T	20T	15T	10T	430	370	309	246
39"	42"	48"	30T	20T	15T	10T	480	382	344	271

\*Available only in 48" Radius.



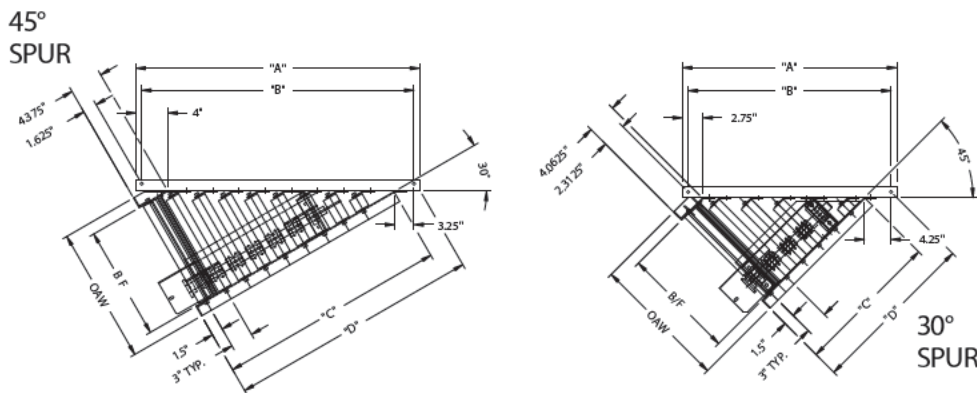
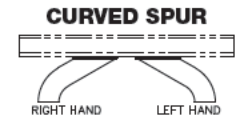
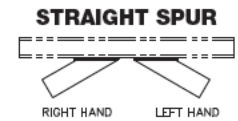
# MODEL "190LSC"-Curve MODEL "190LSCS"-Curve Spur MODEL "190LSS"-Straight Spur



The "190LSCS" Spur, and "190LSS" Straight Spur have been designed to be slave driven from the "190LS" conveyor. Curves are used where turns in the conveyor line are necessary. Spurs are used in diverging or converging applications.

## MODEL "190LSCS" - 45° & 30° CURVE SPURS

Between Frame Width	Overall Frame Width	Radius		"A"		"B"		"C"		Weight (lbs.)	
		45°	30°	45°	30°	45°	30°	45°	30°	45°	30°
15"	18"	32.5"	48"	22.1875"	33.0"	34.125"	60.3125"	37.25"	57.75"	200	230
21"	24"	32.5"	48"	28.1875"	43.5"	41.3125"	72.3125"	41.5"	63.0"	229	261
27"	30"	32.5"	48"	34.1875"	54.0"	48.5625"	84.3125"	45.75"	68.125"	259	293
33"	36"	48.0"	48"	40.1875"	64.25"	60.375"	96.3125"	61.0"	73.3125"	372	457
39"	42"	48.0"	48"	46.1875"	74.75"	67.625"	108.3125"	65.25"	78.5"	408	498



- Specify "right" or "left" hand unit.
- Specify direction of flow.
- Specify conveyor to be attached to in order for proper attachment bracket to be furnished.

## MODEL "190LSS" - 45° & 30° STRAIGHT SPURS

Between Frame Width	Overall Frame Width	"A"		"B"		"C"		"D"		Weight (lbs.)	
		45°	30°	45°	30°	45°	30°	45°	30°	45°	30°
15"	18"	28.25"	37.5"	26.75"	36"	19.875"	30.25"	22.1875"	33.0"	157	198
21"	24"	36.75"	49.5"	35.25"	48"	25.1875"	40.5"	28.1875"	43.5"	178	222
27"	30"	45.25"	61.5"	43.75"	60"	31.1875"	51.0"	34.1875"	54.0"	200	245
33"	36"	53.75"	73.5"	52.25"	72"	37.1875"	61.5"	40.1875"	64.25"	218	264
39"	42"	62.25"	85.5"	60.75"	84"	43.1875"	72.0"	46.1875"	74.75"	234	280



# MODEL "22CRR"

## Chain Driven Live Roller Conveyor



- Wash down operations
- Oily conditions
- Positive drive — no belt slippage

### STANDARD SPECIFICATIONS

**Drive Chain** - No. 40 roller chain on straight sections.

**Bed** - Conveying surface width 14", 16", 18", 24", 28", and 34". 3½" x 1½" x 10 gauge powder painted formed steel channel on one side, 5" x 1½" x 10 gauge formed steel channel on chain drive side. Sections are bolted together with butt couplings and floor supports.

**Tread Rollers** - 2" diameter x 12 gauge steel with #40 sprockets welded to roller tube, 7/16" hex shafts. Rollers spaced on 4", 6", 8" and 12" centers. Rollers are roller to roller driven.

**Chain Guard** - Chain guard is mounted to frame to totally enclose drive chain.

**Center Drive** - Mounted underneath conveyor, near center of section. Can be placed most anywhere in conveyor length. Specify.

**Floor Supports** - Adjustable 28" to 42" from floor to top of rollers. One support supplied at each end of conveyor and at each bed joint.

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

**Motor** - ½ HP 230/460/3/60 TE motor.

**Roller Speed** - 60 FPM constant.

**Capacity** - Maximum load 150 lbs. per foot; maximum unit load 500 pounds. 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 are available. Minimum elevation 17½" from floor to top of rollers.

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

**Side Mounted Drive** - Drive mounted to side of conveyor section. Specify side. Minimum elevation - 7" from floor to top of rollers.

**Rollers Set Low** - Tread rollers mounted low in 4½" x 10 gauge formed steel channel frame to form ¾" high guard rails.

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

**Roller Speed** - Constant and variable roller speeds available.

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

# MODEL "22CRR"



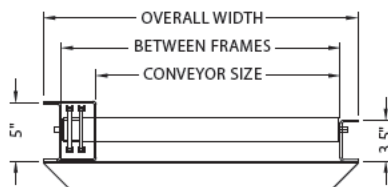
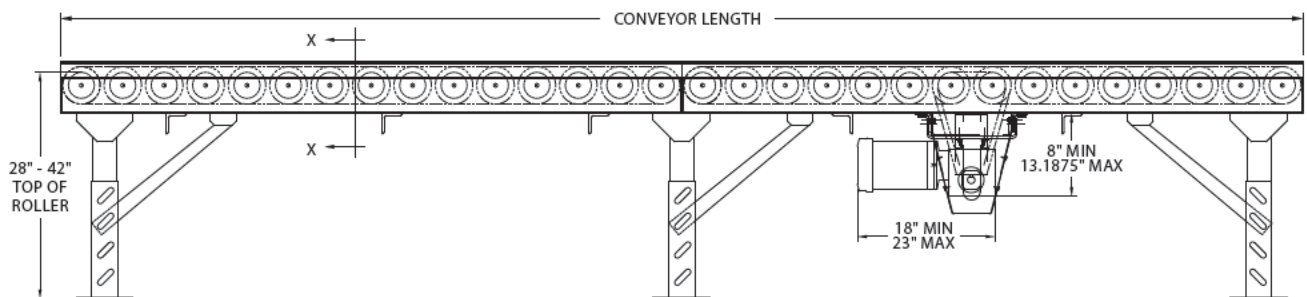
Conveyor Length Size "A"	Conveying Surface		14"	16"	18"	24"	28"	34"
	Width Between Frames		17"	19"	21"	27"	31"	37"
	Overall Width		20"	22"	24"	30"	34"	40"
5'	Weight (lbs.) Based On 4" Roller Centers		393	406	418	454	477	507
10'			526	557	576	633	671	718
15'			692	740	759	840	894	960
20'			825	883	917	1019	1088	1171
25'			991	1058	1100	1226	1311	1413
30'			1124	1209	1258	1405	1505	1624
40'			1423	1535	1599	1791	1922	2077
50'			1722	1861	1940	2177	2339	2530
60'			2021	2187	2280	2563	2756	2983
70'			2320	2513	2622	2949	3173	3436
80'	2619	2839	2963	3335	3590	3389		
90'	2918	3165	3304	3721	4007	4342		
100'	3217	3491	3645	4107	4424	4795		

**FOR 6", 8" OR 12" CENTERS DEDUCT THE WEIGHTS BELOW**

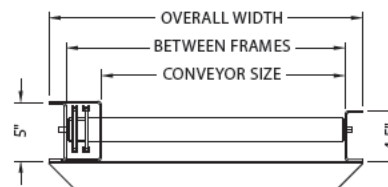
Roller Centers	Between Frames Bed Length	17" B.F.		19" B.F.		21" B.F.		27" B.F.		31" B.F.		37" B.F.	
		5'	10'	5'	10'	5'	10'	5'	10'	5'	10'	5'	10'
6"	Weight Deduction (lbs.)	-25	-50	-28	-55	-30	-59	-36	-72	-40	-80	-45	-89
8"		-37	-74	-41	-81	-44	-87	-53	-105	-59	-118	-66	-132
12"		-49	-98	-55	-108	-59	-116	-71	-142	-79	-158	-89	-176

## Load Capacity Chart

60 FPM	
H.P.	TOTAL LOAD
1/2	1625 Lbs.
3/4	2375 Lbs.
1	3025 Lbs.
1 1/2	3900 Lbs.



SET HIGH  
SECTION "X-X"



SET LOW  
SECTION "X-X"

# MODEL "22CRRCT"

## Chain Driven Live Roller Curve



- Wash down operations
- Oily conditions
- Positive drive

### STANDARD SPECIFICATIONS

**Drive Chain** - No. 40 circular roller chain.

**Bed** - Conveying surface width 14", 16", 18", 24", 28", and 34". 2 1/2" diameter to 1 1/16" diameter tapered rollers, 7/16" hex shafts. Mounted in 10 gauge powder painted formed steel channel frame. Roller to roller driven.

**Chain Guard** - Chain guard is mounted above frame to totally enclose drive chain.

**Center Drive** - Mounted underneath conveyor in center of curve.

**Floor Supports** - Adjustable 28" to 42" from floor to top of rollers. One support at each end and center leg on outer rail.

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

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

**Roller Speed** - 60 FPM.

**Capacity** - 850 pounds distributed live load.

### OPTIONAL EQUIPMENT

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

**Floor Supports** - Lower or higher are available. Minimum elevation, 18" from floor to top of rollers.

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

**Side Mounted Drive** - Drive mounted to side of conveyor bed. Minimum elevation to top of rollers is 6". Specify side.

**Rollers Set Low** - Tread rollers mounted low in 4 1/2" x 10 gauge formed steel channel frame to form 3/4" high guard rails.

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

**Roller Speed** - Constant and variable roller speeds available.

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

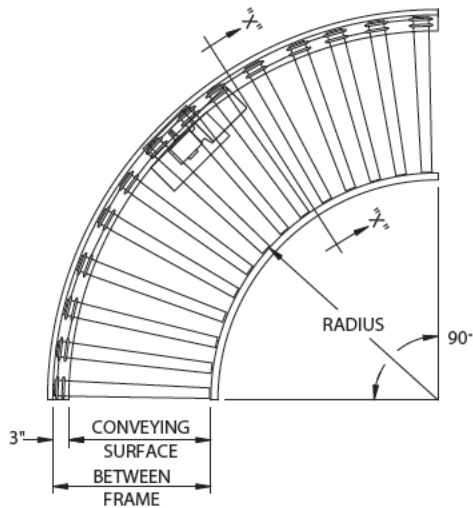
**22CRRCT** - Can be slave driven.

# MODEL "22CRRCT"

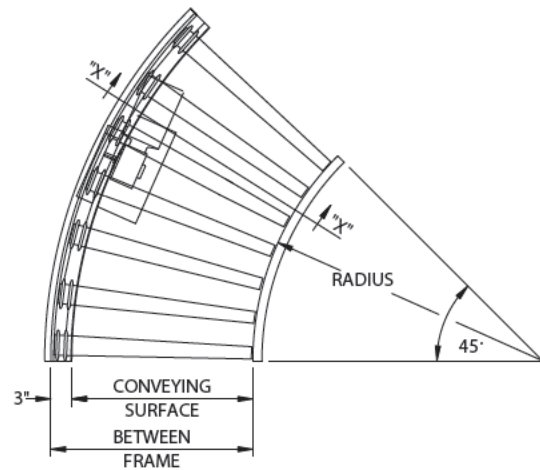


Conveying Surface	Width Between Frames	Overall Width	"R"	Number of Rollers			Weight (lbs.)		
				90°	45°	30°	90°	45°	30°
14"	17"	20"	32½"	14	7	6	325	335	300
16"	19"	22"					333	343	308
18"	21"	24"					341	351	316
24"	27"	30"					365	375	340
28"	31"	34"	48"	21	14	9	395	405	375
34"	37"	40"					419	429	399

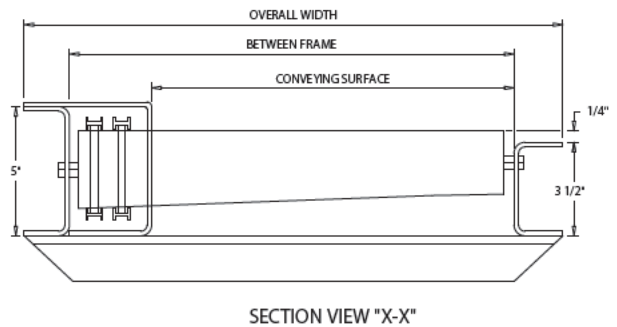
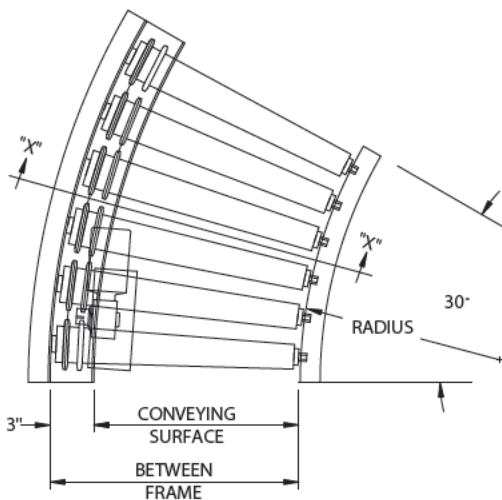
**MODEL "22CRRCT" - 90° CURVE**



**MODEL "22CRRCT" - 45° CURVE**

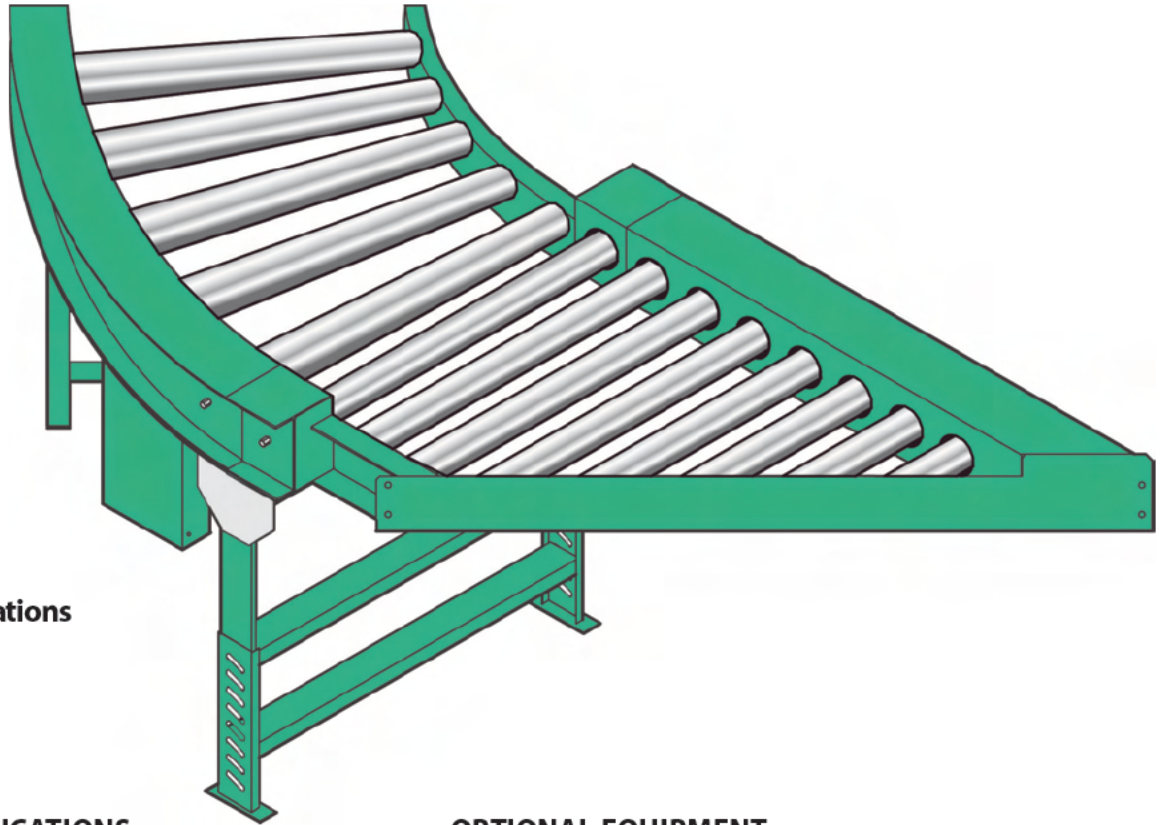


**MODEL "22CRRCT" - 30° CURVE**



# MODEL "22CRRCTS"

## Chain Driven Live Roller Spur



- Wash down operations
- Oily conditions
- Positive drive

### STANDARD SPECIFICATIONS

**Drive Chain** - No. 40 circular roller chain.

**Bed** - Conveying surface width 14", 16", 18", 24", 28" and 34". 2½" diameter to 1⅞" diameter tapered rollers, 7/16" hex shafts. Mounted in 10 gauge powder painted formed steel channel frame. Rollers are roller to roller driven.

**Rollers** - Tapered rollers in curve sections; Straight rollers in straight sections.

**Chain Guard** - Chain guard is mounted above frame to totally enclose drive chain.

**Center Drive** - Mounted underneath conveyor in center of curve.

**Floor Supports** - Adjustable 28" to 42" from floor to top of rollers. One support at each end and center leg on outer rail.

**Motor** - ½ HP 230/460-3-60 TE motor.

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

**Roller Speed** - 60 FPM.

**Capacity** - 850 lbs. total distributed live load.

### OPTIONAL EQUIPMENT

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

**Floor Supports** - Lower or higher are available. Minimum elevation, 18" from floor to top of rollers.

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

**Side Mounted Drive** - Drive mounted to side of conveyor bed. Minimum elevation 6". Specify which side drive is to be located.

**Rollers Set Low** - Tread rollers mounted low in 4½" x 10 gauge formed steel channel frame to form ¾" high guard rails.

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

**Roller Speed** - Constant and variable roller speeds available.

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

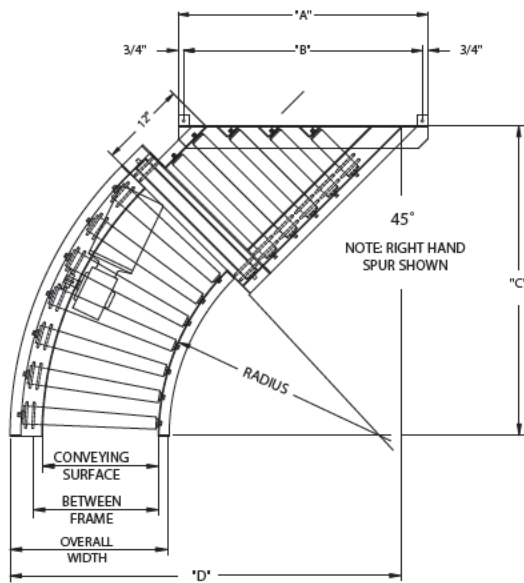
# MODEL "22CRRCTS"



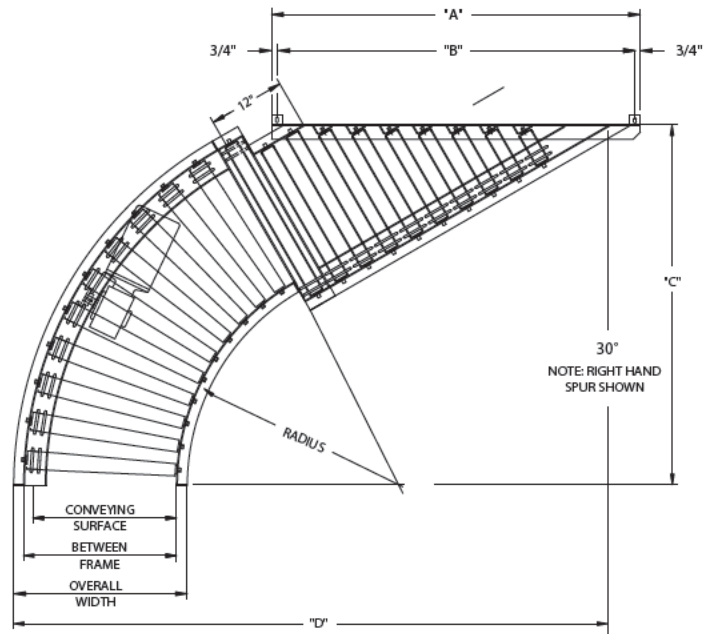
Conveying Surface	Width Between Frames	Overall Width	"R"	"A"		"B"		"C"		"D"		Number of Rollers*		Weight (lbs.)	
				45°	30°	45°	30°	45°	30°	45°	30°	45°	30°	45°	30°
14"	17"	20"	32 1/2"	31 1/2"	43"	30"	41 1/2"	43 9/16"	49"	48 9/16"	68 11/16"	6S-7T	9S-9T	275	325
16"	19"	22"		34 1/2"	47"	33"	45 1/2"	44 15/16"	50 11/16"	51 15/16"	75 11/16"	7S-7T	9S-9T	285	335
18"	21"	24"		37"	51"	35 1/2"	49 1/2"	46 3/8"	52 7/16"	55 3/8"	80 11/16"	8S-7T	10S-9T	310	360
24"	27"	30"		45 1/2"	63"	44"	61 1/2"	50 5/8"	57 5/8"	65 5/8"	95 11/16"	9S-7T	11S-9T	355	405
28"	31"	34"	48"	51"	71"	49 1/2"	69 1/2"	64 3/8"	68 1/2"	77"	113 3/8"	10S-10T	12S-14T	380	430
34"	37"	40"		59 1/2"	83"	58"	81 1/2"	68 3/8"	73 3/4"	87 1/4"	128 3/8"	11S-10T	13S-14T	415	465

\* S = Straight Roller T = Tapered Roller

MODEL "22CRRCTS" - 45° CURVE SPUR



MODEL "22CRRCTS" - 30° CURVE SPUR



# MODEL "251CRR" and MODEL "267CRR"

## Chain Driven Live Roller Conveyor



- Oily conditions
- Pallets
- Drums
- Positive drive

### STANDARD SPECIFICATIONS

**Bed** - Conveying surface width 28", 34", 40", 46", 52", 58", and 64". 2½" diameter x 11 gauge and 2⅝" x 7 gauge steel tread rollers, 1½" hex shafts. No. 50 chain is used on 5", 7½", 10" roller centers only. No. 60 chain is used on 6", 7½", and 12" centers only. Tread rollers mounted in 4" and 6" x 4 gauge powder painted formed steel channel frame. Sections are bolted together with butt couplings and floor supports.

**Drive Chain** - No. 50 roller chain or No. 60 roller chain can be used with either the 251CRR or 267CRR as above.

**Floor Supports** - Heavy duty supports are adjustable 30¼" to 40" from floor to top of roller. One support at every bed joint and each end of conveyor.

**Center Drive** - Mounted underneath conveyor, center of section. Can be placed most any where in conveyor length.

**Bearings** - Sealed, prelubricated ball bearings.

**Chain Guard** - Lower chain guard is mounted on bottom of roller frame, and upper chain guard is mounted above roller frame to totally enclose drive chain.

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

**Motor** - ¾ HP 230/460-3-60 TE motor.

**Speed** - 30 FPM.

**Capacity** - Maximum load per linear foot of conveyor; 300 lbs. with supports on 10' centers, 1000 lbs. with supports on 5'0" centers.

### OPTIONAL EQUIPMENT

**Floor Supports** - Lower or higher supports are available. Minimum elevation, 18" from floor to top of rollers.

**Side Mounted Drive** - Motor-reducer unit can be mounted to side of conveyor frame. Drive is higher than conveyor frame. Minimum elevation to top of rollers is 7".

**Roller Set Low** - 5" deep x 4 gauge non-driven side rail to provide ¾" high guard rail.

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

**Roller Speed** - Constant and variable speeds available.

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

# MODEL "251CRR" and MODEL "267CRR"



## MODEL "251CRR" & "267CRR" WEIGHTS

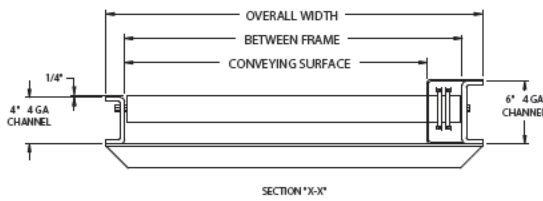
Conveyor Length	Conveying Surface	28"		34"		40"		46"		52"		58"		64"	
	Width Between Frames	31"		37"		43"		49"		55"		61"		67"	
	Overall Width	34"		40"		46"		52"		58"		64"		70"	
	Model	251	267	251	267	251	267	251	267	251	267	251	267	251	267
5'	Weight Based on 5" Roller Centers (lbs.)	392	458	430	501	463	544	496	587	529	630	562	673	595	716
10'		679	804	744	886	806	967	868	1048	930	1130	992	1212	1054	1294
15'		964	1152	1059	1272	1149	1391	1239	1510	1329	1629	1419	1748	1509	1867
20'		1498	1533	1567	1688	1814	1835	2061	2182	2308	2429	2555	2676	2755	2923
25'		1818	1846	2003	2043	2178	2238	2353	2433	2468	2628	2583	2823	2988	3018
30'		2102	2192	2317	2428	2521	2661	2725	2894	2929	3127	3133	3366	3337	3599
40'		2671	2886	2946	3199	3207	3508	3468	3817	3729	4126	3990	4435	4251	4744
50'		3240	3580	3575	3970	3893	4355	4211	4740	4529	5125	4847	5510	5165	5895
60'		3809	4274	4204	4741	4579	5202	5040	5663	5502	6124	5964	6585	6426	7046
70'		4378	4968	4833	5512	5265	6049	5697	6586	6129	7123	6561	7660	6993	8197
80'	4947	5652	5462	6283	6294	6896	7126	7509	7958	8122	7590	8735	9622	9348	
90'	5516	6376	6091	7054	6673	7743	7255	8432	7837	9121	8419	9810	9001	10399	
100'	6085	7070	6720	7825	7359	8590	7998	9355	8637	10120	9276	10885	9915	11650	

### FOR 6", 7 1/2", 10", 12" CENTERS DEDUCT WEIGHT LISTED BELOW - 5'0" OAL BED SECTION

Roller Centers	Width Between Frames	31"		37"		43"		49"		55"		61"		67"	
	Model	251	267	251	267	251	267	251	267	251	267	251	267	251	267
6"	Weight Deduction (lbs.)	55	74	64	85	72	98	80	111	88	124	96	137	104	150
7 1/2"		55	74	64	85	72	98	80	111	88	124	96	137	104	150
10"		82	109	96	127	109	145	122	163	135	181	148	199	161	217
12"		94	116	110	130	134	152	158	174	182	196	206	218	230	240

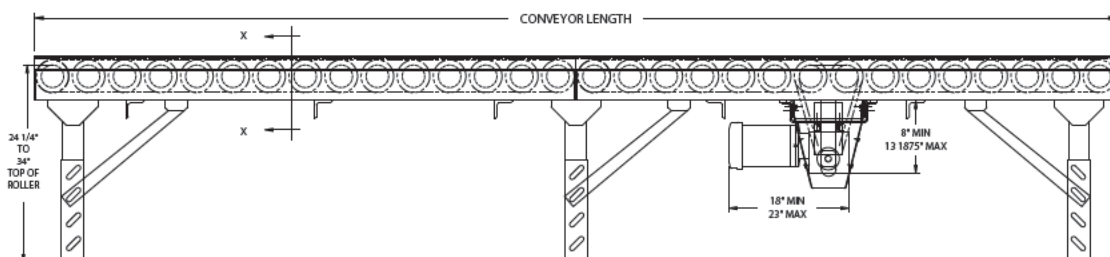
### FOR 6", 7 1/2", 10", 12" CENTERS DEDUCT WEIGHT LISTED BELOW - 10'0" OAL BED SECTION

Roller Centers	Width Between Frames	31"		37"		43"		49"		55"		61"		67"	
	Model	251	267	251	267	251	267	251	267	251	267	251	267	251	267
6"	Weight Deduction (lbs.)	108	146	127	170	145	194	163	218	181	242	199	266	217	290
7 1/2"		108	146	127	170	145	194	163	218	181	242	199	266	217	290
10"		168	184	190	214	212	244	234	274	256	304	278	334	300	364
12"		189	218	220	254	251	290	282	336	313	376	344	416	375	456



### Load Capacity Chart 30 FPM

Total Distributed Live Load		
HP	Up to 40' Long	Up to 100' Long
3/4	6000 lbs.	2800 lbs.
1	9000 lbs.	6000 lbs.
1 1/2	15000 lbs.	12000 lbs.
2	22000 lbs.	18000 lbs.





# MODEL "251CRR-3"

## Chain Driven Live Roller - 3" Centers



- Ideal for slip sheet applications
- 3" roller centers
- Handles pallets the "Hard Way"
- 4,000 lbs. capacity

### STANDARD SPECIFICATIONS

**Bed** - Conveying surface width 16", 20", 24", 28", 30", 34", 36", 40", 44", 48", 52", and 56". Heavy duty 4" and 4<sup>3</sup>/<sub>4</sub>" deep x 4 gauge powder painted formed steel channel frame with heavy duty cross braces. Frames are bolted together with butt couplings and floor supports.

**Rollers** - 2<sup>1</sup>/<sub>2</sub>" diameter x 11 gauge steel rollers, grease packed and labyrinth sealed bearing, 1<sup>1</sup>/<sub>16</sub>" hex shaft. Rollers are spaced on 3" centers and set 1<sup>1</sup>/<sub>4</sub>" high on side rail opposite chain drive.

**Drive Chain** - RC40 chain is used for roller connections.

**Floor Supports** - Heavy duty supports are adjustable 24<sup>1</sup>/<sub>2</sub>" to 34" from floor to top of roller. One support at every bed joint and end of conveyor. Formed angle knee braces are supplied for each support.

**Center Drive** - Mounted underneath conveyor near center of conveyor length. Minimum elevation with standard drive mounting is 18" to top of roller.

**Bearings** - Sealed prelubricated ball bearings.

**Chain Guard** - Chain guard is on one side only, extends 7<sup>7</sup>/<sub>8</sub>" above top of rollers. Lower chain guard is mounted on bottom of conveyor frame. Upper chain guard is mounted to top of conveyor frame to totally enclose drive chains.

**Speed Reducer** - Heavy duty, sealed worm gear reducer.

**Motor** - 3<sup>1</sup>/<sub>4</sub> HP 230/460-3-60 TE motor.

**Speed** - 30 FPM.

**Capacity** - 4,000 lbs. maximum distributed live load on any conveyor length.

**Maximum Conveyor Length** - Maximum conveyor length with one drive not to exceed 40 feet.

### OPTIONAL EQUIPMENT

**Floor Supports** - Lower or higher floor supports are available.

**Side Mounted Drive** - Motor-reducer unit can be mounted to side of conveyor frame. Drive is higher than conveyor frame. Minimum elevation to top of roller is 7".

**Conveyor Speed** - Other constant and variable speeds available. Contact factory.

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

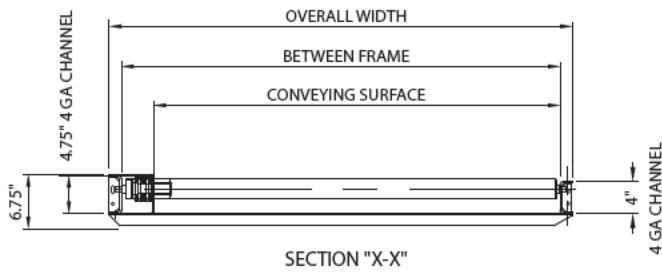
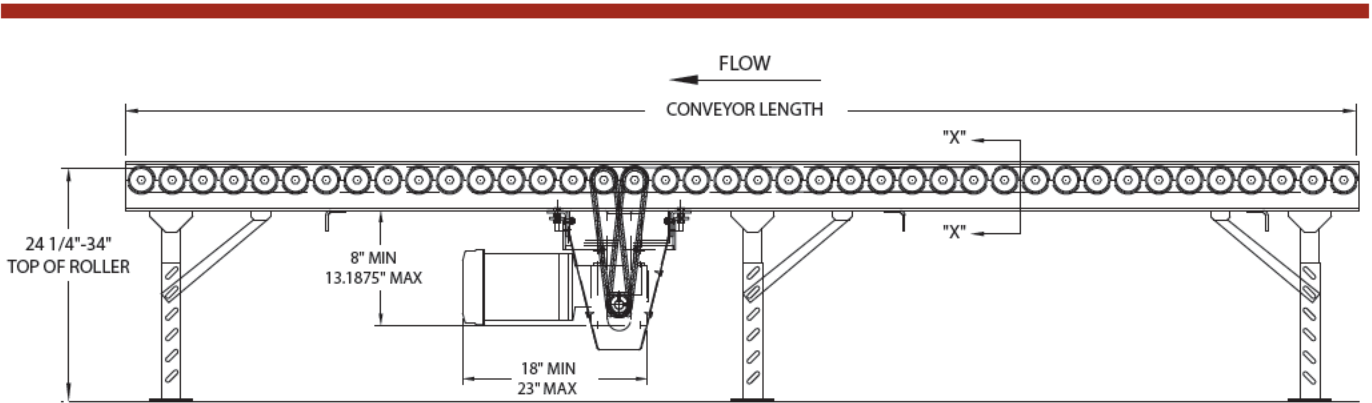
**Electrical Controls** - Magnetic starters and push button stations; manual motor starters with overload protection, others.

**Rollers Set Low** - Rollers mounted in 4<sup>3</sup>/<sub>4</sub>" deep channel both sides. Rollers set low 3<sup>5</sup>/<sub>8</sub>".

# MODEL "251CRR-3"



Bed Length	Conveying Surface	16"	20"	24"	28"	30"	34"	36"	40"	44"	48"	52"	56"
	Between Frames	20"	24"	28"	32"	34"	38"	40"	44"	48"	52"	56"	60"
	Overall Width	23"	27"	31"	35"	37"	41"	43"	47"	51"	55"	59"	63"
5'	Weights (lbs.)	446	480	516	551	568	604	623	656	691	727	763	799
10'		742	810	882	952	986	1058	1096	1162	1232	1304	1376	1448
15'		1038	1140	1248	1353	1404	1512	1569	1668	1773	1881	1989	2097
20'		1334	1470	1614	1754	1822	1966	2042	2174	2314	2458	2602	2746
25'		1630	1800	1980	2155	2240	2420	2515	2680	2855	3035	3215	3395
30'		1926	2130	2346	2556	2658	2874	2988	3186	3396	3612	3828	4044
35'		2222	2460	2712	2957	3076	3328	3461	3692	3937	4189	4441	4693
40'		2518	2790	3078	3358	3494	3782	3934	4198	4478	4766	5054	5342



# MODEL "251CRRC"

## Chain Driven Live Roller Conveyor



- Oily conditions
- Pallets
- Drums
- Positive drive

**NOTE:** Photo shows optional tapered rollers driven on outside rail.

### STANDARD SPECIFICATIONS

**Bed** - Conveying surface width 28", 34", 40", 46", 52", 58" and 64". 2 1/2" diameter x 11 gauge steel tread rollers, 1/2" hex shaft. Tread rollers mounted in 4" and 6" x 4 gauge powder painted formed steel channel frame. Sections are bolted together with butt couplings and floor supports.

**Drive Chain** - No. 50 circular roller chain.

**Floor Supports** - Heavy duty supports are adjustable 30 1/4" to 40" from floor to top of roller. One support at each end of conveyor and one center leg with knee brace.

**Center Drive** - Mounted underneath conveyor.

**Bearings** - Sealed, prelubricated ball bearings.

**Chain Guard** - Lower chain guard is mounted on bottom of roller frame, and upper chain guard is mounted above roller frame to totally enclose drive chain.

**Speed Reducer** - Heavy duty worm gear C-Face mounted.

**Motor** - 3/4 HP 230/460-3-60 TE motor.

**Speed** - 30 FPM.

**Capacity** - 4,000 pounds distributed live load.

### OPTIONAL EQUIPMENT

**Floor Supports** - Lower or higher supports are available. Minimum elevation, 18" from floor to top of rollers.

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

**Side Mounted Drive** - Motor reducer unit can be mounted to side of conveyor frame. Drive is higher than conveyor frame. Minimum elevation to top of rollers is 7".

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

**Roller Speed** - Constant and variable speeds available.

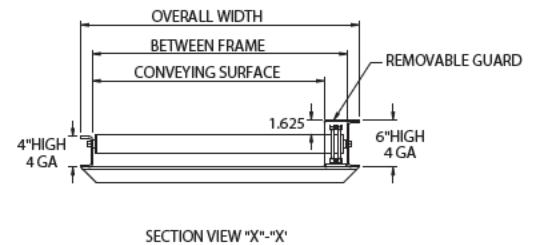
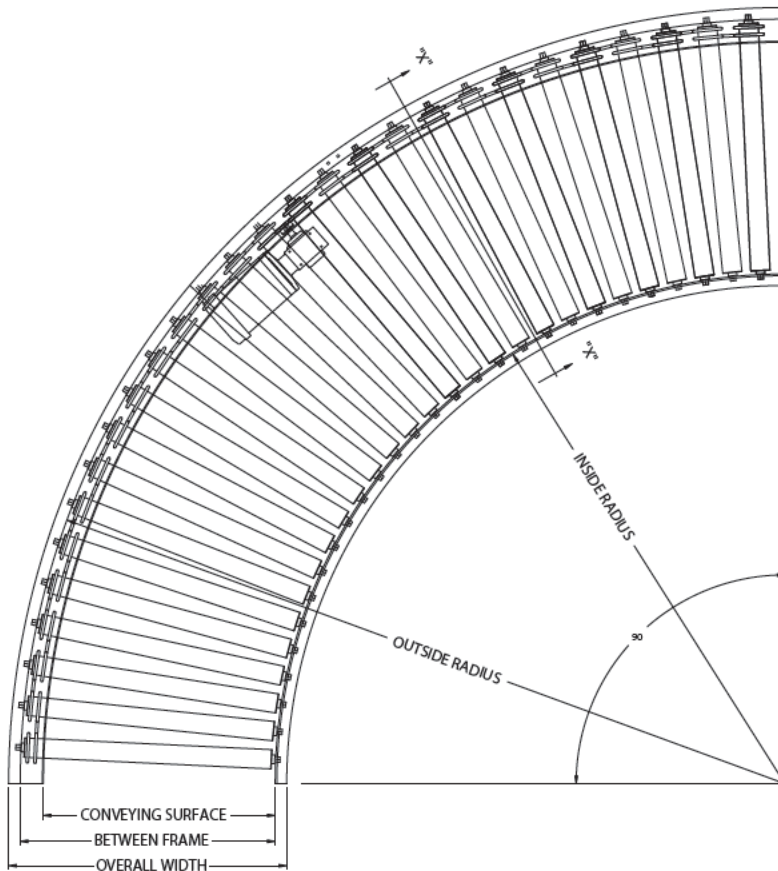
**Rollers Set Low** - 5" deep x 4 gauge non-driven side rail to provide 3/4" high guard rail.

**Rollers** - Tapered rollers available. Requires different size frame.

# MODEL "251CRRC"



Conveying Surface Width	Between Rail Width	Overall Bed Width	Outside Radius "OR"	Inside Radius "IR"	Number of Rollers	Weight (lbs.)
28"	31"	34"	99"	68"	28	809
34"	37"	40"		62"		903
40"	43"	46"		56"		968
46"	49"	52"		50"	21	1033
52"	55"	58"		44"		1098
58"	61"	64"		38"	19	1163
64"	67"	70"		32"		1228



# MODEL "251CRRCT"

## Chain Driven Live Roller Conveyor



- Pallets
- Drums
- Positive drive
- Oily conditions

### STANDARD SPECIFICATIONS

**Bed** - Conveying surface width 28", 34", 40", 46", 52", 58" and 64". Tapered tread rollers mounted in 4" and 6" x 4 gauge powder painted formed steel channel frame. Sections are bolted together with butt couplings and floor supports.

**Drive Chain** - No. 50 roller chain.

**Floor Supports** - Heavy duty supports are adjustable 30<sup>1</sup>/<sub>4</sub>" to 40" from floor to top of roller. One support at each end of conveyor and one center leg with knee brace.

**Center Drive** - Mounted underneath conveyor.

**Bearings** - Sealed, prelubricated ball bearings.

**Chain Guard** - Lower chain guard is mounted on bottom of roller frame, and upper chain guard is mounted above roller frame to totally enclose drive chain.

**Speed Reducer** - Heavy duty worm gear C-Face mounted.

**Motor** - <sup>3</sup>/<sub>4</sub> HP 230/460/3-60 TE motor.

**Capacity** - 4000 lbs. distributed live load.

**Speed** - 30 FPM.

### OPTIONAL EQUIPMENT

**Floor Supports** - Lower or higher supports are available. Minimum elevation, 18" from floor to top of rollers.

**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.

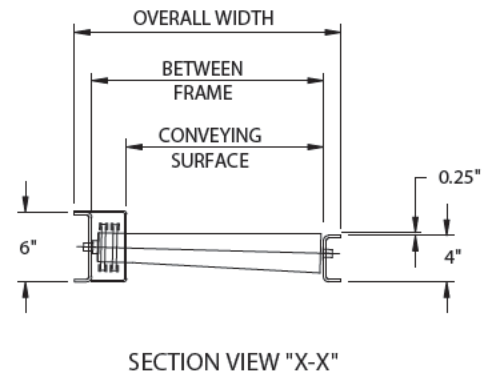
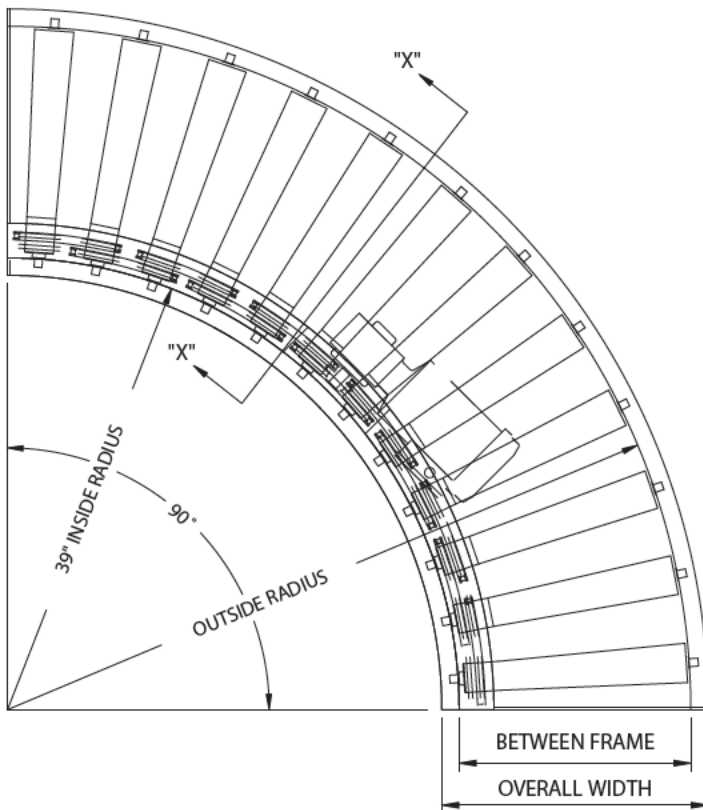
**Roller Speed** - Constant and variable speeds available.

**Rollers Set Low** - 5" deep x 4 gauge non-driven side rail to provide <sup>3</sup>/<sub>4</sub>" high guard rail.

# MODEL "251CRRCT"



Conveyor Surface	Between Frames	Overall Width	Outside Radius	Weights (lbs.)		Tread Roller Taper Dimensions (Nominal)
				90°	45°	
28"	31"	34"	70"	732	600	2½" to 4"
34"	37"	40"	76"	796	648	2½" to 4½"
40"	43"	46"	82"	860	696	2½" to 4¾"
46"	49"	52"	88"	924	744	2½" to 5"
52"	55"	58"	94"	988	792	2½" to 5"
58"	61"	64"	100"	1052	840	2½" to 5"
64"	67"	70"	106"	1116	888	2½" to 5"



# MODEL "350CRR"

Heavy Duty Chain Driven Live Roller Conveyor



- Heavy duty conveying
- Positive drive
- Pallets
- Heavy drums
- Reversible drums

## STANDARD SPECIFICATIONS

**Bed** - Conveying surface width 19", 27", 29", 33", 41", 47", 53" and 55". 6" x 8.2 lb. and 8" x 11.5 lb. powder painted structural channel frame with powder painted structural channel cross braces in each section. Sections are 5 feet long and bolted together with butt couplings and floor supports.

**Tread Rollers** - 3 1/2" diameter x .30 wall steel tread rollers spaced on 6" or 12" centers, No. 80 sprockets, 1 1/16" hex shaft.

**Drive Chain** - No. 80 roller chain.

**Floor Supports** - Heavy duty structural supports are fixed at 18" elevation from floor to top of roller. One support at each end of conveyor and at each bed joint.

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

**Bearings** - Removable, sealed, prelubricated ball bearings.

**Chain Guard** - Lower chain guard is mounted on bottom of roller frame, and upper chain guard is mounted above roller frame to totally enclose drive chain.

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

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

**Capacity** - 2000 lbs. per foot maximum. Not to exceed Load Capacity Chart.

**Speed** - 30 FPM constant.

## OPTIONAL EQUIPMENT

**Floor Supports** - Lower or higher supports are available.

**Side Mounted Drive** - Center drive mounted to side of conveyor frame. Drive is higher than conveyor frame. Minimum elevation to top of rollers is 10 3/8". Specify which side.

**Rollers Set Low** - Tread rollers set low in 8" x 11.5 pound structural steel channel frame to form 1 5/8" high guards.

**Tread Rollers** - 3 1/2" diameter x .30 wall steel tread rollers spaced on 6" or 12" centers, No. 60 sprockets, 1 1/16" hex shaft.

**Drive Chain** - No. 60 roller chain.

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

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

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

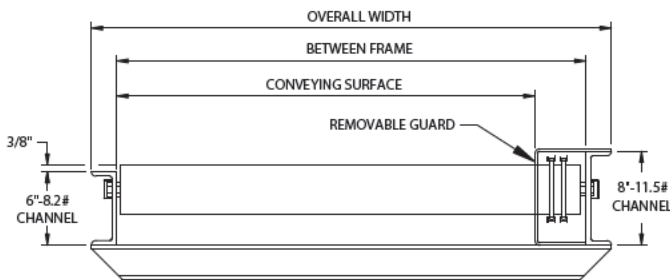
# MODEL "350CRR"



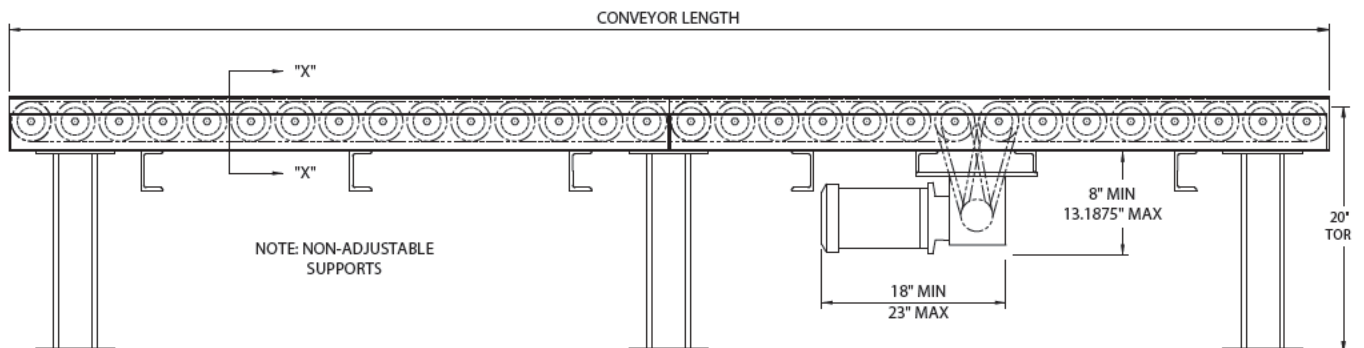
Conveyor Length	Conveying Surface	19"	27"	29"	33"	41"	47"	53"	55"
	Between Rail Width	23"	31"	33"	37"	45"	51"	57"	59"
	Overall Frame Width	27"	35"	37"	41"	49"	55"	61"	63"
5'	<b>WEIGHTS (Lbs.)</b>  <b>Weights Based on 6" Roller Centers</b>	792	900	927	981	1089	1170	1251	1278
10'		1284	1490	1541	1644	1849	2003	2157	2208
15'		1776	2079	2155	2306	2609	2836	3063	3138
20'		2268	2668	2768	2968	3368	3668	3968	4068
25'		2760	3258	3382	3631	4128	4501	4873	4998
30'		3252	3863	4015	4320	4931	5388	5846	5998
40'		4236	5026	5223	5617	6407	6999	7590	7788
50'		5220	6204	6450	6942	7926	8664	9402	9648
60'		6204	7383	7678	8267	9446	10330	11214	11508
70'		7188	8562	8905	9592	10965	11995	13025	13368
80'	8172	9740	10132	10916	12484	13660	14836	15228	
90'	9156	10918	11360	12241	14004	15236	16648	17088	
100'	10140	12096	12588	13566	15524	16812	18460	18948	

## Load Capacity Chart

HORIZONTAL CONVEYOR ROLLER BED @ 30 FPM									
HP	27"-38" OAW			40"-52" OAW			58"-66" OAW		
	TOTAL LOAD			TOTAL LOAD			TOTAL LOAD		
	30'	60'	90'	30'	60'	90'	30'	60'	90'
2	21000	19200	17400	20400	18000	15600	19400	16000	12500
3	27000	25200	23400	26400	24000	21600	25400	22000	18500



SECTION VIEW "X-X"





# MODEL "FTC"

## Inclined Floor-to-Floor Conveyor

- **Booster conveyor for gravity flow systems**
- **Transporting between floors**
- **Center drive**



### STANDARD SPECIFICATIONS

**Belt** - 14", 18", 24", 30" and 36" wide rough-top belt.

**Bed** - 20", 24", 30", 36" and 42" wide 12 gauge powder painted formed steel slider bed. Bed is 6½" deep x 6 feet, 8 feet or 10 feet long spliced together with splice plates.

**Under-Trussed Bed** - Extra reinforcement to prevent sag in longer bed sections in addition to reinforcing angles, 24 feet and longer.

**Double Nose-Over** - Two 16" long adjustable bed sections provide a two step transition from incline to horizontal with 15° to 35° adjustment.

**Tail Pulley** - 4" diameter, crowned with 1¾" diameter shaft through 30" wide belt. 6" diameter tail pulley with 1⅞" diameter shaft turned down on ends for wider than 30" belt.

**Drive Pulley** - 8" diameter crowned and lagged. 1⅞" diameter.

**Snub Roller** - 2½" diameter at drive pulley and 2" diameter at tail pulley.

**Return Idlers** - 1.9" diameter, adjustable.

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

**Pop-Out Roller** - Free floating, 1⅜" diameter rollers located at tail pulleys with gravity connector rods. Will lift out if anything is caught between pulleys and rollers.

**Floor Supports** - Adjustable stands to give 31" to 45" height at each end; with knee braces.

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

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

**Motor** - ¾ HP 230/460-3-60 TE motor.

**Belt Speed** - 60 FPM constant.

**Capacity** - 100 lbs. per foot maximum. Not to exceed Load Capacity Chart.

### OPTIONAL EQUIPMENT

**Belt** - Neoprene ruff-top, PVC rough-top, other types and styles.

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

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

**Floor Stands** - Lower or higher than standard.

**Lower Powered Feeder Section** - Separate belt section with (2) supports, adjustable from 28½" to 42½". Driven by roller chain from tail pulley of inclined section. Integral feeder available.

**Single Nose-Over** - A straight section 23½" from tail pulley to center of nose-over roller provides for smooth transition from 0° to 15° incline.

**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.

# MODEL "FTC"

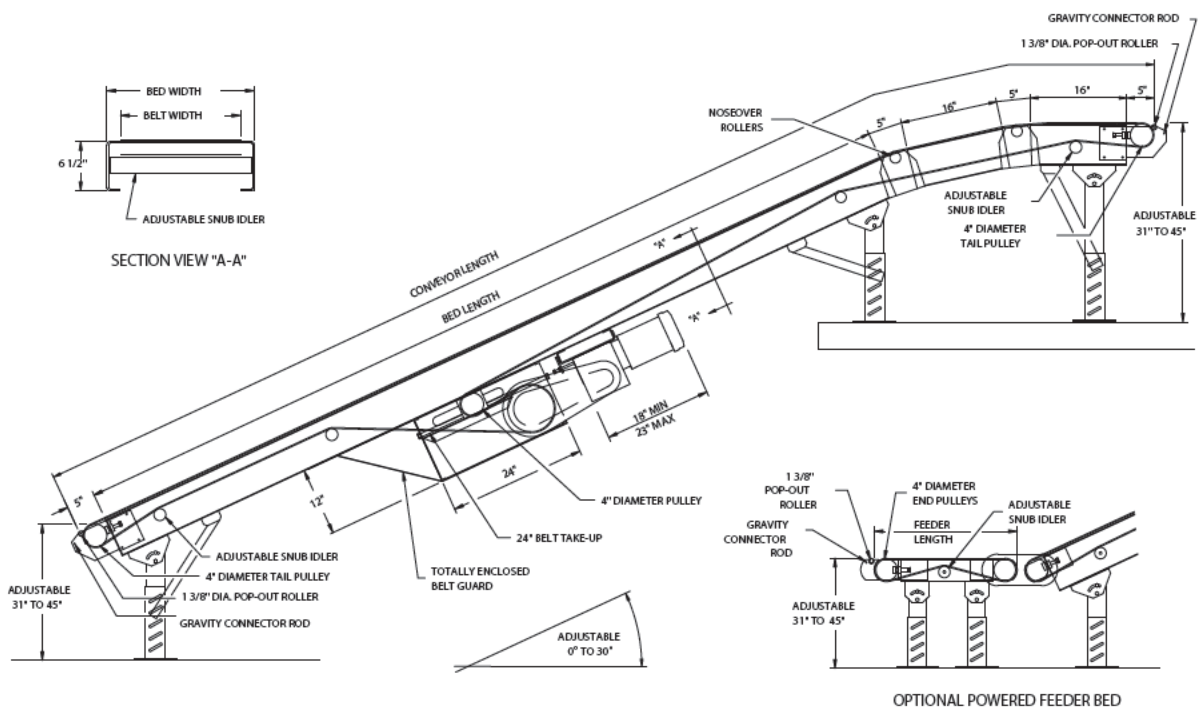


Overall Length	Bed Length	Net Lift 25°	Horizontal Floor Space @ 25°	Belt Width			
				Bed Width			
14'4"	10'	4'8"	13'2"	14"	18"	24"	30"
18'4"	14'	6'4"	16'10"	20"	24"	30"	36"
20'4"	16'	7'2"	18'7"	650	720	825	925
22'4"	18'	8'0"	20'5"	730	815	935	1050
24'4"	20'	8'10"	22'3"	760	850	980	1100
26'4"	22'	9'8"	24'1"	800	895	1030	1165
28'4"	24'	10'7"	25'10"	825	930	1070	1210
30'4"	26'	11'5"	27'8"	970	1085	1240	1390
32'4"	28'	12'3"	29'6"	1005	1125	1295	1460
34'4"	30'	13'1"	31'4"	1040	1160	1330	1500
36'4"	32'	13'11"	33'1"	1070	1200	1380	1560
38'4"	34'	14'9"	34'11"	1110	1240	1430	1610
40'4"	36'	15'7"	36'9"	1190	1330	1530	1720
42'4"	38'	16'6"	38'7"	1220	1370	1580	1780
44'4"	40'	17'4"	40'4"	1250	1410	1620	1830
				1290	1450	1670	1890
				1320	1490	1715	1940

## Load Capacity Chart

60 FPM	
HP	TOTAL LOAD
3/4	430 lbs.
1	540 lbs.
1 1/2	810 lbs.
2	1080 lbs.

## POWER FEEDER - OPTIONAL



# MODEL "190RBI"

## Incline Roller Bed Conveyor

- Transporting between floors
- Booster conveyor for gravity flow systems
- Heavier loads can be conveyed because of less friction build-up



### STANDARD SPECIFICATIONS

**Belt** - 12", 16", 18", 20", 24" and 30" wide rough-top belt.

**Bed** - Roller bed with 1.9" diameter x 16 gauge galvanized rollers spaced on 6" centers. Rollers mounted in 7" x 1 1/2" x 12 gauge powder painted formed steel channel frames. Frames bolted together with butt couplings.

**Under-Trussed Bed** - Extra reinforcement to prevent sag in longer bed sections in addition to reinforcing angles, 20 feet and longer.

**X-Bracing** - Supplied on conveyors 40 feet and longer. Used to square bed sections to insure proper product and belt tracking.

**Double Nose-Over** - Adjustable from 0° to 30°.

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

**Tail Pulley** - 4" diameter, crowned with 1 3/16" diameter shaft through 30" wide belt. 6" diameter tail pulley with 1 7/16" diameter shaft turned down on ends for wider than 30" belt.

**Drive Pulley** - 8" diameter and fully lagged, 1 7/16" diameter shaft.

**Snub Roller** - 2 1/2" diameter at drive pulley, 2" diameter at terminal pulleys.

**Return Roller** - 1.9" diameter.

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

**Gravity Brackets** - Adjustable rod with 1 3/8" diameter pop-out transfer roller to attach wheel or 1 3/8" diameter roller conveyor.

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

**Floor Supports** - Adjustable 31 1/2" to 45 1/2" from floor to top of belt. One support supplied at each end of conveyor and at nose-over, with knee braces.

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

**Motor** - 3/4 HP 230/460-3-60 TE motor.

**Belt Speed** - 60 FPM constant.

**Capacity** - See Load Capacity Chart.

### OPTIONAL EQUIPMENT

**Belt** - Neoprene ruff-top, PVC rough-top, other types and styles.

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

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

**Floor Supports** - Lower or higher than standard.

**Lower Powered Feeder Section** - Separate belt section with (2) supports, adjustable from 28 1/2" to 42 1/2". Driven by roller chain from tail pulley of inclined section. Integral feeders available.

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

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

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

**Single Noseover** - Available.

# MODEL "190RBI"

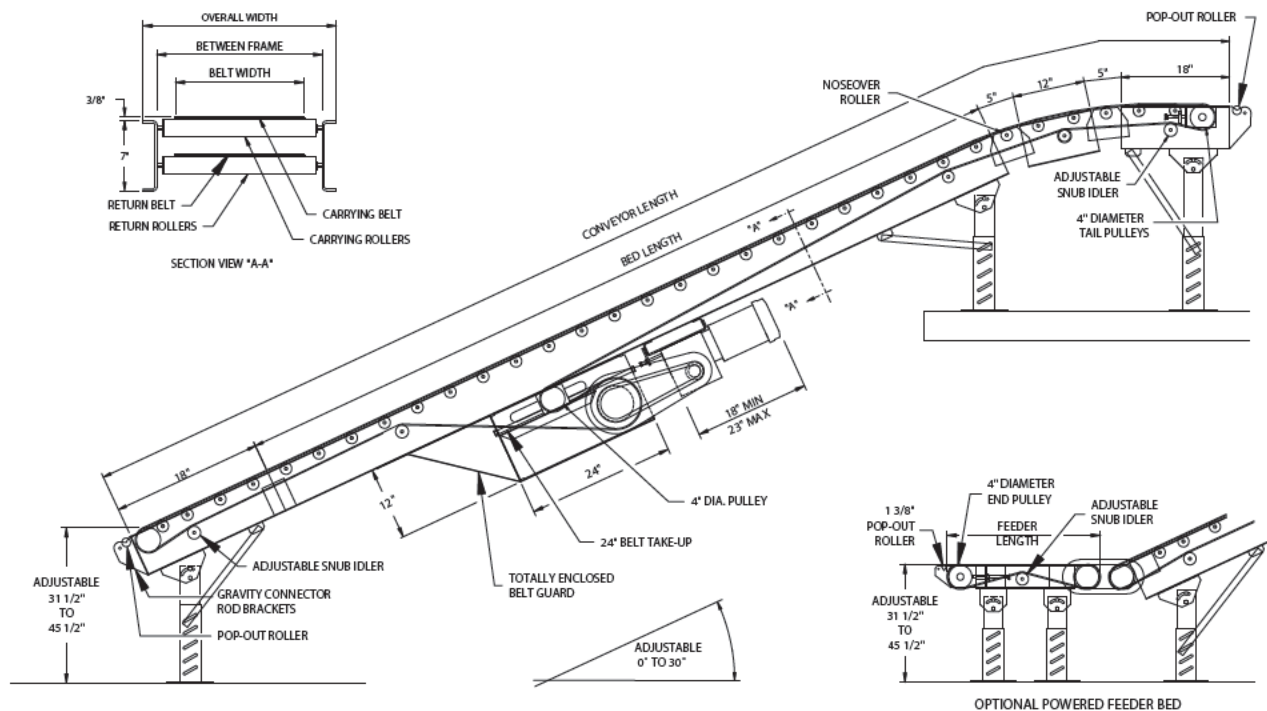


Conveyor Length	Bed Length	Net Lift 25°	Horizontal Floor Space 25°	Weight (lbs.)						
				Between Frames	15"	19"	21"	23"	27"	33"
				Belt Width	12"	16"	18"	20"	24"	30"
				Overall Frame Width	18"	22"	24"	26"	30"	36"
14'10"	10'	4'8"	11'9"	<b>Weight (lbs.)</b>	900	1040	1120	1190	1330	1470
16'10"	12'	6'5"	15'5"		1050	1230	1305	1385	1570	1740
18'10"	14'	7'3"	17'3"		1130	1320	1410	1500	1695	1890
20'10"	16'	8'1"	19'0"		1200	1400	1510	1610	1810	2020
22'10"	18'	8'11"	20'10"		1280	1508	1615	1730	1950	2170
24'10"	20'	9'9"	22'8"		1450	1690	1800	1925	2160	2300
26'10"	22'	10'7"	24'6"		1530	1780	1910	2040	2300	2570
28'10"	24'	11'6"	26'4"		1600	1880	2010	2150	2420	2690
30'10"	26'	12'4"	28'1"		1680	1960	2112	2250	2540	2820
32'10"	28'	13'2"	29'11"		1760	2070	2220	2370	2680	2990
34'10"	30'	14'0"	31'9"		1860	2180	2340	2500	2820	3140
36'10"	32'	14'10"	33'7"		1940	2280	2450	2620	2960	3300
38'10"	34'	15'8"	35'4"		2020	2370	2550	2730	3080	3430
40'10"	36'	16'6"	37'2"		2090	2460	2650	2830	3200	3570
42'10"	38'	17'5"	39'0"		2180	2560	2760	2950	3340	3730

## Load Capacity Chart

60 FPM - 25° Incline	
HP	50' OAL Max. Total Live Load
3/4	450 lbs.
1	675 lbs.
1 1/2	1125 lbs.
2	1345 lbs.

## POWER FEEDER - OPTIONAL





- Stamping operations
- Small parts
- Portable or permanent

### STANDARD SPECIFICATIONS

**Belt** - 3 ply PVG (Oil resistant PVC) with 1½" high molded cleats on 12" centers. Available in widths of 4", 6", 8", 10", 12", 16", 18" and 24".

**Bed** - 6½" deep x 12 gauge powder painted formed steel with 3½" high solid guard rails both sides.

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

**Overhead Drive** - 10" clearance over belt, standard.

**Drive Pulley** - 4" diameter crowned and fully lagged with 1¾" diameter shaft.

**Belt Return** - Belt is returned on smooth sheet metal slide.

**Take-Up** - 6" long screws located at tail pulley to tighten belt.

**Portable Supports** - Heavy duty pipe support with 4" diameter casters permit easy mobility of conveyor.

**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** - Total distributed live load not to exceed Capacity Chart.

### OPTIONAL EQUIPMENT

**Belt** - ½" x 1" flat wire mesh with 1½" high angle cleats bolted on 12" centers. Others.

**Bed** - Special bed sizes and special material such as stainless steel, galvanized, etc.

**Supports** - Permanent type with adjustment.

**Hopper** - Infeed hopper located on tail pulley end. Sized to suit application.

**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.

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

# MODEL "SPC"



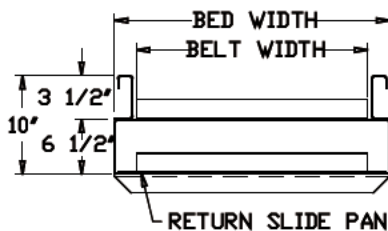
Conveyor Length	Belt Width	4"	6"	8"	10"	12"	16"	18"	24"
	Bed Width	8"	12"	12"	16"	16"	20"	24"	30"
	Bed Thickness	12 Gauge Steel							
5'	Weight (lbs.)	348	416	420	473	477	530	583	635
7'		379	447	451	504	508	563	620	675
9'		410	478	482	535	539	596	657	714
11'		441	509	513	566	570	629	694	753
13'		472	540	544	597	601	662	731	792

Portable Base Adjustment Chart (5' to 13' Lengths)

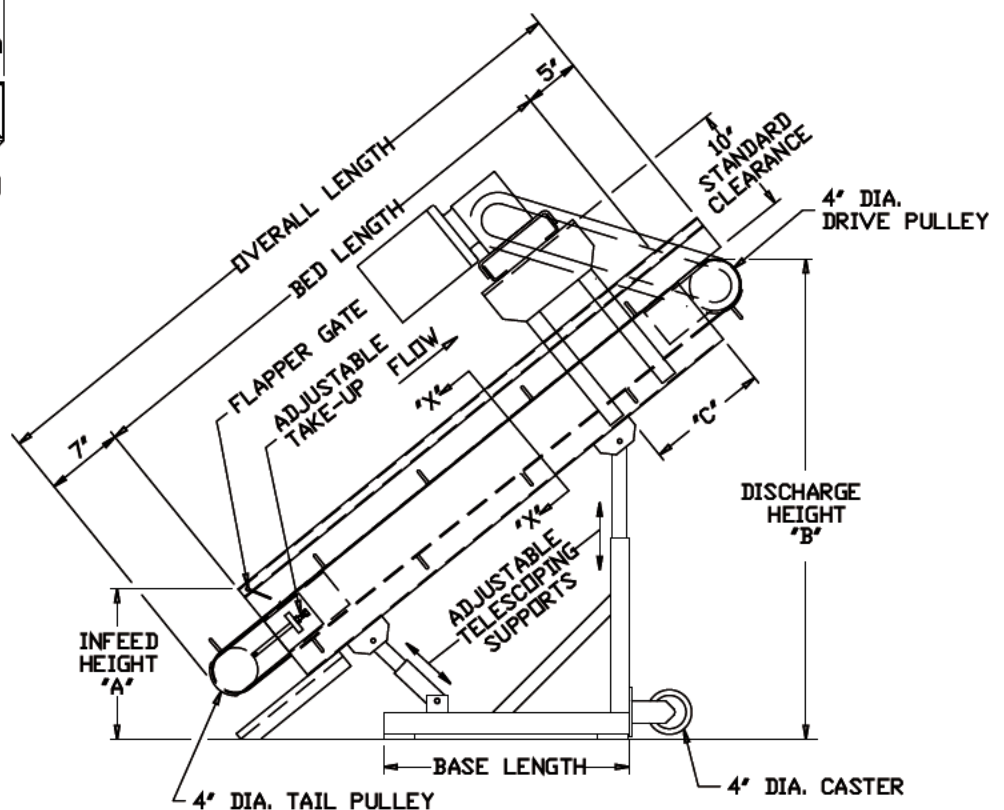
Overall Length	Bed Length	Base Length	Min. Tail Min. Drive		Min. Tail Max. Drive		Max. Tail Min. Drive		Max. Tail Max. Drive		
			"A"	"B"	"A"	"B"	"A"	"B"	"A"	"B"	"C"
5'	4'	22"	11"	41 1/2"	10"	56"	25 1/2"	37 1/2"	26"	54 1/2"	11"
7'	6'	34"	11"	51 1/2"	10"	76 1/2"	44 1/2"	44 1/2"	45"	73 1/2"	11"
9'	8'	46"	11"	64 1/2"	10"	97 1/2"	57 1/2"	57 1/2"	48"	95 1/2"	11"
11'	10'	58"	11"	74 1/2"	10"	118"	67 1/2"	67 1/2"	55 1/2"	116"	11"
13'	12'	58"	11"	86 1/2"	10"	139"	67 1/2"	67 1/2"	55 1/2"	128"	35"

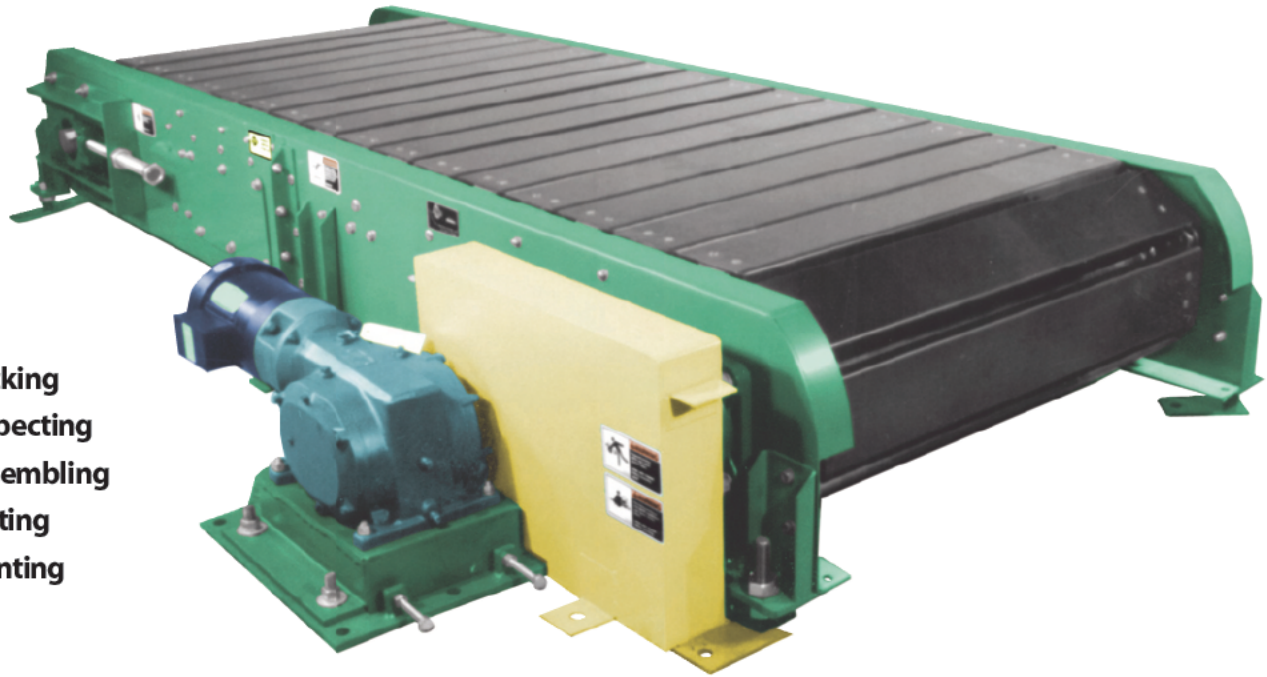
## Load Capacity Chart

60 FPM	
HP	TOTAL LOAD
1/2	300 lbs.
3/4	380 lbs.



SECTION "X-X"





- Packing
- Inspecting
- Assembling
- Testing
- Painting

### STANDARD SPECIFICATIONS

**Slats** - 5<sup>3</sup>/<sub>4</sub>" x 10 gauge formed slat standard, bolted to A-2 attachments on chain. Slat length is effective conveying surface.

**Conveyor Frame** - Heavy duty, powder painted 7 gauge, bolted construction.

**Chain & Slat Return** - Returns on angle track, supplied as part of conveyor framework.

**Chain** - Heavy duty 6" pitch with A-2 attachments on each pitch.

**Driving Sprockets** - 6 Tooth SR 196 12" pitch diameter.

**Floor Supports** - Supplied as part of conveyor framework, not adjustable. Specify height. 24" min. elevation.

**Drive Shaft** - 2<sup>15</sup>/<sub>16</sub>" diameter CRS.

**Tail Shaft** - 2<sup>7</sup>/<sub>16</sub>" diameter CRS.

**Take-Up** - Mounted at tail end of conveyor for adjustment of chain tension.

**Drive** - Floor mounted at discharge end of conveyor.

**Speed** - 30 FPM constant.

**Reducer** - Heavy duty worm gear reducer.

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

**Capacity** - 400 lbs. per foot maximum. Not to exceed Load Capacity Chart.

### OPTIONAL EQUIPMENT

**Slats** - Heavier gauge and hardwood slats available.

**Chain** - 4" pitch heavier duty chain available; inquire.

**Dwell Station** - Gravity section mounted level with slat surface. Allows product to be inspected, tested, etc., while conveyor remains running.

**Speed** - Other constant speeds and variable speeds available.

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

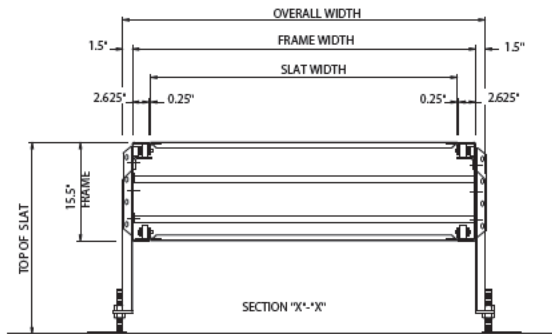
**Electrical Controls** - Magnetic starters, push button stations; manual motor starters with overload protection, others.

# MODEL "SL"



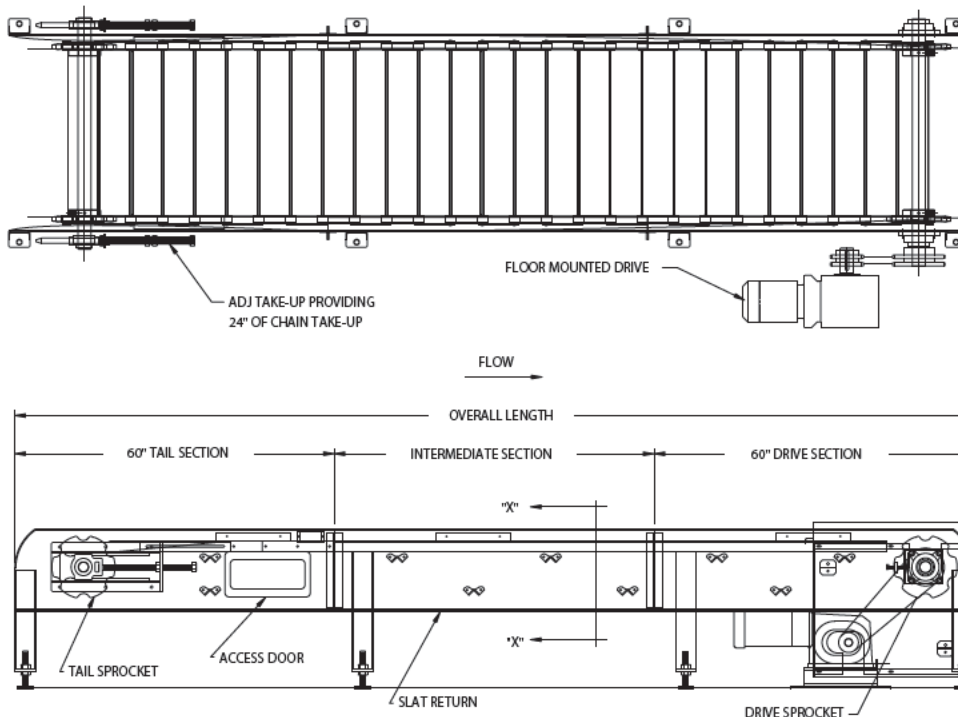
Conveyor Length	Slat Width		24"	30"	36"	42"	48"
	Overall Width		33"	39"	45"	51"	57"
10'	<b>Weights Based On Standard 5 3/4" Wide 10 Gauge Formed Slats</b>		2225	2471	2717	2963	3209
20'			3821	4313	4805	5297	5789
30'			5417	6155	6893	7631	8369
40'			7013	7997	8981	9965	10949
50'			8582	9812	11042	12272	13502
60'			10178	11654	13130	14606	16082
70'			11774	13496	15218	16940	18662
80'			13370	15338	17306	19274	21242
90'			14966	17180	19394	21608	23822
100'			16562	19022	21482	23942	26402

**NOTE: Elevation changes are critical on this model. Please contact factory.**



## Load Capacity Chart

HP	30 FPM	
	Up to 40 ft.	Up to 100 ft.
2	6500 lbs.	2100 lbs.
3	11000 lbs.	6800 lbs.







- **Handles pallets the hard way**
- **Quiet operation**
- **Low profile - 12" elevation optional**
- **Available with zero pressure accumulation feature**

### STANDARD SPECIFICATIONS

**Frame** - 9" x 7 gauge powder painted formed steel channel frames. Sections are bolted together with splice plates and floor supports.

**Chain** - (2) 60F single pitch conveyor chains, straight side bar, on 36" centers.

**Chain Guide** - UHMW

**Floor Supports** - 24" to top of chain. One support supplied at each end of conveyor and at each bed joint.

**Motor** - 1 HP 230/460-3-60 TE motor, C-Face. Motor and speed reducer are located underneath conveyor frame.

**Speed Reducer** - Heavy duty worm gear for C-Faced mounted motor.

**Sprockets** - Hardened sprockets with 1<sup>15</sup>/<sub>16</sub>" diameter CRS drive shaft.

**Bearings** - Sealed, pre-lubricated with cast iron housing.

**Speed** - 30 FPM constant speed.

**Capacity** - 10,000 lbs. maximum distributed live load at 30 FPM. Maximum motor size 3 HP.

### OPTIONAL EQUIPMENT

**Elevation** - 12" minimum (with adjustment to 13") to top of chain, made available by modification. Contact factory.

**Motors** - Single phase, energy efficient.

**Chain Centers** - Other chain centers and multiple chains available, 18" minimum chain centers. Contact factory.

**Speeds** - For speeds greater than 30 FPM, contact factory.

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

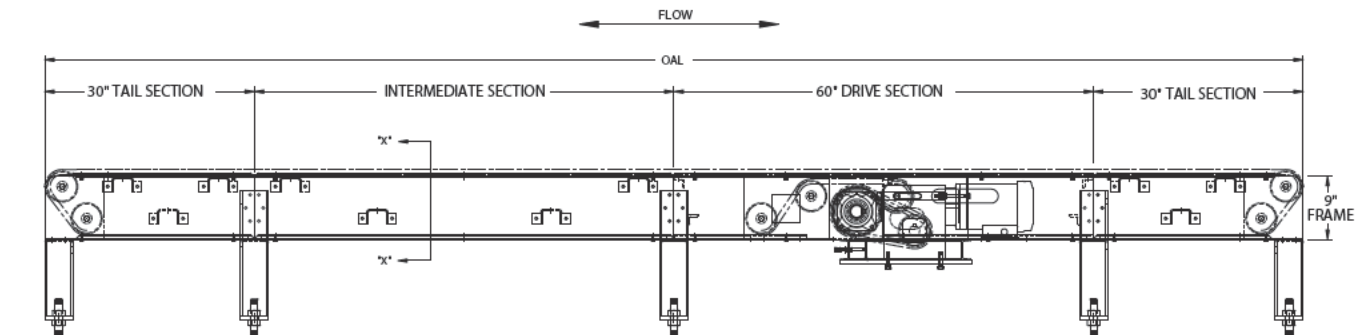
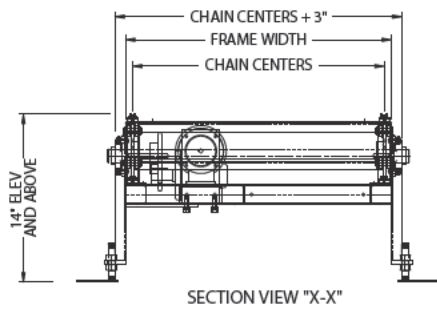
# MODEL "DC"



Overall Length	Frame Width	20"	26"	32"	38"	44"	50"
	Chain Center	18"	24"	30"	36"	42"	48"
10'	<b>Weights (in lbs.)</b>	540	585	630	678	723	768
15'		726	790	855	918	983	1048
20'		911	995	1080	1158	1243	1328
25'		1096	1200	1305	1398	1503	1608
30'		1281	1405	1530	1638	1763	1888
35'		1466	1610	1755	1878	2023	2168
40'		1651	1815	1980	2118	2283	2446
45'		1836	2020	2205	2358	2543	2728
50'		2021	2225	2430	2598	2803	3008
55'		2206	2430	2655	2838	3063	3288
65'		2576	2840	3105	3318	3583	3848
75'		2946	3250	3555	3798	4103	4408
85'		3316	3660	4005	4248	4623	4968
95'		3686	4070	4455	4698	5143	5528
105'	4056	4480	4905	5148	5663	6088	

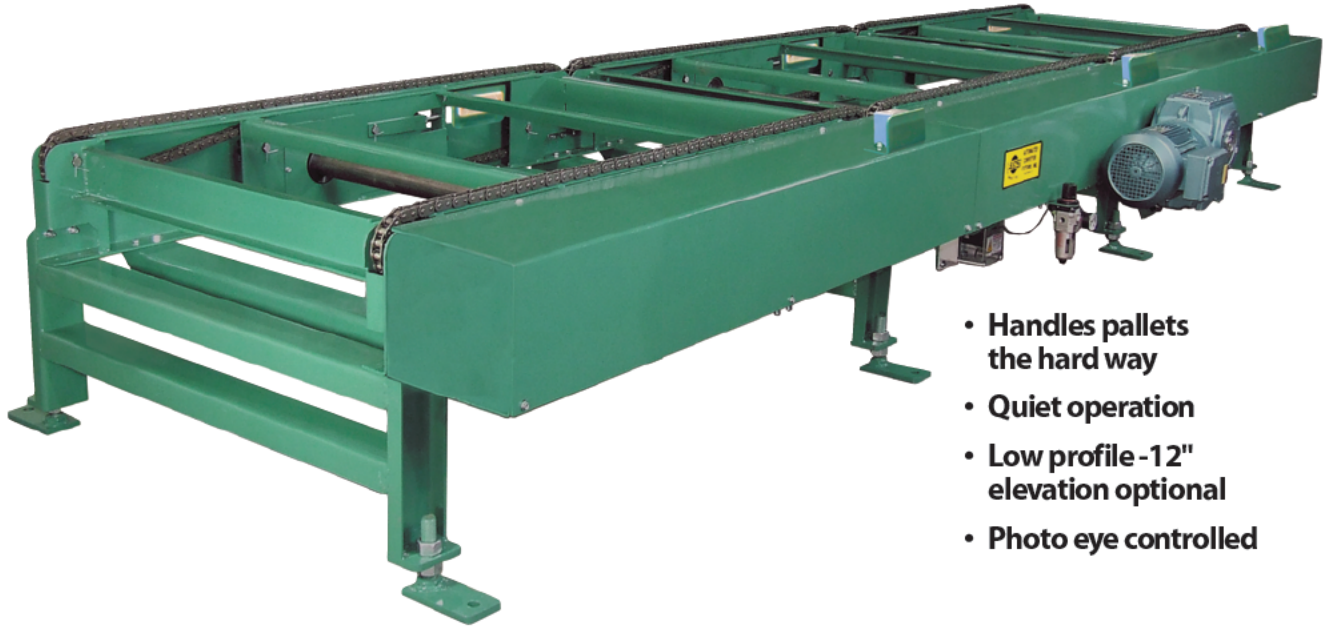
## Load Capacity Chart

HP	30 FPM WITH 2 STRANDS	
	TOTAL LIVE LOAD (lbs.)	
	Up to 50'	Up to 100'
1	4,000	3,000
2	6,500	6,000
3	10,000	9,500



# MODEL "DCE"

## Drag Chain Photo Eye Controlled Accumulating Conveyor



- Handles pallets the hard way
- Quiet operation
- Low profile - 12" elevation optional
- Photo eye controlled

### STANDARD SPECIFICATIONS

**Frame** - 9" x 7 gauge powder painted formed steel channel frames. Sections are bolted together with splice plates and floor supports.

**Chain** - (2) 60F single pitch conveyor chains, straight side bar, on 36" centers.

**Chain Guide** - UHMW

**Floor Supports** - 24" to top of chain. One support supplied at each end of conveyor and at each bed joint.

**Motor** - 1 HP 230/460-3-60 TE motor, C-Face. Motor and speed reducer are located underneath conveyor frame.

**Speed Reducer** - Heavy duty worm gear for C-Faced mounted motor.

**Sprockets** - Hardened sprockets with 1<sup>5</sup>/<sub>16</sub>" diameter CRS drive shaft.

**Bearings** - Sealed, pre-lubricated with cast iron housing.

**Accumulation Zones** - Standard zones are 60" long with a maximum of 20 zones per single drive. Each zone is driven by an air clutch and controlled by a photo eye.

**Power Supply** - 1 20VAC power supply controls accumulation feature with 24VDC output. Power supply will control 50 accumulation zones.

**Sensing Device** - NEMA 1 photo electric sensor in each zone. Detects product presence and activates accumulation feature if downstream zone is occupied.

**Speed** - 30 FPM constant speed.

**Capacity** - 10,000 lbs. maximum distributed live load at 30 FPM. Maximum motor size 3 HP.

### OPTIONAL EQUIPMENT

**Elevation** - 12" minimum (with adjustment to 13") to top of chain, made available by modification. Contact factory.

**Accumulation Zones** - 48", 54", and 72" long. Frame lengths change with zone lengths. For other zone lengths, contact factory.

**Motors** - Single phase, energy efficient.

**Chain Centers** - Other chain centers and multiple chains available, 18" minimum chain centers. Contact factory.

**Speeds** - For speeds greater than 30 FPM, contact factory.

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

# MODEL "DCE"



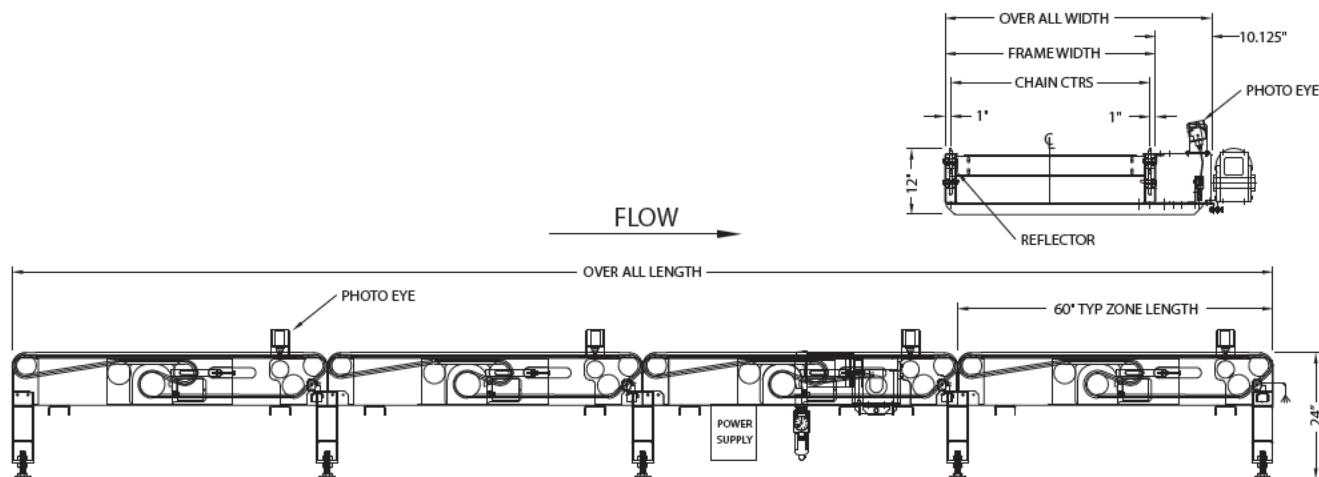
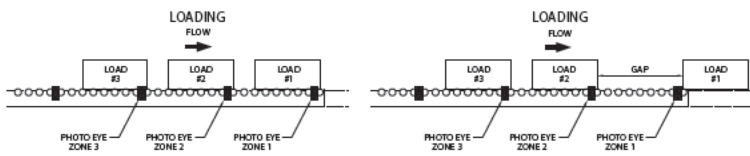
Overall Length	Frame Width	20"	26"	32"	38"	44"	50"
	Chain Center	18"	24"	30"	36"	42"	48"
10'	<b>Weights (in lbs.)</b>	540	585	630	678	723	768
15'		726	790	855	918	983	1048
20'		911	995	1080	1158	1243	1328
25'		1096	1200	1305	1398	1503	1608
30'		1281	1405	1530	1638	1763	1888
35'		1466	1610	1755	1878	2023	2168
40'		1651	1815	1980	2118	2283	2446
45'		1836	2020	2205	2358	2543	2728
50'		2021	2225	2430	2598	2803	3008
55'		2206	2430	2655	2838	3063	3288
65'		2576	2840	3105	3318	3583	3848
75'		2946	3250	3555	3798	4103	4408
85'		3316	3660	4005	4248	4623	4968
95'		3686	4070	4455	4698	5143	5528
105'	4056	4480	4905	5148	5663	6088	

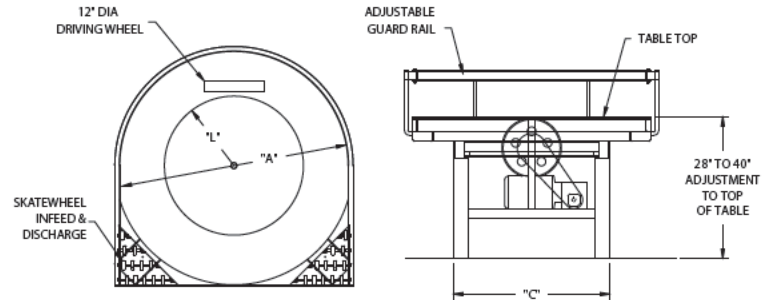
## OPERATIONAL SEQUENCE

- 1) Model "251ACDE" is loaded at the infeed end of conveyor. The first load travels the entire length of the conveyor to Zone #1. If the photoelectric sensor in Zone #1 has been activated by an external signal (normally open contact, not supplied) the product will stop in Zone #1.
- 2) The second load travels the length of the conveyor until it reaches Zone #2. If Zone #1 is occupied, the second load will stop in Zone #2. Load #3 will stop in Zone #3 and continue to accumulate at "zero pressure" until fully loaded.
- 3) To unload, an external signal (normally open contact, not supplied) to the photoelectric sensor in Zone #1 will release the accumulation feature and allow the product in Zone #1 to leave the conveyor. The load in Zone #2 will not advance into Zone #1 until the load in Zone #1 has completely cleared Zone #1's photoelectric sensor; the third load will not advance into Zone #2 until the second load clears the photoelectric sensor in Zone #2. Once the first load clears the photoelectric sensor in Zone #1, the external signal must be restored to Zone #1's photoelectric sensor for the accumulation process to continue.

## Load Capacity Chart

HP	30 FPM WITH 2 STRANDS	
	TOTAL LIVE LOAD (lbs.)	
	Up to 50'	Up to 100'
1	4,000	3,000
2	6,500	6,000
3	10,000	9,500





## Powered Turntable

The Powered Turntable is used when two parallel conveyor lines must be close together with a 180° turn at one (or both) ends. The turning radius is held to a minimum, less than would be available with gravity or powered curve sections. Turntable Plow and Guard Rails insure product safety while negotiating 180° turn. Unit is reversible and all bearings are sealed. Table top mean speed is 90 FPM.

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

**Capacity** - 500 lbs. total distributed load - maximum unit load - 150 lbs.

**Adjustment** - 28" to 40" adjustable top of table.

Weight (Lbs.)	"A"	"B"	"C"	Speed L of Plate
655	4'	51"	31 1/2"	90 FPM
825	5'	63"		
960	6'	75"		



## 251CRR - Powered Turntable

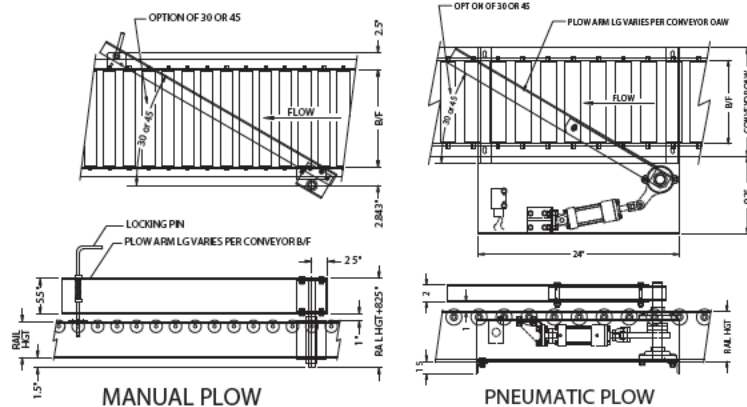
**Motor** - 3/4 HP 230/460-3-60 TE motor.

**Capacity** - Model 251CRR chain driven live roller mounted to the top of the table, designed for handling up to 4,000 lb. pallets

**Normal Operation** - 90 degree or 180 degree indexing

**Turntable** - Motor driven.

**Floor Supports** - Heavy duty supports, with minimum elevation of 20" to top of roller



## Plows - Manual and Pneumatic

### MANUAL AND PNEUMATIC

**Plow Arm** - 5 1/2" x 2" x 7 gauge

**Plow Angle** - 30° or 45°

### PNEUMATIC ONLY

**Air Cylinder** - 2" bore double acting 2" stroke for 30° 3" stroke for 45°

**Air Requirements** - Minimum pressure 60 PSI - max. 100 PSI

**Valve** - Single solenoid 4 way valve, 1/4"-20NPT valve ports

**Electrical Requirements:** 120V, single phase, 60 Hertz, current draw .07 amps, or 24VDC.

## Air Operated Chain Transfer

### STANDARD SPECIFICATIONS

- Capacity** - 2,000 lbs. unit load. (Higher capacities available.)
- Chain** - Two strands of #60 high side bar roller chain; min. 10" chain centers.
- Mounting** - Designed to install in standard "251 CRR" frames.
- Speed** - 30 FPM constant.
- Cycles** - Up to 4 cycles per minute.
- Air Requirements** - Min. pressure 60 PSI, max. pressure 125 PSI. Free air consumption @ 60 PSI .035 cu. ft. per cycle.
- Electrical requirements** - 120V, single phase, 60 Hz. Current draw - .07 amps, or 24VDC.
- Motor** -  $\frac{3}{4}$  HP 230/460-3-60 TEFC motor.
- Electrical Controls** - None furnished as standard.

**INSTALLATION NOTE:** To eliminate contaminants in air supply line, a filter, regulator, (FR) should be installed prior to valve.



## Auto-Sort Air Operated Wheel Diverter

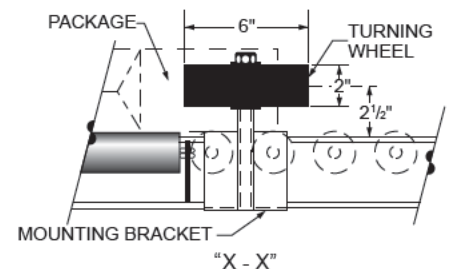
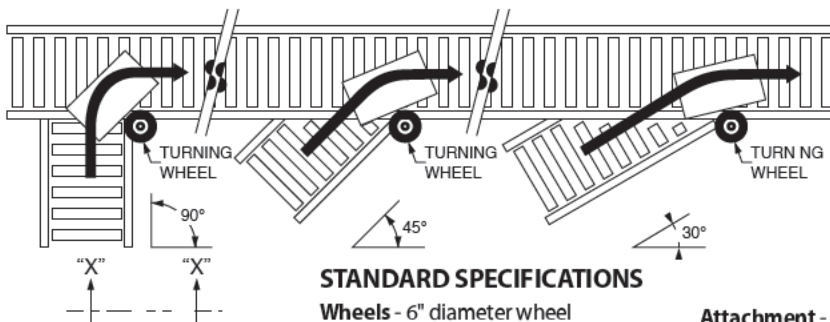
### STANDARD SPECIFICATIONS

- Capacity** - 75 lbs. max. package weight.
- Package Size** - Min. 6" wide x 9" long, max. 25" wide x 36" long.
- Cycles** - Up to 40 times per minute.
- Speeds** - Wheels 180 FPM.
- Mounting** - Mounts in "190LS" conveyor. Being modular in design, it can be located almost anywhere in length of conveyor. Specify right hand or left hand operation.
- Diverting Wheels** - Consists of a double row of 3" diameter wheels spaced proportionately across conveyor width. Driven by high capacity poly belts by it's own drive. May also be slave driven- consult factory.
- Supports** - Minimum elevation 21". Specify height conveyor will be installed.
- Air Cylinder** - 2" bore x 1" stroke double acting.
- Air Requirements** - Min. pressure 60 PSI, maximum 125 PSI. Free air consumption @ 60 PSI - .018 cu. ft. per cycle.
- Valve** - Single solenoid 4 way valve.  $\frac{1}{4}$ " - 20 NPT valve ports.
- Electrical requirements** - 120V, single phase, 60 Hertz, current draw .07 amps, or 24VDC.



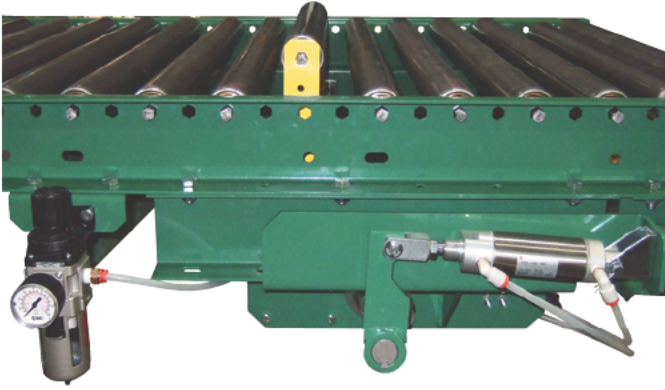
- Motor** -  $\frac{1}{2}$  HP 230/460-3-60 TE motor.
  - Speed Reducer** - Heavy duty worm gear, C-Face.
  - Electrical Controls** - Not furnished as standard equipment.
- INSTALLATION NOTE:** To eliminate contaminants in air supply line, a filter, regulator, (FR) should be installed prior to valve.

## Turning Wheel



**Attachment** - Brackets for attaching to all conveyors, specify model.

## Air Operated Blade/Roller Stop



**INSTALLATION NOTE:** To eliminate contaminants in air supply line, a filter, regulator (FR) should be installed prior to valve.

Air Operated Stops are used where automatic line control is required such as assembly work stations, shipping areas, etc. Can be mounted to underside of models 138SR, 190SR, 20SR, 190CAP, 138CAP, 190ZPA.

### STANDARD SPECIFICATIONS

**Capacity** - Blade -150 lbs., 1 $\frac{3}{8}$ " roller - 50 lbs., 1.9" diameter roller -150 lbs. All are live load capacities @ 60 FPM.

**Bearings** - High capacity (2) bolt flange bearings.

**Stop** - 1 $\frac{3}{8}$ " diameter x 18 gauge unplated steel roller for 1 $\frac{3}{8}$ " conveyors. 1.9" diameter x 16 gauge galvanized steel roller for 1.9" x 2.0" conveyors.

**Blade** -  $\frac{1}{4}$ " steel plate.

**Position** - Supplied normally down. Can be supplied normally up-specify.

**Air Cylinder** - 1 $\frac{1}{4}$ " bore x 2" stroke double acting air cylinder to raise or lower stop.

**Air Requirements** - Minimum pressure 60 PSI, maximum 100 PSI. Free air consumption @ 60 PSI - .014 cu. ft. per cycle, @ 100 PSI - .022 cu. ft.

**Valve** - Single solenoid 4 way valve.  $\frac{1}{4}$ " spring return - 20 NPT valve ports.

**Electrical requirements** - 120V, single phase, 60 Hertz. Current draw - .068 amps, or 24VDC.

## Hand Operated Blade/Roller Stop



Hand Operated Stops are used where manual line control is required such as assembly work stations, shipping areas, etc. Can be mounted to underside of Models 138SR, 190SR, 20SR, 190CAP, 138CAP and 190ZPA.

### STANDARD SPECIFICATIONS

**Capacity** - Blade -150 lbs., 1 $\frac{3}{8}$ " diameter roller - 50 lbs., 1.9" diameter roller -150 lbs. All are live load capacities @ 60 FPM.

**Bearings** - High capacity (2) bolt flange bearings.

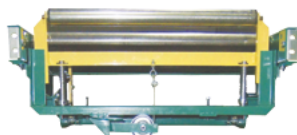
**Operation** - Hand operated lever to raise or lower stop can be used in normally up or down positions.

**Blade** - 7 gauge formed angle 1" x 1 $\frac{1}{2}$ " for 1 $\frac{3}{8}$ " conveyors - 1 $\frac{1}{2}$ " for 1.9" and 2.0" conveyors.

**Roller** - 1 $\frac{3}{8}$ " diameter x 18 gauge galvanized steel roller for 1 $\frac{3}{8}$ " conveyors. 1.9" diameter x 16 gauge galvanized steel roller for 1.9" and 2.0" conveyors.

**Stroke** - 2" above rollers.

## Foot Operated Blade/Roller Stop



Foot Operated Stops are used where "hands free" manual line control is required such as assembly work stations, shipping areas, etc. Can be mounted to underside of models 138SR, 190SR, 20SR, 190CAP, 138CAP and 190ZPA.

### STANDARD SPECIFICATIONS

**Capacity** - Blade - 75 lbs., 1 $\frac{3}{8}$ " diameter roller - 50 lbs., 1.9" diameter roller - 150 lbs. All are live load capacities @ 60 FPM

**Operation** - Foot operated lever to lower stop. Spring return to up position.

**Stop** - Blade -  $\frac{1}{4}$ " steel plate - roller 1 $\frac{3}{8}$ " diameter x 18 gauge galvanized steel roller for 1 $\frac{3}{8}$ " conveyors. 1.9" diameter x 16 gauge galvanized steel roller for 1.9" and 2.0" conveyors.

**Position** - Supplied normally up. Can be supplied normally down - specify.

**Stroke** - 1 $\frac{1}{2}$ " above roller.

# Powered Accessories



## Traffic Controller

Used to control product flow from two conveyor lines into a converging point. It prevents both lines from feeding into the converging point at the same time. When an item contacts one arm it immediately locks out the opposite arm. When the product is clear, the arm returns to its normal position.

Arm Length	Conveyor O.A.W.	Model No.
12"	12"	12-TC
15"	15"	15-TC
18"	18"	18-TC
22"	22"	22-TC
24"	24"	24-TC
28"	28"	28-TC
30"	30"	30-TC
36"	36"	36-TC
42"	42"	42-TC



### STANDARD SPECIFICATIONS

**Capacity** - 75 lbs. impact capacity at 60 FPM; 250 lbs. accumulated capacity.

**Minimum Weight** - 10 lbs. minimum package weight required to operate arms.

**Application** - Available for 30°, 45°, 90° or 180° operation - specify.

## High Speed Push-Off

Used for 90° transfers when package specifications allow product to be pushed from side. Can also be used to divert packages from one lane to another in parallel conveyor lanes.

### STANDARD SPECIFICATIONS

**Capacity** - 75 lbs. maximum package weight.

**Pusher Face** - 24" long.

**Pusher Stroke** - 20" to 30"

**Cycles** - Up to 40 times per minute, up to 24" stroke only, @ 80 PSI

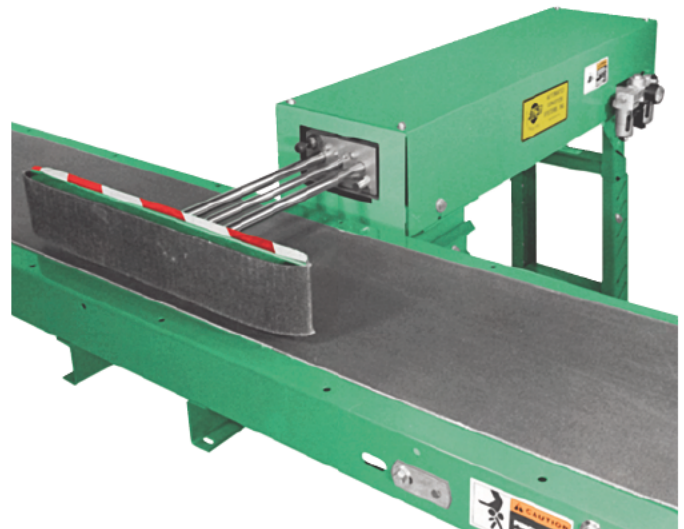
**Air Cylinder** - 2" bore double acting, automatic return, with jam protection

**Air Requirements** - Minimum pressure 60 PSI; maximum 125 PSI. Free air consumption @ 60 PSI - .235 cu. ft. per cycle for 20" stroke, .355 cu. ft. for 30" stroke.

**Valve** - Single solenoid 4 way, automatic return valve, 1/2" - NPT valve ports; filter-regulator included.

**Electrical requirements** - 120V, single phase, 60 Hertz. Current draw, .07 amps.

**Electrical Controls** - PLC included



## Guard Rails

### SOLID STEEL GUARDS

Mounts to side of conveyor bed sections. Guard heights above belt: 2.5", 3.5", 4.5", 6.125", 9.125", 10", and 12.5", 12 gauge galvanized or powder painted steel.

### ANGLE GUARDS

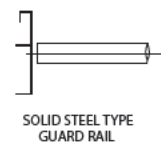
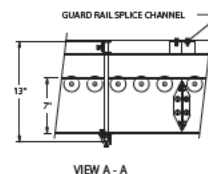
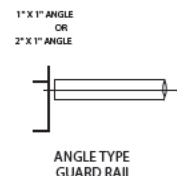
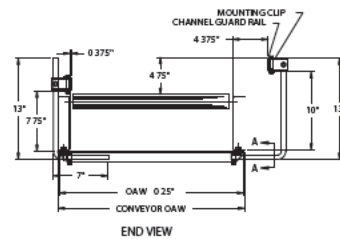
**Sizes** - 1"x1" or 2"x1". Mounts easily to top flange of conveyor frame.

**Applications** - Available for gravity or powered conveyors with 1" or 1 1/2" wide channel flanges.

**Angle guards** - 12 gauge galvanized steel.

### ADJUSTABLE CHANNEL

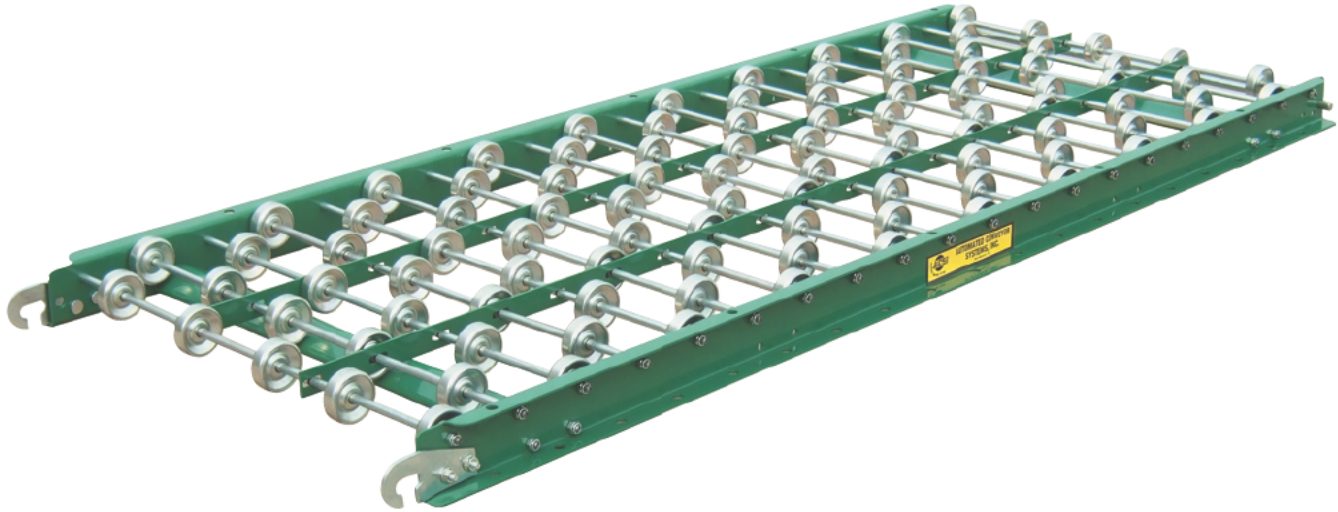
Aluminum or steel. Use with powered and gravity conveyors. 5/8" steel rods provide vertical and horizontal adjustment. Available for straight conveyors, curves and spurs. Continuous (system type) or standard flared ends available. (Specify)



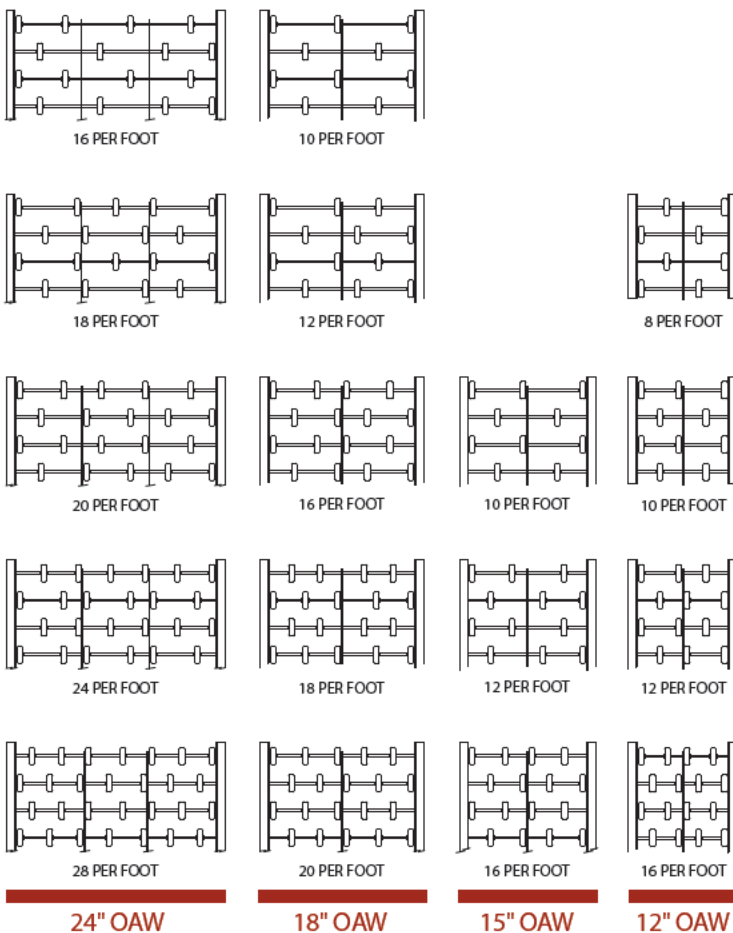
ADJUSTABLE CHANNEL GUARD RAIL



# Gravity Skatewheel Conveyor



## Typical Wheel Patterns



## STANDARD SPECIFICATIONS

**Frame** - Frames are 2½" X 1" x 12 gauge powder painted formed steel or 2½" x 1" x ½" aluminum formed channels. The 12", 15" and 18" wide sections have one ½" x 1" axle supports and the 24" wide has two ½" x 1" axle supports.

**Wheels** - Zinc plated steel or aluminum wheels are 1½/16" diameter x 5/8" face with a steel hardened raceway and a 13/16" wide cone. Each wheel contains (7) ¼" hardened and ground steel balls. The lightly oiled baffled construction is designed to keep dirt out.

**Cross Braces** - 5 ft. long sections have (2) bolted cross members and 10 ft. long sections have (3) bolted cross members.

**Axles** - All axles are ¼" diameter cold drawn steel, set on 3" centers and secured with a ¼" - 20 stop nut.

**Wheel Capacity** - Steel, 50 lbs; aluminum, 45 lbs.

**Wheels Per Foot** - Standard patterns include 8, 10, 12, 16, 18, 20, 24 and 28 wheels per foot.

**Couplings** - Each 5' and 10' section is equipped with a hook and rod connector. The slotted hook permits minor lateral movement. No tools are necessary for assembly, just hook together.

**Widths** - Standard widths are 12", 15", 18" and 24".

**Lengths** - Standard lengths are 5' and 10'.

**Curves** - Standard curves are 45° and 90°. The outside radius is 4 feet. Capacity same as straight sections.

**Conveyor Capacity** - See Capacity Chart.

# Gravity Skatewheel Conveyor



## GALVANIZED STEEL STRAIGHT SECTIONS

Model	Wheels Per Foot	Weight	
		10'	5'
		12G8-25	8
12G10-25	10	68	37
12G12-25	12	72	38
12G16-25	16	80	43

Model	Wheels Per Foot	Weight	
		10'	5'
		-	-
15G10-25	10	73	40
15G12-25	12	78	43
15G16-25	16	87	48

Model	Wheels Per Foot	Weight	
		10'	5'
		18G10-25	10
18G12-25	12	77	41
18G16-25	16	87	46
18G18-25	18	92	49
18G20-25	20	98	53

Model	Wheels Per Foot	Weight	
		10'	5'
		24G16-25	16
24G18-25	18	100	55
24G20-25	20	103	57
24G24-25	24	112	62
24G28-25	28	118	65

## ALUMINUM STRAIGHT SECTIONS

Model	Wheels Per Foot	Weight	
		10'	5'
		12A8-25	8
12A10-25	10	36	20
12A12-25	12	39	21
12A16-25	16	43	23

Model	Wheels Per Foot	Weight	
		10'	5'
		-	-
15A10-25	10	39	22
15A12-25	12	42	23
15A16-25	16	44	26

Model	Wheels Per Foot	Weight	
		10'	5'
		18A10-25	10
18A12-25	12	41	22
18A16-25	16	46	25
18A18-25	18	49	27
18A20-25	20	52	28

Model	Wheels Per Foot	Weight	
		10'	5'
		24A16-25	16
24A18-25	18	53	29
24A20-25	20	55	30
24A24-25	24	59	32
24A28-25	28	63	34

## GALVANIZED STEEL CURVE SECTIONS

Model	Wheels Per Foot	Weight	
		90°	45°
		12G90-25	12
12G45-25	12	-	35

Model	Wheels Per Foot	Weight	
		90°	45°
		15G90-25	12
15G45-25	12	-	40

Model	Wheels Per Foot	Weight	
		90°	45°
		18G90-25	18
18G45-25	18	-	46

Model	Wheels Per Foot	Weight	
		90°	45°
		24G90-25	24
24G45-25	24	-	60

## ALUMINUM CURVE SECTIONS

Model	Wheels Per Foot	Weight	
		90°	45°
		12A90-25	12
12A45-25	12	-	23

Model	Wheels Per Foot	Weight	
		90°	45°
		15A90-25	12
15A45-25	12	-	25

Model	Wheels Per Foot	Weight	
		90°	45°
		18A90-25	18
18A45-25	18	-	27

Model	Wheels Per Foot	Weight	
		90°	45°
		24A90-25	24
24A45-25	24	-	34

### Frame Capacity Chart

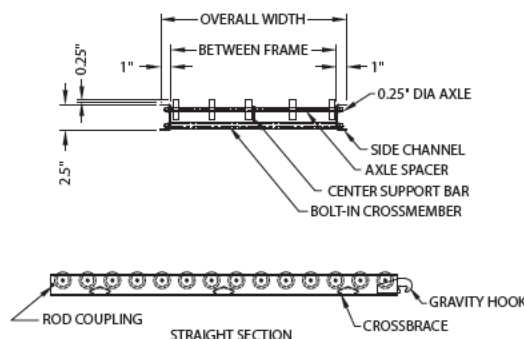
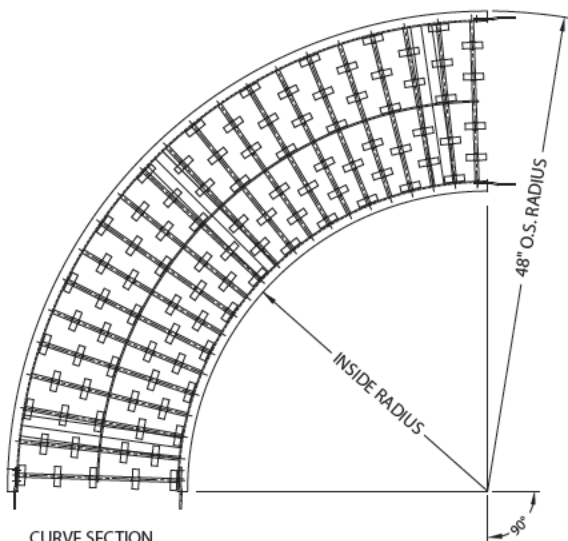
Frame Material	Support Centers	Distributed Live Load Per Foot	Maximum Load Per Wheel
Galvanized Steel	10'	38 lbs.	50 lbs.
	5'	270 lbs.	

NOTE: All capacities are based on distributed loads with a maximum deflection of 1/8" over 10'. Section capacities are subject to the total capacity of all wheels in a section but should not exceed above listed frame capacities.

### Frame Capacity Chart

Frame Material	Support Centers	Distributed Live Load Per Foot	Maximum Load Per Wheel
Aluminum	10'	18 lbs.	45 lbs.
	5'	150 lbs.	

NOTE: All capacities are based on distributed loads with a maximum deflection of 1/8" over 10'. Section capacities are subject to the total capacity of all wheels in a section but should not exceed above listed frame capacities.



### INSIDE RADIUS

Overall Width	Inside Radius
12"	36"
15"	33"
18"	30"
24"	24"

### OUTSIDE RADIUS

Overall Width	Outside Radius
12"	48"
15"	48"
18"	48"
24"	48"

# MODELS "138SR, 138AR and 138SRH" Gravity Roller Conveyor

- Cartons
- Tote pans
- Assembly lines
- Shipping departments



## Steel, Model 138SR and Model 138SRH

### STANDARD SPECIFICATIONS

**Frames** - 2½" deep x 1" flange x 12 gauge powder painted formed steel. Rugged cross members bolted between channels.

**Rollers** - 1⅜" diameter x 18 gauge galvanized steel tubing with swaged ends for a firm bearing seat. Rollers have spring loaded axle for easy removal or insertion.

**Axles** - ¼" diameter cold rolled steel for Model 138SR; ⅝" hex for Model 138SRH.

**Couplings** - Hook and rod.

**Widths** - 12", 15", 18" and 24" overall width.

**Length** - 5' and 10' long straight sections.

**Capacity** - See Frame Capacity Chart.

## Aluminum, Model 138AR

### STANDARD SPECIFICATIONS

**Frames** - 2½" deep x 1" flange x ⅛" heat treated aluminum. Rugged aluminum cross members bolted between channels.

**Rollers** - 1⅜" diameter heat treated aluminum tubing with swaged ends for a firm bearing seat. Rollers have spring loaded axle for easy removal or insertion.

**Axles** - ¼" diameter cold rolled steel.

**Couplings** - Hook and rod.

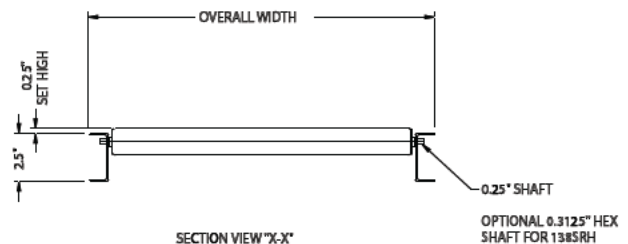
**Widths** - 12", 15", 18" and 24" overall width.

**Length** - 5' and 10' long straight sections.

**Capacity** - See Frame Capacity Chart.

## Frame Capacity Chart

Frame Material	Support Centers	Frame Capacity (lbs.) Maximum Distributed Live Load Per Foot	Roller Capacity (lbs.) Maximum Load Per Roller
Galvanized Steel	5'	270	50
	10'	38	
Aluminum	5'	150	35
	10'	18	



# MODELS "138SR, 138AR and 138SRH"



12" OAW				15" OAW				18" OAW				24" OAW			
Model	Roller Centers	Weight		Model	Roller Centers	Weight		Model	Roller Centers	Weight		Model	Roller Centers	Weight	
		10'	5'			10'	5'			10'	5'			10'	5'
<b>ALUMINUM (Model 138AR) STRAIGHT SECTIONS - WEIGHTS</b>															
138AR-12-1½	1½"	53	29	138AR-15-1½	1½"	56	33	138AR-18-1½	1½"	70	38	138AR-24-1½	1½"	88	48
138AR-12-3	3"	36	20	138AR-15-3	3"	41	23	138AR-18-3	3"	51	27	138AR-24-3	3"	56	30
138AR-12-4½	4½"	30	17	138AR-15-4½	4½"	32	18	138AR-18-4½	4½"	38	20	138AR-24-4½	4½"	46	25
138AR-12-6	6"	27	15	138AR-15-6	6"	29	16	138AR-18-6	6"	33	18	138AR-24-6	6"	41	22
138AR-12-9	9"	24	14	138AR-15-9	9"	26	14	138AR-18-9	9"	30	16	138AR-24-9	9"	36	19
138AR-12-12	12"	23	12	138AR-15-12	12"	24	13	138AR-18-12	12"	27	14	138AR-24-12	12"	33	18
<b>STEEL (Model 138SR) STRAIGHT SECTIONS - WEIGHTS</b>															
138SR-12-1½	1½"	101	55	138SR-15-1½	1½"	122	62	138SR-18-1½	1½"	135	72	138SR-24-1½	1½"	168	91
138SR-12-3	3"	68	37	138SR-15-3	3"	78	42	138SR-18-3	3"	97	47	138SR-24-3	3"	108	58
138SR-12-4½	4½"	58	32	138SR-15-4½	4½"	61	33	138SR-18-4½	4½"	73	40	138SR-24-4½	4½"	88	47
138SR-12-6	6"	52	29	138SR-15-6	6"	55	30	138SR-18-6	6"	63	32	138SR-24-6	6"	78	42
138SR-12-9	9"	47	26	138SR-15-9	9"	50	27	138SR-18-9	9"	57	29	138SR-24-9	9"	69	37
138SR-12-12	12"	44	24	138SR-15-12	12"	46	26	138SR-18-12	12"	52	27	138SR-24-12	12"	63	34
<b>STEEL (Model 138SRH) STRAIGHT SECTIONS - WEIGHTS</b>															
138SRH-12-1½	1½"	111	61	138SRH-15-1½	1½"	134	68	138SRH-18-1½	1½"	148	79	138SRH-24-1½	1½"	184	100
138SRH-12-3	3"	75	41	138SRH-15-3	3"	86	46	138SRH-18-3	3"	106	51	138SRH-24-3	3"	118	64
138SRH-12-4½	4½"	64	35	138SRH-15-4½	4½"	67	36	138SRH-18-4½	4½"	80	44	138SRH-24-4½	4½"	97	52
138SRH-12-6	6"	57	32	138SRH-15-6	6"	60	33	138SRH-18-6	6"	69	35	138SRH-24-6	6"	85	46
138SRH-12-9	9"	52	28	138SRH-15-9	9"	55	30	138SRH-18-9	9"	62	32	138SRH-24-9	9"	76	40
138SRH-12-12	12"	48	26	138SRH-15-12	12"	50	28	138SRH-18-12	12"	57	29	138SRH-24-12	12"	69	37

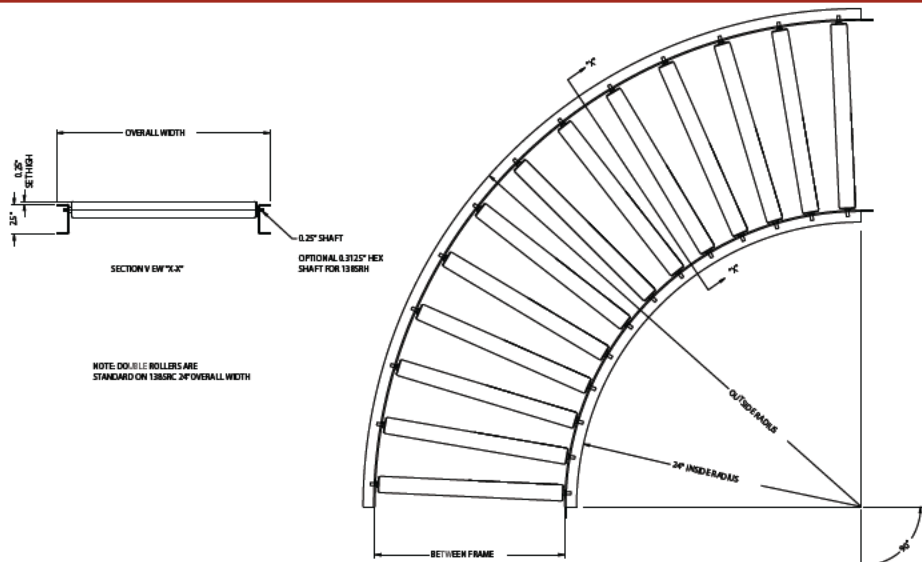
## WEIGHTS - CURVE SECTION

12" OAW - 3'0" O/R*			15" OAW - 3'3" O/R*			18" OAW - 3'6" O/R*			24" OAW - 4'0" O/R*		
Model	Weight		Model	Weight		Model	Weight		Model	Weight	
	90°	45°		90°	45°		90°	45°		90°	45°
<b>ALUMINUM (Model 138ARC) CURVED SECTIONS - WEIGHTS</b>											
138ARC-12-90	28	-	138ARC-15-90	31	-	138ARC-18-90	35	-	138ARC-24-90	50	-
138ARC-12-45	-	12	138ARC-15-45	-	17	138ARC-18-45	-	19	138ARC-24-45	-	26
<b>STEEL (Model 138SRC) CURVED SECTIONS - WEIGHTS</b>											
138SRC-12-90	70	-	138SRC-15-90	75	-	138SRC-18-90	80	-	138SRC-24-90	141	-
138SRC-12-45	-	35	138SRC-15-45	-	40	138SRC-18-45	-	45	138SRC-24-45	-	66
<b>STEEL (Model 138SRCH) CURVED SECTIONS - WEIGHTS</b>											
138SRCH-12-90	77	-	138SRCH-15-90	82	-	138SRCH-18-90	88	-	138SRCH-24-90	155	-
138SRCH-12-45	-	38	138SRCH-15-45	-	44	138SRCH-18-45	-	49	138SRCH-24-45	-	72

\*Outside radius

RADIUS CHART	
Overall Width	Inside Radius
12"	24"
15"	24"
18"	24"
24"	24"

Note: Double rollers are standard on 24" OAW for 138SRC.



NOTE: DOUBLE ROLLERS ARE STANDARD ON 138SRC 24" OVERALL WIDTH

# MODELS "190SR, 190SRC, 190HSR and 190HSRC"

## Gravity Roller Conveyor

### STANDARD SPECIFICATIONS

**Frames** - 3 1/2" deep x 1 1/2" flange x 10 gauge powder painted formed steel with bolt-in cross members, rollers set 1/4" high. Galvanized channels optional.

**Rollers** - 1.9" diameter x 16 gauge steel tubing with swaged ends to provide a firm bearing seat and rounded ends. Galvanized rollers optional. Tapered rollers in curve are 2 1/2" to 1 11/16" taper.

**Bearings** - Labyrinth sealed, lightly oiled.

**Axles** - 7/16" hex shaft, spring-loaded.

**Couplings** - Butt type, for bolting sections together.

**Widths** - From 13" between frames (B/F) and wider in two inch increments up to 27"; also 31", 33", 37" and 39" between rails.

**Lengths** - 5' and 10' long straight sections.

**Capacity** - 240 pounds per roller with 1,350 pounds maximum distributed live load over 10 foot length; 3,100 pounds maximum distributed live load over 5 foot length.

**Curve Degree** - 45° and 90° with 2' 8 1/2" inside radius for widths up to 27" between frames. 4'0" inside radius for 31", 33", 37", and 39" between frames.

### STRAIGHT SECTIONS - WEIGHTS

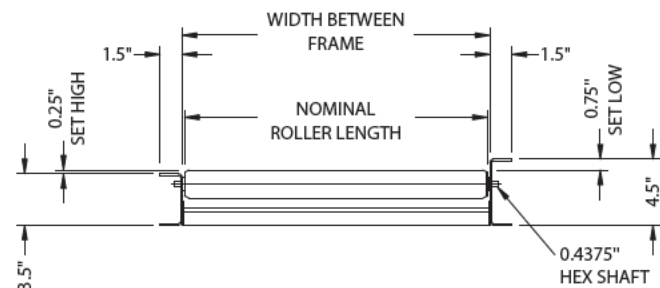
Nominal Roller Length	Width Between Frames	Model No. Galvanized	Model No. (Unplated)	Roller Centers (Inches)	10' Weight (lbs.)	5' Weight (lbs.)
12"	13"	190SR-13-3	190HSR-13-3	3	167	85
		190SR-13-4 1/2	190HSR-13-4 1/2	4 1/2	137	70
		190SR-13-6	190HSR-13-6	6	119	60
		190SR-13-9	190HSR-13-9	9	104	53
		190SR-13-12	190HSR-13-12	12	94	48
14"	15"	190SR-15-3	190HSR-15-3	3	180	91
		190SR-15-4 1/2	190HSR-15-4 1/2	4 1/2	145	74
		190SR-15-6	190HSR-15-6	6	125	64
		190SR-15-9	190HSR-15-9	9	108	55
		190SR-15-12	190HSR-15-12	12	97	50
16"	17"	190SR-17-3	190HSR-17-3	3	192	97
		190SR-17-4 1/2	190HSR-17-4 1/2	4 1/2	153	78
		190SR-17-6	190HSR-17-6	6	131	66
		190SR-17-9	190HSR-17-9	9	112	57
		190SR-17-12	190HSR-17-12	12	100	51
18"	19"	190SR-19-3	190HSR-19-3	3	204	103
		190SR-19-4 1/2	190HSR-19-4 1/2	4 1/2	161	82
		190SR-19-6	190HSR-19-6	6	137	70
		190SR-19-9	190HSR-19-9	9	117	60
		190SR-19-12	190HSR-19-12	12	103	53
20"	21"	190SR-21-3	190HSR-21-3	3	217	110
		190SR-21-4 1/2	190HSR-21-4 1/2	4 1/2	170	86
		190SR-21-6	190HSR-21-6	6	143	73
		190SR-21-9	190HSR-21-9	9	121	62
		190SR-21-12	190HSR-21-12	12	106	54
22"	23"	190SR-23-3	190HSR-23-3	3	229	116
		190SR-23-4 1/2	190HSR-23-4 1/2	4 1/2	178	90
		190SR-23-6	190HSR-23-6	6	150	76
		190SR-23-9	190HSR-23-9	9	125	64
		190SR-23-12	190HSR-23-12	12	109	56
24"	25"	190SR-25-3	190HSR-25-3	3	241	122
		190SR-25-4 1/2	190HSR-25-4 1/2	4 1/2	186	99
		190SR-25-6	190HSR-25-6	6	156	79
		190SR-25-9	190HSR-25-9	9	129	66
		190SR-25-12	190HSR-25-12	12	112	57
26"	27"	190SR-27-3	190HSR-27-3	3	254	128
		190SR-27-4 1/2	190HSR-27-4 1/2	4 1/2	194	98
		190SR-27-6	190HSR-27-6	6	162	82
		190SR-27-9	190HSR-27-9	9	134	68
		190SR-27-12	190HSR-27-12	12	115	58
30"	31"	190SR-31-3	190HSR-31-3	3	279	141
		190SR-31-4 1/2	190HSR-31-4 1/2	4 1/2	211	107
		190SR-31-6	190HSR-31-6	6	174	88
		190SR-31-9	190HSR-31-9	9	142	72
		190SR-31-12	190HSR-31-12	12	122	62
32"	33"	190SR-33-3	190HSR-33-3	3	291	147
		190SR-33-4 1/2	190HSR-33-4 1/2	4 1/2	180	111
		190SR-33-6	190HSR-33-6	6	147	91
		190SR-33-9	190HSR-33-9	9	125	75
		190SR-33-12	190HSR-33-12	12	128	64
36"	37"	190SR-37-3	190HSR-37-3	3	316	159
		190SR-37-4 1/2	190HSR-37-4 1/2	4 1/2	236	119
		190SR-37-6	190HSR-37-6	6	193	96
		190SR-37-9	190HSR-37-9	9	155	79
		190SR-37-12	190HSR-37-12	12	131	67
38"	39"	190SR-39-3	190HSR-39-3	3	328	165
		190SR-39-4 1/2	190HSR-39-4 1/2	4 1/2	244	123
		190SR-39-6	190HSR-39-6	6	199	101
		190SR-39-9	190HSR-39-9	9	159	81
		190SR-39-12	190HSR-39-12	12	134	68

### CURVED SECTIONS - WEIGHTS

TAPERED ROLLERS ARE UNPLATED (2 1/2" to 1 11/16" taper)

	Nominal Roller Length (Inches)	Width Between Frames (Inches)	Model No. (For 90°)	(Unplated) Model No. (For 90°)	90° Weight (lbs.)	45° Weight (lbs.)
20 Rollers Per Curve	12	13	190SRC-13-90T	190HSRC-13-90T	94	52
	14	15	190SRC-15-90T	190HSRC-15-90T	126	68
	16	17	190SRC-17-90T	190HSRC-17-90T	137	74
	18	19	190SRC-19-90T	190HSRC-19-90T	152	91
	20	21	190SRC-21-90T	190HSRC-21-90T	167	89
	22	23	190SRC-23-90T	190HSRC-23-90T	178	94
32 Rollers Per Curve	24	25	190SRC-25-90T	190HSRC-25-90T	204	107
	26	27	190SRC-27-90T	190HSRC-27-90T	235	120
	30*	31	190SRC-31-90T	190HSRC-31-90T	338	174
	32*	33	190SRC-33-90T	190HSRC-33-90T	349	180
	36*	37	190SRC-37-90T	190HSRC-37-90T	371	191
	38*	39	190SRC-39-90T	190HSRC-39-90T	410	210
<b>STRAIGHT ROLLERS</b>						
Single Rollers 22 Per 90° Curve	12	13	190SRC-13-90S	190HSRC-13-90S	97	50
	14	15	190SRC-15-90S	190HSRC-15-90S	105	53
	16	17	190SRC-17-90S	190HSRC-17-90S	114	58
	18	19	190SRC-19-90S	190HSRC-19-90S	122	63
	20	21	190SRC-21-90S	190HSRC-21-90S	131	67
Double Rollers 42 Per 90° Curve	22	23	190SRC-23-90D	190HSRC-23-90D	161	82
	24	25	190SRC-25-90D	190HSRC-25-90D	169	85
	26	27	190SRC-27-90D	190HSRC-27-90D	177	89
	30*	31	190SRC-31-90D	190HSRC-31-90D	211	108
	32*	33	190SRC-33-90D	190HSRC-33-90D	220	112
	36*	37	190SRC-37-90D	190HSRC-37-90D	238	120
	38*	39	190SRC-39-90D	190HSRC-39-90D	247	124

\*4'0" inside radius. All others 2'8 1/2" inside radius.



# MODELS "20SR and 20SRC"

## Gravity Roller Conveyor



### STANDARD SPECIFICATIONS

**Frames** - 3 1/2" deep x 1 1/2" flange x 10 gauge powder painted formed steel with bolt-in cross members, rollers set 1/4" high.

**Rollers** - 2" diameter x 12 gauge unplated steel tubing with swaged ends to provide a firm bearing seat and rounded ends. Tapered rollers in curve are 2 1/2" to 1 1/16" taper, unplated.

**Bearings** - Labyrinth sealed, lightly oiled.

**Axles** - 7/16" hex shaft, spring-loaded.

**Couplings** - Butt type, for bolting sections together.

**Widths** - From 13" between frames (B/F) and wider in two inch increments up to 27"; also 31", 33", 37" and 39" between rails.

**Lengths** - 10' and 5' long straight sections.

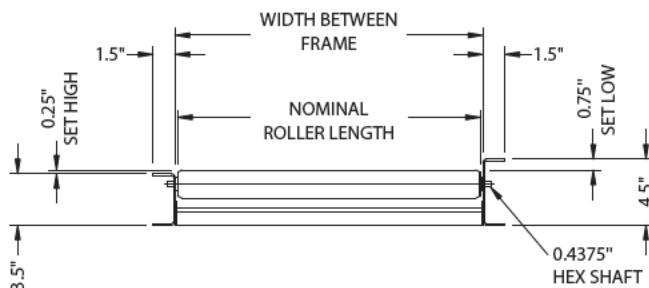
**Capacity** - 300 pounds per roller with 1,350 pounds maximum distributed live load over 10 foot length; 3,100 pounds maximum distributed live load over 5 foot length.

**Curve Degree** - 45° and 90° with 2' 8 1/2" inside radius for widths up to 27" between frames. 4'0" inside radius for 31", 33", 37", and 39" between frames.

### CURVED SECTIONS - WEIGHTS

TAPERED ROLLERS					
	Nominal Roller Length (Inches)	Width Between Frames (Inches)	Model No.	90° Weight (lbs.)	45° Weight (lbs.)
20 Rollers Per Curve	12	13	20SRC-13-90T	104	58
	14	15	20SRC-15-90T	115	63
	16	17	20SRC-17-90T	126	68
	18	19	20SRC-19-90T	139	75
	20	21	20SRC-21-90T	171	91
	22	23	20SRC-23-90T	182	96
32 Rollers Per Curve	24	25	20SRC-25-90T	208	109
	26	27	20SRC-27-90T	234	122
	30*	31	20SRC-31-90T	348	179
	32*	33	20SRC-33-90T	359	185
	36*	37	20SRC-37-90T	381	197
	38*	39	20SRC-39-90T	420	215
STRAIGHT ROLLERS					
Single Rollers 22 Per 90° Curve	12	13	20SRC-13-90S	119	61
	14	15	20SRC-15-90S	131	68
	16	17	20SRC-17-90S	144	73
	18	19	20SRC-19-90S	155	80
Double Rollers 42 Per 90° Curve	20	21	20SRC-21-90S	166	84
	22	23	20SRC-23-90D	199	101
	24	25	20SRC-25-90D	211	106
	26	27	20SRC-27-90D	223	112
	30*	31	20SRC-31-90D	262	134
	32*	33	20SRC-33-90D	275	140
	36*	37	20SRC-37-90D	301	152
	38*	39	20SRC-39-90D	314	158

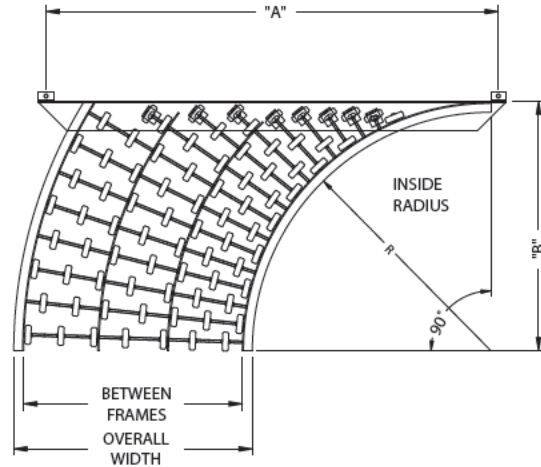
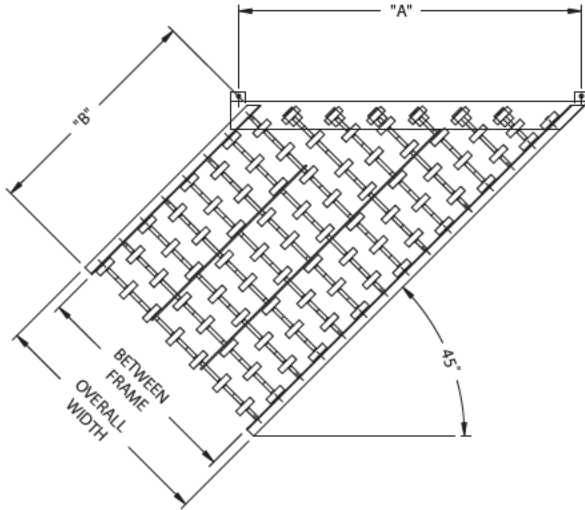
\*4'0" inside radius. All others 2' 8 1/2" inside radius.



### STRAIGHT SECTIONS - WEIGHTS

Nominal Roller Length	Width Between Frames	Model No.	Roller Centers (Inches)	10' Weight (lbs.)	5' Weight (lbs.)
12"	13"	20SR-13-3	3	207	105
		20SR-13-4 1/2	4 1/2	164	84
		20SR-13-6	6	139	70
		20SR-13-9	9	118	60
		20SR-13-12	12	104	53
14"	15"	20SR-15-3	3	227	115
		20SR-15-4 1/2	4 1/2	177	85
		20SR-15-6	6	148	76
		20SR-15-9	9	124	63
		20SR-15-12	12	109	56
16"	17"	20SR-17-3	3	245	124
		20SR-17-4 1/2	4 1/2	189	96
		20SR-17-6	6	158	80
		20SR-17-9	9	131	67
		20SR-17-12	12	113	58
18"	19"	20SR-19-3	3	284	133
		20SR-19-4 1/2	4 1/2	202	103
		20SR-19-6	6	167	85
		20SR-19-9	9	138	71
		20SR-19-12	12	118	61
20"	21"	20SR-21-3	3	284	144
		20SR-21-4 1/2	4 1/2	215	109
		20SR-21-6	6	176	90
		20SR-21-9	9	144	74
		20SR-21-12	12	123	63
22"	23"	20SR-23-3	3	302	153
		20SR-23-4 1/2	4 1/2	227	115
		20SR-23-6	6	187	95
		20SR-23-9	9	151	77
		20SR-23-12	12	127	65
24"	25"	20SR-25-3	3	321	162
		20SR-25-4 1/2	4 1/2	240	126
		20SR-25-6	6	196	99
		20SR-25-9	9	157	80
26"	27"	20SR-25-12	12	132	67
		20SR-27-3	3	341	172
		20SR-27-4 1/2	4 1/2	253	128
		20SR-27-6	6	205	104
30"	31"	20SR-27-9	9	164	83
		20SR-27-12	12	137	69
		20SR-31-3	3	379	191
		20SR-31-4 1/2	4 1/2	279	141
32"	33"	20SR-31-6	6	224	113
		20SR-31-9	9	117	90
		20SR-31-12	12	147	75
		20SR-33-3	3	389	201
36"	37"	20SR-33-4 1/2	4 1/2	291	147
		20SR-33-6	6	233	118
		20SR-33-9	9	184	94
		20SR-33-12	12	152	78
38"	39"	20SR-37-3	3	436	219
		20SR-37-4 1/2	4 1/2	350	175
		20SR-37-6	6	317	160
		20SR-37-9	9	253	128
38"	39"	20SR-37-12	12	161	82
		20SR-39-3	3	455	229
		20SR-39-4 1/2	4 1/2	330	166
		20SR-39-6	6	262	133
38"	39"	20SR-39-9	9	203	103
		20SR-39-12	12	166	84

# MODEL "GS" Gravity Skatewheel Spur Conveyor



## SPECIFICATIONS

Widths - 12", 15", 18" and 24"

Bolt in cross members

Couplings - Bar or hooks on one end

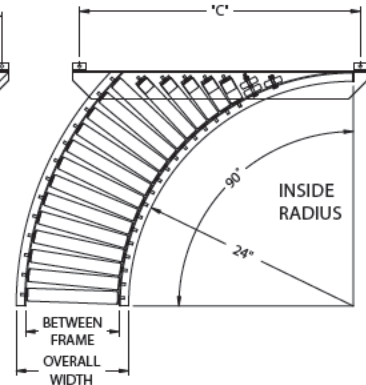
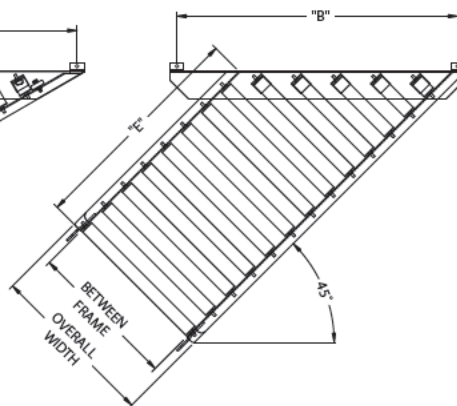
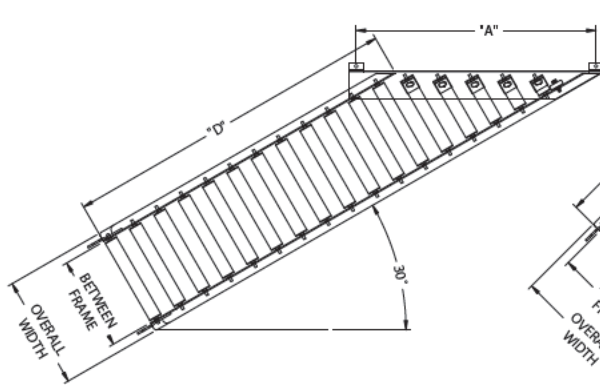
Right and left hand units

Spurs - 45° and 90°

Overall Frame Width	Model No.	45° SPUR					Model No.	90° SPUR				
		"A"	WPF	"B" Weights (lbs.)				"A"	"B"	"R"	WPF	Weights (lbs.)
				2'	3'	5'						
12"	12GS-45-25	21"	16	31	39	56	12GS-90-25	39"	37 1/2"	36"	16	67
15"	15GS-45-25	30"	16	34	43	62	15GS-90-25	39"	34 1/2"	33"	16	72
18"	18GS-45-25	30"	20	38	47	66	18GS-90-25	39"	31 1/2"	30"	20	77
24"	24GS-45-25	39"	28	44	57	83	24GS-90-25	51"	37 1/2"	24"	28	107

NOTE: Same per foot capacities as straight sections shown on page 83.

# MODEL "138SRS" Gravity Roller Spur Conveyor



## SPECIFICATIONS

Widths - 12", 15", 18" and 24"

Spurs - 30°, 45° and 90°

Couplings - Bar or hooks on one end

Right and left hand units

Bolt in cross members

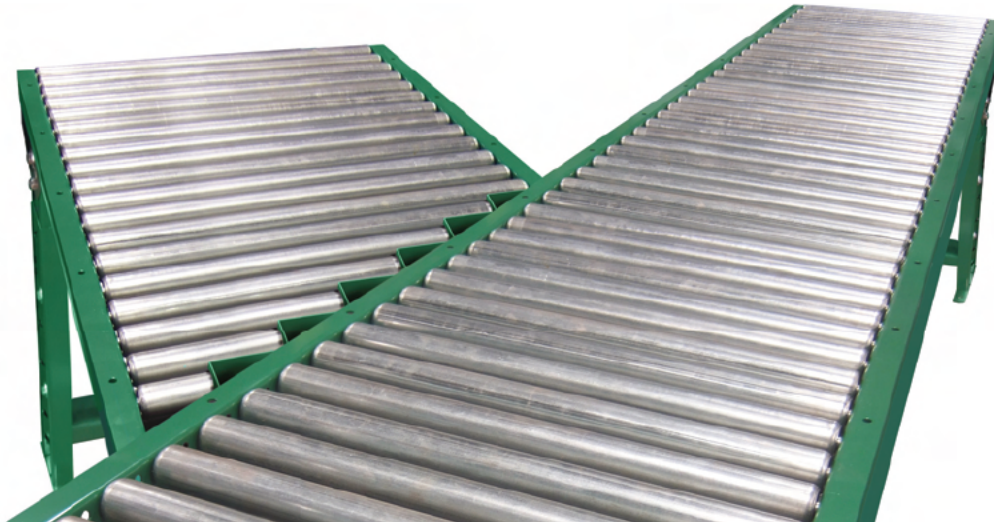
Rollers - 1 3/8" diameter x 18 gauge galvanized rollers

Overall Frame Width	Model No.	30° SPUR				Model No.	45° SPUR				Model No.	90° SPUR	
		"A"	"D" Weights (lbs.)				"B"	"E" Weights (lbs.)				"C"	Weights (lbs.)
			2'	3'	5'			2'	3'	5'			
12"	138SRS-12-30	30"	35	43	64	138SRS-12-45	21"	31	39	60	138SRS-12-90	30"	29
15"	138SRS-15-30	39"	42	54	79	138SRS-15-45	30"	38	50	75	138SRS-15-90	39"	36
18"	138SRS-18-30	39"	48	62	91	138SRS-18-45	30"	44	58	87	138SRS-18-90	39"	42
24"	138SRS-24-30	51"	59	77	113	138SRS-24-45	39"	55	73	109	138SRS-24-90	51"	53

NOTE: Same per foot capacities as straight sections shown on page 84.

# MODEL "190SRS, 190HSRS, and 20SRS"

## Gravity Roller Spur Conveyor



### SPECIFICATIONS

Spurs - 30°, 45° and 90° models available

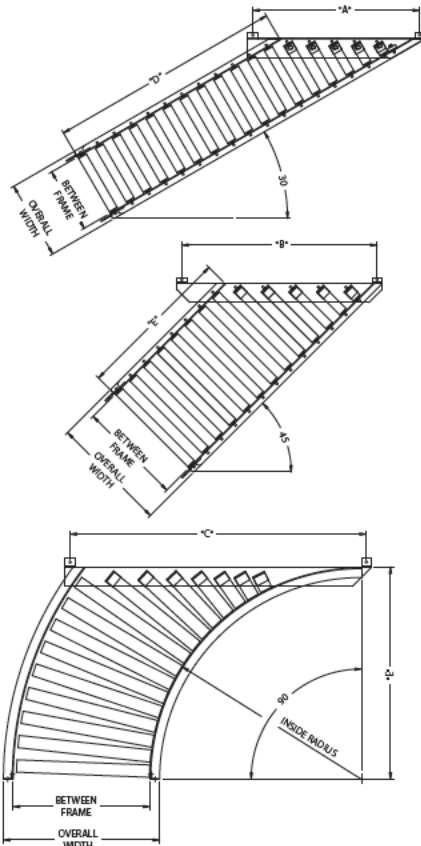
Right or left hand units

Couplings - Butt couplings one end

12 available Widths

Set high or low - set high is standard

Rollers - 1.9" diameter x 16 gauge unplated or galvanized steel; 2" diameter x 12 gauge unplated



NOTE: Same per foot capacities as straight sections shown on pages 86 and 87.

Between Rail Width	Nominal Roller Length	30° SPUR:			Weights (lbs.)						
		Model No.			"A"	"D" 1.9" Roller			"D" 2" Roller		
		1.9" Roller	1.9" Roller	2" Roller		2'	3'	5'	2'	3'	5'
13"	12"	190SRS-13-30	190HSRS-13-30	20SRS-13-30	42"	56	73	107	68	89	131
15"	14"	190SRS-15-30	190HSRS-15-30	20SRS-15-30	42"	59	77	113	74	97	143
17"	16"	190SRS-17-30	190HSRS-17-30	20SRS-17-30	42"	62	81	119	77	101	149
19"	18"	190SRS-19-30	190HSRS-19-30	20SRS-19-30	54"	65	85	125	83	109	161
21"	20"	190SRS-21-30	190HSRS-21-30	20SRS-21-30	54"	71	93	137	89	117	173
23"	22"	190SRS-23-30	190HSRS-23-30	20SRS-23-30	54"	74	97	143	95	125	185
25"	24"	190SRS-25-30	190HSRS-25-30	20SRS-25-30	66"	77	101	149	101	133	197
27"	26"	190SRS-27-30	190HSRS-27-30	20SRS-27-30	66"	80	105	155	107	141	209
31"	30"	190SRS-31-30	190HSRS-31-30	20SRS-31-30	78"	89	117	173	119	157	223
33"	32"	190SRS-33-30	190HSRS-33-30	20SRS-33-30	78"	92	121	179	131	173	257
37"	36"	190SRS-37-30	190HSRS-37-30	20SRS-37-30	87"	95	125	185	134	177	263
39"	38"	190SRS-39-30	190HSRS-39-30	20SRS-39-30	87"	104	137	203	139	180	275
		45° SPUR:			"B"						
13"	12"	190SRS-13-45	190HSRS-13-45	20SRS-13-45	33"	51	67	100	63	83	124
15"	14"	190SRS-15-45	190HSRS-15-45	20SRS-15-45	33"	54	71	112	72	95	142
17"	16"	190SRS-17-45	190HSRS-17-45	20SRS-17-45	33"	58	75	112	72	95	142
19"	18"	190SRS-19-45	190HSRS-19-45	20SRS-19-45	42"	60	79	119	78	103	154
21"	20"	190SRS-21-45	190HSRS-21-45	20SRS-21-45	42"	66	88	130	84	111	166
23"	22"	190SRS-23-45	190HSRS-23-45	20SRS-23-45	42"	69	91	136	90	119	179
25"	24"	190SRS-25-45	190HSRS-25-45	20SRS-25-45	48"	72	95	142	96	127	190
27"	26"	190SRS-27-45	190HSRS-27-45	20SRS-27-45	48"	75	99	148	102	135	202
31"	30"	190SRS-31-45	190HSRS-31-45	20SRS-31-45	54"	84	111	166	114	151	216
33"	32"	190SRS-33-45	190HSRS-33-45	20SRS-33-45	54"	84	115	172	126	166	250
37"	36"	190SRS-37-45	190HSRS-37-45	20SRS-37-45	66"	90	119	178	129	171	256
39"	38"	190SRS-39-45	190HSRS-39-45	20SRS-39-45	66"	99	131	196	134	174	269
		90° SPUR:			"C"	"E"	Inside Radius	Weights (lbs.)			
	Between Rail Width	Nominal Roller Length	Model No.								
S I D E R	13"	12"	190SRS-13-90	190HSRS-13-90	20SRS-13-90	42"	33"	32 1/2"	92		
	15"	14"	190SRS-15-90	190HSRS-15-90	20SRS-15-90	42"			100		
	17"	16"	190SRS-17-90	190HSRS-17-90	20SRS-17-90	48"			109		
	19"	18"	190SRS-19-90	190HSRS-19-90	20SRS-19-90	48"			117		
	21"	20"	190SRS-21-90	190HSRS-21-90	20SRS-21-90	48"			126		
D R O O L B L E R	23"	22"	190SRS-23-90	190HSRS-23-90	20SRS-23-90	54"	48 1/2"	48"	156		
	25"	24"	190SRS-25-90	190HSRS-25-90	20SRS-25-90	54"			164		
	27"	26"	190SRS-27-90	190HSRS-27-90	20SRS-27-90	54"			172		
	31"	30"	190SRS-31-90	190HSRS-31-90	20SRS-31-90	66"			206		
	33"	32"	190SRS-33-90	190HSRS-33-90	20SRS-33-90	78"			215		
	37"	36"	190SRS-37-90	190HSRS-37-90	20SRS-37-90	78"			233		
	39"	38"	190SRS-39-90	190HSRS-39-90	20SRS-39-90	78"			242		

\*4'0" inside radius. All others 2'8 1/2" inside radius.



# MODEL "199SR & 199SRC"

## Gravity Roller Conveyor

### STANDARD SPECIFICATIONS

**Frames** - 3 1/2" deep x 1 1/2" x 10 gauge powder painted formed steel; powder painted bolt-in cross members; rollers set 1/4" high.

**Rollers** - 1.9" diameter x 9 gauge steel tubing. 2 1/2" to 1 11/16" tapered rollers available for curves.

**Bearings** - Labyrinth sealed and lightly oiled.

**Axles** - 7/16" hex shaft, spring-loaded.

**Couplings** - Butt type, for bolting sections together.

**Widths** - From 13" between frames (B/F) and wider in two inch increments up to 27" between frames. Also 31", 33", 37" and 39" between frames.

**Lengths** - 10' and 5' straight sections.

**Curve Degree** - 45° and 90° with 2' 8 1/2" inside radius for widths up to 27" between frames. 4'0" inside radius for 31", 33", 37", and 39" between frames.

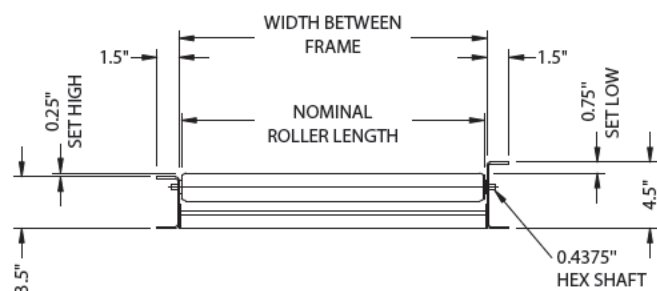
**Capacity** - 300 pounds per roller with 1,350 pounds maximum distributed live load over 10' length; 3,150 pounds maximum distributed live load over 5' length.

### CURVED SECTIONS - WEIGHTS

#### TAPERED ROLLER CURVE

	Nominal Roller Length (Inches)	Width Between Frames (Inches)	Model No.	90° Weight (lbs.)	45° Weight (lbs.)
20 Rollers Per Curve	12	13	199SRC-13-90T	94	52
	14	15	199SRC-15-90T	126	68
	16	17	199SRC-17-90T	137	74
	18	19	199SRC-19-90T	152	81
	20	21	199SRC-21-90T	167	89
	22	23	199SRC-23-90T	178	94
32 Rollers Per Curve	24	25	199SRC-25-90T	204	107
	26	27	199SRC-27-90T	230	120
	30*	31	199SRC-31-90T	338	174
	32*	33	199SRC-33-90T	349	180
	36*	37	199SRC-37-90T	371	191
	38*	39	199SRC-39-90T	410	210
STRAIGHT ROLLER CURVE					
Single Rollers 22 Per 90° Curve	12	13	199SRC-13-90S	97	50
	14	15	199SRC-15-90S	105	53
	16	17	199SRC-17-90S	114	58
	18	19	199SRC-19-90S	122	63
Double Rollers 42 Per 90° Curve	20	21	199SRC-21-90S	131	67
	22	23	199SRC-23-90D	161	82
	24	25	199SRC-25-90D	169	85
	26	27	199SRC-27-90D	177	89
	30*	31	199SRC-31-90D	211	108
	32*	33	199SRC-33-90D	220	112
	36*	37	199SRC-37-90D	238	120
	38*	39	199SRC-39-90D	247	124

\*4'0" inside radius. All others 2' 8 1/2" inside radius.



### STRAIGHT SECTIONS - WEIGHTS

Nominal Roller Length	Width Between Frames	Model No.	Roller Centers (Inches)	10' Weight (lbs.)	5' Weight (lbs.)
12"	13"	199SR-13-3	3	233	119
		199SR-13-4 1/2	4 1/2	180	92
		199SR-13-6	6	152	78
		199SR-13-9	9	125	65
		199SR-13-12	12	110	57
14"	15"	199SR-15-3	3	255	130
		199SR-15-4 1/2	4 1/2	194	113
		199SR-15-6	6	163	84
		199SR-15-9	9	132	69
		199SR-15-12	12	116	60
16"	17"	199SR-17-3	3	276	141
		199SR-17-4 1/2	4 1/2	208	107
		199SR-17-6	6	173	89
		199SR-17-9	9	140	73
		199SR-17-12	12	121	62
18"	19"	199SR-19-3	3	299	152
		199SR-19-4 1/2	4 1/2	223	114
		199SR-19-6	6	185	95
		199SR-19-9	9	148	78
		199SR-19-12	12	127	66
20"	21"	199SR-21-3	3	322	164
		199SR-21-4 1/2	4 1/2	238	121
		199SR-21-6	6	196	100
		199SR-21-9	9	155	73
		199SR-21-12	12	132	68
22"	23"	199SR-23-3	3	344	175
		199SR-23-4 1/2	4 1/2	253	128
		199SR-23-6	6	208	106
		199SR-23-9	9	162	85
		199SR-23-12	12	138	71
24"	25"	199SR-25-3	3	366	186
		199SR-25-4 1/2	4 1/2	267	136
		199SR-25-6	6	219	111
		199SR-25-9	9	170	89
		199SR-25-12	12	143	74
26"	27"	199SR-27-3	3	389	196
		199SR-27-4 1/2	4 1/2	282	143
		199SR-27-6	6	230	117
		199SR-27-9	9	178	103
		199SR-27-12	12	149	77
30"	31"	199SR-31-3	3	434	219
		199SR-31-4 1/2	4 1/2	312	157
		199SR-31-6	6	252	128
		199SR-31-9	9	192	100
		199SR-31-12	12	101	82
32"	33"	199SR-33-3	3	456	230
		199SR-33-4 1/2	4 1/2	326	166
		199SR-33-6	6	263	133
		199SR-33-9	9	201	105
		199SR-33-12	12	166	86
36"	37"	199SR-37-3	3	501	252
		199SR-37-4 1/2	4 1/2	356	180
		199SR-37-6	6	286	145
		199SR-37-9	9	215	112
		199SR-37-12	12	177	91
38"	39"	199SR-39-3	3	523	263
		199SR-39-4 1/2	4 1/2	371	187
		199SR-39-6	6	297	151
		199SR-39-9	9	222	116
		199SR-39-12	12	183	93

# MODEL "254SR & 254SRC"

## Gravity Roller Conveyor



### STANDARD SPECIFICATIONS

**Frames** - 3 1/2" deep x 1 1/2" x 10 gauge powder painted formed steel with bolted cross members. Rollers set 1/4" high.

**Rollers** - 2 1/2" diameter x 14 gauge steel tubing with swaged ends to provide firm bearing seat. 2 1/2" to 1 11/16" tapered rollers available for curves.

**Bearings** - Labyrinth sealed and lightly oiled.

**Axles** - 7/16" hex shaft, spring-loaded.

**Couplings** - Butt type, for bolting sections together.

**Widths** - From 13" between frames (B/F) and wider in two inch increments up to 27" between frames. Also 31", 33", 37", 39", 45", 51" and 55" between frames.

**Lengths** - 10' and 5' straight sections.

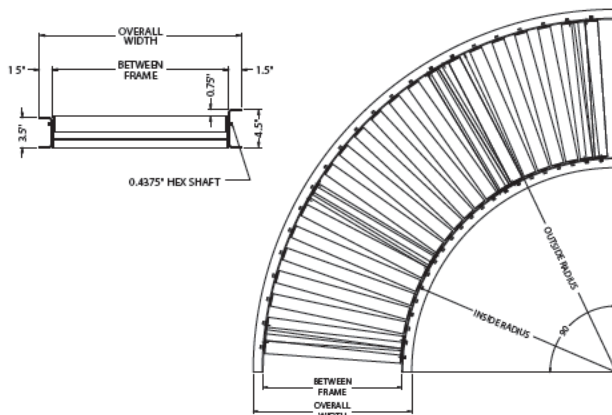
**Curve Degree** - 45° and 90° with 2' 8 1/2" inside radius for widths up to 27" between frames. 4'0" inside radius for 31", 33", 37", and 39" between frames.

**Capacity** - 350 pounds per roller on narrow sizes, with 1,350 pounds maximum live load on 10' sections; 3,300 pounds maximum live load on 5' section.

### CURVED SECTIONS - WEIGHTS

	Nominal Roller Length (Inches)	Width Between Frames (Inches)	Model No.	90° Weight (lbs.)	45° Weight (lbs.)
Single Rollers	12	13	254SRC-13-90S	119	61
	14	15	254SRC-15-90S	131	68
	16	17	254SRC-17-90S	144	73
	18	19	254SRC-19-90S	155	80
	20	21	254SRC-21-90S	166	84
Double Rollers	22	23	254SRC-23-90D	199	101
	24	25	254SRC-25-90D	211	106
	26	27	254SRC-27-90D	223	112
	30*	31	254SRC-31-90D	262	134
	32*	33	254SRC-33-90D	275	140
	36*	37	254SRC-37-90D	301	152
	38*	39	254SRC-39-90D	314	158
20T Rollers Per Curve	12	13	254SRC-13-90T	104	58
	14	15	254SRC-15-90T	115	63
	16	17	254SRC-17-90T	126	68
	18	19	254SRC-19-90T	139	75
	20	21	254SRC-21-90T	171	91
	22	23	254SRC-23-90T	182	96
	24	25	254SRC-25-90T	208	109
32T Rollers Per Curve	30*	31	254SRC-31-90T	348	179
	32*	33	254SRC-33-90T	359	185
	36*	37	254SRC-37-90T	381	197
	38*	39	254SRC-39-90T	420	215

\*4'0" inside radius. All others 2' 8 1/2" inside radius.



### STRAIGHT SECTIONS - WEIGHTS

Nominal Roller Length	Width Between Frames	Model No.	Roller Centers (Inches)	10' Weight (lbs.)	5' Weight (lbs.)
12"	13"	254SR-13-3	3	230	128
		254SR-13-4 1/2	4 1/2	178	98
		254SR-13-6	6	134	83
		254SR-13-9	9	125	69
		254SR-13-12	12	110	59
14"	15"	254SR-15-3	3	250	137
		254SR-15-4 1/2	4 1/2	190	104
		254SR-15-6	6	160	87
		254SR-15-9	9	131	72
		254SR-15-12	12	114	62
16"	17"	254SR-17-3	3	268	146
		254SR-17-4 1/2	4 1/2	203	110
		254SR-17-6	6	169	92
		254SR-17-9	9	137	78
		254SR-17-12	12	119	64
18"	19"	254SR-19-3	3	287	156
		254SR-19-4 1/2	4 1/2	215	117
		254SR-19-6	6	178	97
		254SR-19-9	9	145	79
		254SR-19-12	12	124	67
20"	21"	254SR-21-3	3	307	166
		254SR-21-4 1/2	4 1/2	228	123
		254SR-21-6	6	178	101
		254SR-21-9	9	151	82
		254SR-21-12	12	128	69
22"	23"	254SR-23-3	3	325	175
		254SR-23-4 1/2	4 1/2	241	129
		254SR-23-6	6	198	106
		254SR-23-9	9	157	85
		254SR-23-12	12	133	72
24"	25"	254SR-25-3	3	344	184
		254SR-25-4 1/2	4 1/2	253	135
		254SR-25-6	6	208	111
		254SR-25-9	9	163	89
		254SR-25-12	12	138	73
26"	27"	254SR-27-3	3	364	190
		254SR-27-4 1/2	4 1/2	265	141
		254SR-27-6	6	217	115
		254SR-27-9	9	170	92
		254SR-27-12	12	142	76
30"	31"	254SR-31-3	3	402	213
		254SR-31-4 1/2	4 1/2	291	153
		254SR-31-6	6	233	125
		254SR-31-9	9	182	92
		254SR-31-12	12	153	81
32"	33"	254SR-33-3	3	421	223
		254SR-33-4 1/2	4 1/2	303	161
		254SR-33-6	6	245	129
		254SR-33-9	9	223	102
		254SR-33-12	12	157	84
36"	37"	254SR-37-3	3	459	241
		254SR-37-4 1/2	4 1/2	329	173
		254SR-37-6	6	264	140
		254SR-37-9	9	202	108
		254SR-37-12	12	167	88
38"	39"	254SR-39-3	3	477	251
		254SR-39-4 1/2	4 1/2	341	179
		254SR-39-6	6	274	143
		254SR-39-9	9	208	112
		254SR-39-12	12	171	90
44"	45"	254SR-45-3	3	534	278
		254SR-45-4 1/2	4 1/2	380	197
		254SR-45-6	6	303	160
		254SR-45-9	9	226	121
		254SR-45-12	12	186	96
50"	51"	254SR-51-3	3	591	305
		254SR-51-4 1/2	4 1/2	419	215
		254SR-51-6	6	331	176
		254SR-51-9	9	244	130
		254SR-51-12	12	201	102
54"	55"	254SR-55-3	3	629	323
		254SR-55-4 1/2	4 1/2	445	227
		254SR-55-6	6	350	187
		254SR-55-9	9	256	136
		254SR-55-12	12	211	106

# MODEL "251SR & 251SRC"

## Gravity Roller Conveyor

### STANDARD SPECIFICATIONS

**Frames** - 4" x 4 gauge steel channel with bolted cross members, powder painted. Rollers set 1/4" high.

**Rollers** - 2 1/2" x 11 gauge steel tubing with swaged bearings.

**Bearings** - Labyrinth sealed and grease packed.

**Axles** - 1 1/16" hex shaft, spring-loaded.

**Couplings** - Splice plates, for bolting sections together.

**Widths** - 13" between frames (B/F) and wider in two inch increments up to 27" between frames. Also 31", 33", 37", 39", 45", 51", 55" and 59" between frames.

**Lengths** - 10' and 5' straight sections.

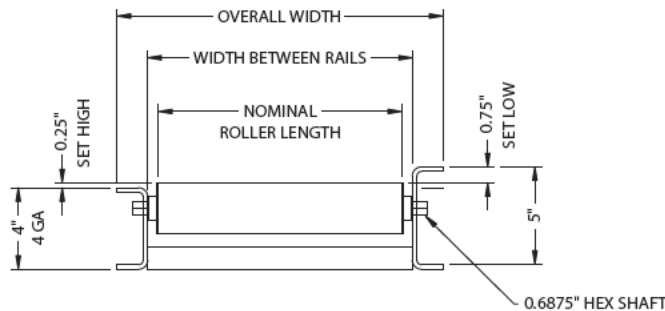
**Curve Degree** - 45° and 90° with 2' 8 1/2" inside radius for widths up to 27" between frames. 4'0" inside radius for 31", 33", 37", and 39" between frames. Tapered roller curve available.

**Capacity** - 650 pounds per roller with 3,750 pounds maximum distributed live load over 10 feet for 12" nominal roll to 3,500 pounds on widest sizes; 8,000 pounds maximum distributed live load over 5' lengths. Curve sections same as 10'. All capacities based on 3" centers.

### CURVED SECTIONS - WEIGHTS

	Nominal Roller Length (Inches)	Width Between Frames (Inches)	Model No. (For 90°)	90° Weight (lbs.)	45° Weight (lbs.)
<b>Single Roller</b>	12	13	251SRC-13-90S	165	84
	14	15	251SRC-15-90S	180	91
	16	17	251SRC-17-90S	195	99
	18	19	251SRC-19-90S	210	106
	22	23	251SRC-23-90S	240	121
<b>90° Curve</b>	26	27	251SRC-27-90S	270	136
	30*	31	251SRC-31-90D	400	216
	32*	33	251SRC-33-90D	418	236
<b>Double Rollers</b>	36*	37	251SRC-37-90D	453	245
	37*	39	251SRC-39-90D	471	255
	38*	39	251SRC-39-90D	471	255

\*4'0" inside radius. All others 2' 8 1/2" inside radius.



### STRAIGHT SECTIONS - WEIGHTS

Nominal Roller Length	Width Between Frames	Model No.	Roller Centers (Inches)	10' Weight (lbs.)	5' Weight (lbs.)
12"	13"	251SR-13-3	3	364	185
		251SR-13-4	4	303	155
		251SR-13-6	6	242	125
		251SR-13-9	9	212	113
		251SR-13-12	12	182	95
14"	15"	251SR-15-3	3	395	202
		251SR-15-4	4	327	168
		251SR-15-6	6	259	134
		251SR-15-9	9	225	120
		251SR-15-12	12	191	100
16"	17"	251SR-17-3	3	427	218
		251SR-17-4	4	351	180
		251SR-17-6	6	276	142
		251SR-17-9	9	238	127
		251SR-17-12	12	200	104
18"	19"	251SR-19-3	3	458	234
		251SR-19-4	4	375	192
		251SR-19-6	6	292	151
		251SR-19-9	9	251	134
		251SR-19-12	12	209	110
22"	23"	251SR-23-3	3	521	266
		251SR-23-4	4	423	217
		251SR-23-6	6	325	168
		251SR-23-9	9	276	149
		251SR-23-12	12	227	120
26"	27"	251SR-27-3	3	583	289
		251SR-27-4	4	471	242
		251SR-27-6	6	358	186
		251SR-27-9	9	302	163
		251SR-27-12	12	246	129
30"	31"	251SR-31-3	3	646	331
		251SR-31-4	4	519	267
		251SR-31-6	6	391	203
		251SR-31-9	9	328	178
		251SR-31-12	12	264	139
32"	33"	251SR-33-3	3	679	347
		251SR-33-4	4	544	280
		251SR-33-6	6	409	213
		251SR-33-9	9	341	185
		251SR-33-12	12	273	145
36"	37"	251SR-37-3	3	740	379
		251SR-37-4	4	590	304
		251SR-37-6	6	441	229
		251SR-37-9	9	366	199
		251SR-37-12	12	291	154
38"	39"	251SR-39-3	3	771	395
		251SR-39-4	4	614	316
		251SR-39-6	6	457	238
		251SR-39-9	9	379	207
		251SR-39-12	12	300	159
44"	45"	251SR-45-3	3	863	443
		251SR-45-4	4	694	352
		251SR-45-6	6	473	291
		251SR-45-9	9	417	229
		251SR-45-12	12	327	173
50"	51"	251SR-51-3	3	955	491
		251SR-51-4	4	754	388
		251SR-51-6	6	489	344
		251SR-51-9	9	455	251
		251SR-51-12	12	354	187
54"	55"	251SR-55-3	3	1016	523
		251SR-55-4	4	800	412
		251SR-55-6	6	521	360
		251SR-55-9	9	480	265
		251SR-55-12	12	372	196
58"	59"	251SR-59-3	3	1077	555
		251SR-59-4	4	846	436
		251SR-59-6	6	553	376
		251SR-59-9	9	505	279
		251SR-59-12	12	309	205

# MODEL "267SR & 267SRC"

## Gravity Roller Conveyor



### STANDARD SPECIFICATIONS

**Frames** - 4" deep x 4 gauge channel with bolted cross members, powder painted. Rollers set 1/4" high.

**Rollers** - 2 5/8" diameter x 7 gauge steel tubing with swaged bearings.

**Bearings** - Labyrinth sealed and grease packed.

**Axles** - 1 1/16" hex shaft, spring-loaded.

**Couplings** - Splice plates, for bolting sections together.

**Widths** - From 13" between frames (B/F) and wider in two inch increments up to 27" between frames. Also 31", 33", 37", 39", 45", 51", 55" and 59" between rails.

**Lengths** - 10' and 5' straight sections.

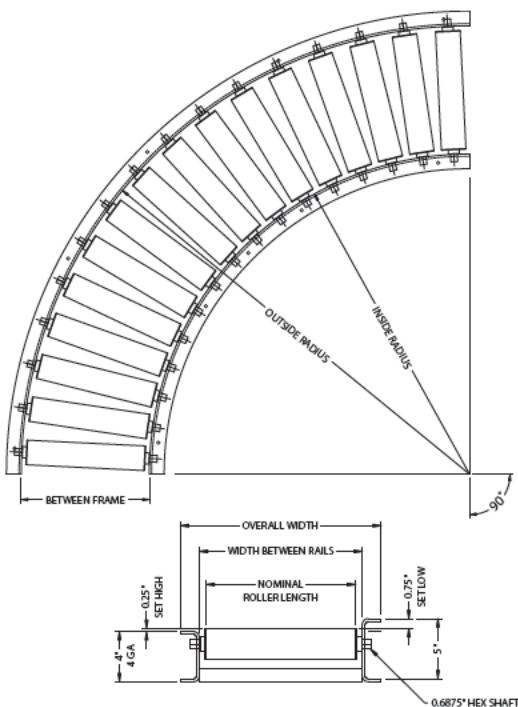
**Curve Degree** - 45° and 90° with 2' 8 1/2" inside radius for widths up to 27" between frames. 4' 0" inside radius for 31", 33", 37" and 39" between frames. Tapered roller curves available.

**Capacity** - 650 pounds per roller with 3,750 pounds maximum distributed live load over 10'; 8,000 pounds maximum distributed live load over 5' lengths. Curve sections same as 10'. All capacities based on 3" centers.

### CURVED SECTIONS - WEIGHTS

	Nominal Roller Length (Inches)	Width Between Rails (Inches)	Model No. (For 90°)	90° Weight (lbs.)	45° Weight (lbs.)
Single Rollers 16 Per 90° Curve	12	13	267SRC-13-90S	190	96
	14	15	267SRC-15-90S	209	106
	16	17	267SRC-17-90S	229	116
	18	19	267SRC-19-90S	248	125
	22	23	267SRC-23-90S	286	144
	26	27	267SRC-27-90S	325	164
Double Rollers 37 Per 90° Curve	30*	31	267SRC-31-90D	451	247
	32*	33	267SRC-33-90D	493	268
	36*	37	267SRC-37-90D	538	292
	38*	39	267SRC-39-90D	561	305

\*4'0" inside radius. All others 2' 8 1/2" inside radius.

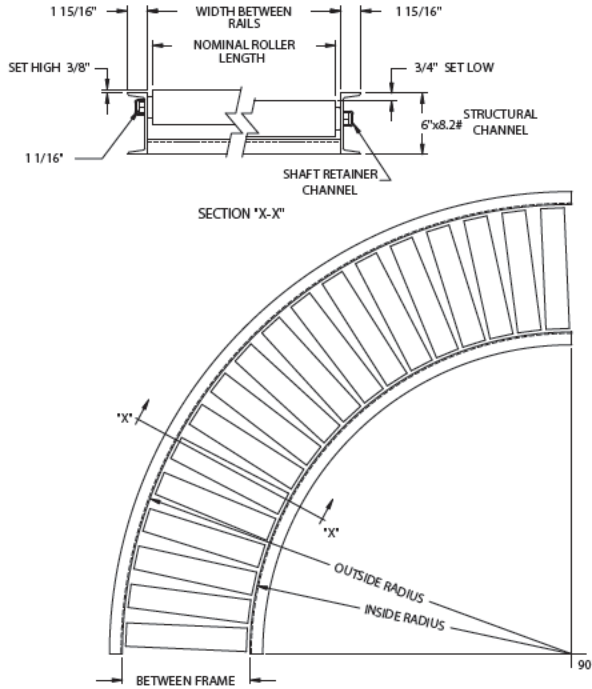


### STRAIGHT SECTIONS - WEIGHTS

Nominal Roller Length	Width Between Frames	Model No.	Roller Centers (Inches)	10' Weight (lbs.)	5' Weight (lbs.)
12"	13"	267SR-13-3	3	427	217
		267SR-13-4	4	351	179
		267SR-13-6	6	274	141
		267SR-13-9	9	236	125
		267SR-13-12	12	198	102
14"	15"	267SR-15-3	3	469	239
		267SR-15-4	4	383	195
		267SR-15-6	6	296	152
		267SR-15-9	9	253	135
		267SR-15-12	12	209	109
16"	17"	267SR-17-3	3	511	260
		267SR-17-4	4	415	212
		267SR-17-6	6	318	163
		267SR-17-9	9	269	144
		267SR-17-12	12	221	115
18"	19"	267SR-19-3	3	553	282
		267SR-19-4	4	446	228
		267SR-19-6	6	340	175
		267SR-19-9	9	286	153
		267SR-19-12	12	233	121
22"	23"	267SR-23-3	3	637	324
		267SR-23-4	4	510	261
		267SR-23-6	6	383	198
		267SR-23-9	9	320	172
		267SR-23-12	12	256	134
26"	27"	267SR-27-3	3	721	367
		267SR-27-4	4	574	294
		267SR-27-6	6	427	220
		267SR-27-9	9	353	191
		267SR-27-12	12	280	147
30"	31"	267SR-31-3	3	805	410
		267SR-31-4	4	638	326
		267SR-31-6	6	471	243
		267SR-31-9	9	387	209
		267SR-31-12	12	304	159
32"	33"	267SR-33-3	3	847	431
		267SR-33-4	4	670	343
		267SR-33-6	6	492	254
		267SR-33-9	9	404	219
		267SR-33-12	12	315	166
36"	37"	267SR-37-3	3	931	474
		267SR-37-4	4	733	376
		267SR-37-6	6	536	277
		267SR-37-9	9	438	237
		267SR-37-12	12	339	178
38"	39"	267SR-39-3	3	973	496
		267SR-39-4	4	765	392
		267SR-39-6	6	558	288
		267SR-39-9	9	455	247
		267SR-39-12	12	351	185
44"	45"	267SR-45-3	3	1099	561
		267SR-45-4	4	860	441
		267SR-45-6	6	624	322
		267SR-45-9	9	506	275
		267SR-45-12	12	387	204
50"	51"	267SR-51-3	3	1225	626
		267SR-51-4	4	955	490
		267SR-51-6	6	690	356
		267SR-51-9	9	557	303
		267SR-51-12	12	423	223
54"	55"	267SR-55-3	3	1309	669
		267SR-55-4	4	1018	523
		267SR-55-6	6	734	379
		267SR-55-9	9	591	321
		267SR-55-12	12	447	235
58"	59"	267SR-59-3	3	1393	712
		267SR-59-4	4	1081	556
		267SR-59-6	6	778	402
		267SR-59-9	9	625	339
		267SR-59-12	12	471	247

# MODELS "350SR & 350SRC"

## Gravity Roller Conveyor



### STRAIGHT SECTIONS - WEIGHTS

Nominal Roller Length	Width Between Frames	Model No.	Roller Centers (Inches)	10' Weight (lbs.)	5' Weight (lbs.)
6"	7"	350SR-7-4	4	468	236
		350SR-7-6	6	366	185
		350SR-7-8	8	315	160
		350SR-7-12	12	264	134
10"	11"	350SR-11-4	4	611	315
		350SR-11-6	6	464	234
		350SR-11-8	8	390	204
		350SR-11-12	12	317	168
14"	15"	350SR-15-4	4	755	387
		350SR-15-6	6	563	291
		350SR-15-8	8	466	242
		350SR-15-12	12	370	194
18"	19"	350SR-19-4	4	899	454
		350SR-19-6	6	661	332
		350SR-19-8	8	542	273
		350SR-19-12	12	423	214
22"	23"	350SR-23-4	4	1042	523
		350SR-23-6	6	759	383
		350SR-23-8	8	617	311
		350SR-23-12	12	476	240
26"	27"	350SR-27-4	4	1185	595
		350SR-27-6	6	857	431
		350SR-27-8	8	693	349
		350SR-27-12	12	529	267
30"	31"	350SR-31-4	4	1329	677
		350SR-31-6	6	955	480
		350SR-31-8	8	769	397
		350SR-31-12	12	582	293
34"	35"	350SR-35-4	4	1472	736
		350SR-35-6	6	1053	529
		350SR-35-8	8	844	424
		350SR-35-12	12	634	319
38"	39"	350SR-39-4	4	1615	810
		350SR-39-6	6	1151	578
		350SR-39-8	8	919	462
		350SR-39-12	12	687	346
42"	43"	350SR-43-4	4	1759	892
		350SR-43-6	6	1250	627
		350SR-43-8	8	994	500
		350SR-43-12	12	741	373
46"	47"	350SR-47-4	4	1903	954
		350SR-47-6	6	1348	676
		350SR-47-8	8	1071	538
		350SR-47-12	12	795	399
50"	51"	350SR-51-4	4	2045	1025
		350SR-51-6	6	1446	727
		350SR-51-8	8	1147	575
		350SR-51-12	12	846	425

### STANDARD SPECIFICATIONS

**Frames** - 6" x 8.2 pound structural steel channel with welded cross members powder painted. Rollers set 3/8" high.

**Rollers** - 3 1/2" diameter x .30 wall with machined ends for press fit bearings.

**Bearings** - Labyrinth sealed and grease packed.

**Axles** - 1 1/16" hex shaft, pinned in curved conveyor, retainer panels in straight conveyor.

**Couplings** - Butt type, for bolting frames together.

**Widths** - 7" between frames (B/F) and wider up to 51" between frames.

**Length** - 5' and 10' straight sections.

**Capacity** - 1200 pounds per roller, with 8400 pounds maximum distributed live load over 10 feet; 16,700 pounds maximum distributed live load over 5 feet lengths. All capacities are based on 4" centers.

**Curve Degree** - 45° and 90° with 4'0" inside radius only. Tapered rollers not available.

### CURVED SECTIONS - WEIGHTS

	Nominal Roller Length*	Width Between Frames	Model No. (for 90°)	90° Weight (lbs.)	45° Weight (lbs.)
<b>18 Rollers per 90° Curve</b>	6"	7"	350SRC-7-90S	328	165
	10"	11"	350SRC-11-90S	428	220
	14"	15"	350SRC-15-90S	529	270
	18"	19"	350SRC-19-90S	630	318
<b>33 Rollers per 90° Curve</b>	22"	23"	350SRC-23-90S	729	366
	26"	27"	350SRC-27-90D	1066	535
	30"	31"	350SRC-31-90D	1196	609
	34"	35"	350SRC-35-90D	1324	662
	38"	39"	350SRC-39-90D	1453	802
	42"	43"	350SRC-43-90D	1583	858
	46"	47"	350SRC-47-90D	1712	948
50"	51"	350SRC-51-90D	1840	1264	

\*4'0" Inside Radius only.

## Spring Balanced / Manual Gate

### Skatewheel & 1 3/8" Roller

**Width** - 12", 15", 18" and 24"

**Length** - 3', 4' and 5' lengths

**Wheels/Rollers** - Steel or aluminum, skatewheels or rollers

**Construction** - 2 1/2" x 1" channels - 12 gauge powder painted steel or .125" aluminum

**Latching** - Safety gate latch

### 1.9" and 2.0" Roller

**Width** - 12 widths (13" to 39" BR)\*

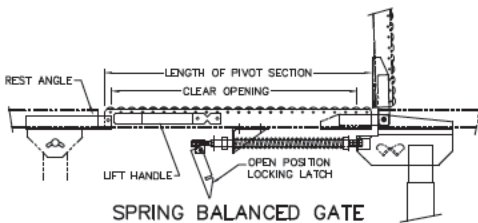
**Length** - 3' and 4' lengths

**Rollers** - 1.9" galvanized or 2.0" unplated rollers

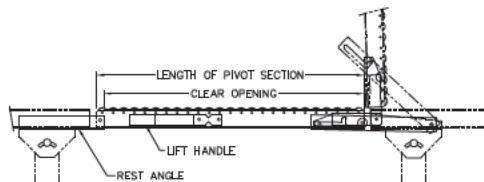
**Construction** - 10 gauge powder painted steel channels - 3 1/2" x 1 1/2" (set high) or 4 1/2" x 1 1/2" (set low)

**Latching** - Safety gate latch

\*NOTE: Maximum width and length determined by roller centers and type of roller. Inquire. Minimum length of spring balanced gate is 3' 0".



SPRING BALANCED GATE



MANUAL GATE



## Multi-Poly Tier Support

**Application** - Use with skate-wheel, 1 3/8", 1.9", 2" and most powered conveyors

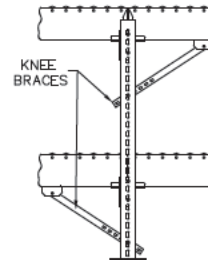
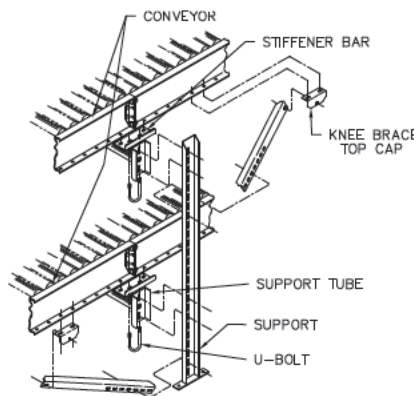
**Widths** - Conveyor widths to 42" wide

**Capacity** - 4,500 pounds capacity per set of uprights, 1,500 pounds per cross supports

**Braces** - Knee braces

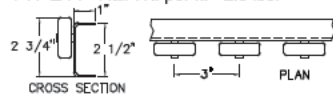
**Height** - 36" to 120" support height in 6" increments

**Versatility** - Infinite adjustability

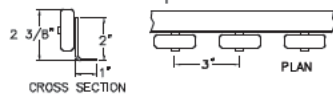


## Wheel Rails

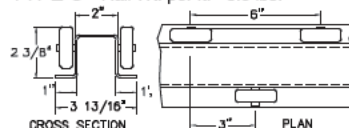
TYPE A - Rail Wt. per ft. - 2.5 lbs.



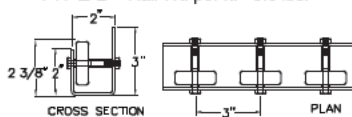
TYPE B - Rail Wt. per ft. - 2.1 lbs



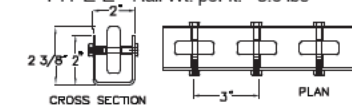
TYPE C - Rail Wt. per ft. - 3.5 lbs.



TYPE D - Rail Wt. per ft. - 3.0 lbs.



TYPE E - Rail Wt. per ft. - 3.5 lbs



### STANDARD SPECIFICATIONS

Frame - 12 Ga. powder painted formed HRS steel.

### Load Capacity Chart

Support Centers	Maximum Load Per Foot (lbs.)				
	Type A	Type B	Type C	Type D	Type E
3'	260*	223	260*	260*	260*
4'	260*	92	233	260*	210
5'	146	50	125	198	113
6'	83	28	71	112	64
7'	51	17	44	69	50
8'	35	12	38	49	27
10'	18	6	15	24	14

\*Wheel Capacity



## Manually Operated Turntable

- Capacity** - 2000 lbs.
- Rollers** - 1.9" or 2.0" diameter spaced on 3" centers
- Adjustment** - Spring-loaded foot pedal to position and lock table at 90° intervals
- Length** - 36" or 48" long
- Elevation** - 8½" minimum elevation



## Ball Transfer Tables

### STANDARD SPECIFICATIONS

**Frames** - 3½" x 1½" x 10 gauge powder painted formed steel channel with powder painted, formed channel ball mounting plates bolted in frame; or 2½" x 1" x 12 gauge powder painted formed steel channel frame with same ball mounting plates (Model BT). Also available in "drop-in" type (Model BTD) that replaces rollers in gravity conveyors. Bolts into existing roller axle holes for easy field mounting.

**Balls** - 1" diameter stud mounted.

**Widths** - From 13" between frames (B/F) and wider in two inch increments up to 27"; also 31", 33", 37" and 39" between frames.

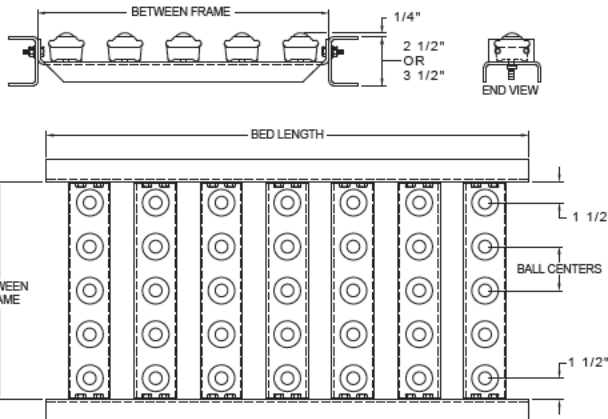
**Lengths** - Available 1 foot to 10 feet.

**Couplings** - Butt type for bolting sections together. Matches gravity conveyor.

**Capacity** - 50 pounds per ball transfer, 1,300 pounds maximum load with supports on 10 feet centers; 3,200 pounds maximum load with supports on 5 feet centers.

### WEIGHTS

B/F Dimension	Ball Centers	Model Number	Wt. per Foot	Model Number	Weight Per Strip
13"	2*	BT-13-2	21	BTD-13-2	10
	3	BT-13-3	12	BTD-13-3	4
	4½	BT-13-4½	10	BTD-13-4½	3
	6	BT-13-6	9	BTD-13-6	2
15"	2*	BT-15-2	24	BTD-15-2	12
	3	BT-15-3	13	BTD-15-3	4.5
	4½	BT-15-4½	12	BTD-15-4½	3.5
	6	BT-15-6	10	BTD-15-6	2.5
17"	2*	BT-17-2	28	BTD-17-2	14
	3	BT-17-3	15	BTD-17-3	5
	4½	BT-17-4½	13	BTD-17-4½	4
	6	BT-17-6	11	BTD-17-6	3
19"	2*	BT-19-2	31	BTD-19-2	16
	3	BT-19-3	16	BTD-19-3	5.5
	4½	BT-19-4½	14	BTD-19-4½	4.5
	6	BT-19-6	12	BTD-19-6	3.5
21"	2*	BT-21-2	35	BTD-21-2	17
	3	BT-21-3	18	BTD-21-3	6
	4½	BT-21-4½	15	BTD-21-4½	5
	6	BT-21-6	12	BTD-21-6	4
23"	2*	BT-23-2	38	BTD-23-2	19
	3	BT-23-3	20	BTD-23-3	6.5
	4½	BT-23-4½	16	BTD-23-4½	5.5
	6	BT-23-6	13	BTD-23-6	4.5
25"	2*	BT-25-2	41	BTD-25-2	21
	3	BT-25-3	21	BTD-25-3	7
	4½	BT-25-4½	18	BTD-25-4½	6
	6	BT-25-6	14	BTD-25-6	5
27"	2*	BT-27-2	45	BTD-27-2	22
	3	BT-27-3	23	BTD-27-3	7.5
	4½	BT-27-4½	19	BTD-27-4½	6.5
	6	BT-27-6	15	BTD-27-6	5.5
31"	2*	BT-31-2	52	BTD-31-2	26
	3	BT-31-3	26	BTD-31-3	8
	4½	BT-31-4½	21	BTD-31-4½	7
	6	BT-31-6	17	BTD-31-6	6
33"	2*	BT-33-2	55	BTD-33-2	27
	3	BT-33-3	29	BTD-33-3	8.5
	4½	BT-33-4½	23	BTD-33-4½	7.5
	6	BT-33-6	19	BTD-33-6	6.5
37"	2*	BT-37-2	62	BTD-37-2	31
	3	BT-37-3	32	BTD-37-3	9.5
	4½	BT-37-4½	25	BTD-37-4½	8.5
	6	BT-37-6	21	BTD-37-6	7.5
39"	2*	BT-39-2	65	BTD-39-2	33
	3	BT-39-3	35	BTD-39-3	11.5
	4½	BT-39-4½	27	BTD-39-4½	10.5
	6	BT-39-6	23	BTD-39-6	9.5



\*With balls on 2" centers, mounting strips have three(3) rows of balls.

## Stationary Supports

**Finish** - Welded and powder painted H.R.S.  
**Height** - Adjustable feet with lagging holes.  
**Capacity** - LD, MD=1,500 lbs., 12 gauge.  
 HD=3,000 lbs., 10 gauge.



HD SUPPORT							
Model Number	251SR 267SR 251CRR 267CRR 251CRRC 267CRRC 251CRR-3	350CRR 350SR	251CAP 267CAP	251CDA 251CDE 267CDA	251ACDA 251ACDE	Weight (lbs.)	"H" Frame Only Height
HD-1*	13 <sup>1</sup> / <sub>4</sub> "-14 <sup>1</sup> / <sub>8</sub> "	15 <sup>1</sup> / <sub>4</sub> "-16 <sup>1</sup> / <sub>8</sub> "	16 <sup>3</sup> / <sub>4</sub> "-17 <sup>1</sup> / <sub>8</sub> "	20 <sup>5</sup> / <sub>8</sub> "-21 <sup>1</sup> / <sub>2</sub> "	13 <sup>3</sup> / <sub>4</sub> "-14 <sup>5</sup> / <sub>8</sub> "	16	9"-9 <sup>7</sup> / <sub>8</sub> "
HD-2*	14 <sup>1</sup> / <sub>8</sub> "-16 <sup>1</sup> / <sub>8</sub> "	16 <sup>1</sup> / <sub>8</sub> "-18 <sup>1</sup> / <sub>8</sub> "	17 <sup>5</sup> / <sub>8</sub> "-19 <sup>5</sup> / <sub>8</sub> "	21 <sup>1</sup> / <sub>2</sub> "-23 <sup>1</sup> / <sub>2</sub> "	14 <sup>5</sup> / <sub>8</sub> "-16 <sup>5</sup> / <sub>8</sub> "	18	9 <sup>7</sup> / <sub>8</sub> "-11 <sup>7</sup> / <sub>8</sub> "
HD-3*	15 <sup>1</sup> / <sub>8</sub> "-18 <sup>1</sup> / <sub>8</sub> "	17 <sup>1</sup> / <sub>8</sub> "-20 <sup>7</sup> / <sub>8</sub> "	18 <sup>5</sup> / <sub>8</sub> "-22 <sup>3</sup> / <sub>8</sub> "	22 <sup>1</sup> / <sub>2</sub> "-26 <sup>1</sup> / <sub>4</sub> "	15 <sup>5</sup> / <sub>8</sub> "-19 <sup>3</sup> / <sub>8</sub> "	19 <sup>1</sup> / <sub>2</sub>	11 <sup>3</sup> / <sub>4</sub> "-14 <sup>5</sup> / <sub>8</sub> "
HD-4*	18 <sup>1</sup> / <sub>4</sub> "-22 <sup>7</sup> / <sub>8</sub> "	20 <sup>1</sup> / <sub>4</sub> "-24 <sup>7</sup> / <sub>8</sub> "	21 <sup>3</sup> / <sub>4</sub> "-26 <sup>3</sup> / <sub>8</sub> "	25 <sup>5</sup> / <sub>8</sub> "-30 <sup>1</sup> / <sub>4</sub> "	18 <sup>3</sup> / <sub>4</sub> "-23 <sup>3</sup> / <sub>8</sub> "	27	14"-18 <sup>5</sup> / <sub>8</sub> "
HD-5*	21 <sup>1</sup> / <sub>4</sub> "-24 <sup>1</sup> / <sub>4</sub> "	23 <sup>3</sup> / <sub>4</sub> "-26 <sup>1</sup> / <sub>4</sub> "	24 <sup>3</sup> / <sub>4</sub> "-27 <sup>3</sup> / <sub>4</sub> "	28 <sup>5</sup> / <sub>8</sub> "-31 <sup>5</sup> / <sub>8</sub> "	21 <sup>3</sup> / <sub>4</sub> "-24 <sup>3</sup> / <sub>4</sub> "	28 <sup>1</sup> / <sub>2</sub>	17"-20"
HD-6*	24 <sup>1</sup> / <sub>4</sub> "-34"	26 <sup>1</sup> / <sub>4</sub> "-36"	27 <sup>3</sup> / <sub>4</sub> "-37 <sup>1</sup> / <sub>2</sub> "	31 <sup>5</sup> / <sub>8</sub> "-41 <sup>3</sup> / <sub>8</sub> "	24 <sup>3</sup> / <sub>4</sub> "-34 <sup>1</sup> / <sub>2</sub> "	31 <sup>1</sup> / <sub>2</sub>	20"-29 <sup>3</sup> / <sub>4</sub> "
HD-7*	30 <sup>1</sup> / <sub>4</sub> "-40"	32 <sup>1</sup> / <sub>4</sub> "-42"	33 <sup>3</sup> / <sub>4</sub> "-43 <sup>1</sup> / <sub>2</sub> "	37 <sup>5</sup> / <sub>8</sub> "-47 <sup>3</sup> / <sub>8</sub> "	30 <sup>3</sup> / <sub>4</sub> "-40 <sup>1</sup> / <sub>2</sub> "	35	26"-35 <sup>3</sup> / <sub>4</sub> "
HD-8*	36 <sup>1</sup> / <sub>4</sub> "-57 <sup>3</sup> / <sub>8</sub> "	38 <sup>1</sup> / <sub>4</sub> "-59 <sup>3</sup> / <sub>8</sub> "	39 <sup>1</sup> / <sub>4</sub> "-60 <sup>7</sup> / <sub>8</sub> "	43 <sup>5</sup> / <sub>8</sub> "-64 <sup>3</sup> / <sub>4</sub> "	36 <sup>3</sup> / <sub>4</sub> "-57 <sup>7</sup> / <sub>8</sub> "	43	32"-53 <sup>1</sup> / <sub>8</sub> "
HD-9*	48 <sup>1</sup> / <sub>4</sub> "-69 <sup>3</sup> / <sub>8</sub> "	50 <sup>1</sup> / <sub>4</sub> "-71 <sup>3</sup> / <sub>8</sub> "	51 <sup>3</sup> / <sub>4</sub> "-72 <sup>1</sup> / <sub>2</sub> "	55 <sup>5</sup> / <sub>8</sub> "-76 <sup>3</sup> / <sub>4</sub> "	48 <sup>3</sup> / <sub>4</sub> "-69 <sup>7</sup> / <sub>8</sub> "	49 <sup>1</sup> / <sub>2</sub>	44"-65 <sup>1</sup> / <sub>8</sub> "
HD-10*	60 <sup>1</sup> / <sub>4</sub> "-81 <sup>3</sup> / <sub>8</sub> "	62 <sup>1</sup> / <sub>4</sub> "-83 <sup>3</sup> / <sub>8</sub> "	63 <sup>3</sup> / <sub>4</sub> "-84 <sup>7</sup> / <sub>8</sub> "	67 <sup>5</sup> / <sub>8</sub> "-88 <sup>3</sup> / <sub>4</sub> "	60 <sup>3</sup> / <sub>4</sub> "-81 <sup>7</sup> / <sub>8</sub> "	56	56"-77 <sup>1</sup> / <sub>8</sub> "
HD-11*	72 <sup>1</sup> / <sub>4</sub> "-93 <sup>3</sup> / <sub>8</sub> "	74 <sup>1</sup> / <sub>4</sub> "-95 <sup>3</sup> / <sub>8</sub> "	75 <sup>3</sup> / <sub>4</sub> "-96 <sup>7</sup> / <sub>8</sub> "	79 <sup>5</sup> / <sub>8</sub> "-100 <sup>3</sup> / <sub>4</sub> "	72 <sup>3</sup> / <sub>4</sub> "-93 <sup>7</sup> / <sub>8</sub> "	62	68"-89 <sup>1</sup> / <sub>8</sub> "
HD-12*	84 <sup>1</sup> / <sub>4</sub> "-105 <sup>3</sup> / <sub>8</sub> "	86 <sup>1</sup> / <sub>4</sub> "-107 <sup>3</sup> / <sub>8</sub> "	87 <sup>3</sup> / <sub>4</sub> "-108 <sup>7</sup> / <sub>8</sub> "	91 <sup>5</sup> / <sub>8</sub> "-112 <sup>3</sup> / <sub>4</sub> "	84 <sup>3</sup> / <sub>4</sub> "-106 <sup>7</sup> / <sub>8</sub> "	68	80"-101 <sup>1</sup> / <sub>8</sub> "

Model Number	LD SUPPORT			Model Number	MD SUPPORT						
	138AR 138SRH 138SR Wheel	Weight (lbs.)	"H" Frame Only Height		LPB TSB	HPB FTC 190RBW SPC	190ABE 190RB 190LS 190CAP 190CLR 190CLRS 190CLRSS 190RBI 190ZPA	190SRH 190SR 20SR 199SR 254SR 22ACDE 22CRR 22CRRC 22CRRCS 22CRRCSS	138CAP 138CLR 138CLRSS 138CLRSS SBT	Weight (lbs.)	"H" Frame Only Height
LD-1	10"-12 <sup>1</sup> / <sub>8</sub> "	8	7 <sup>1</sup> / <sub>4</sub> "-9 <sup>3</sup> / <sub>8</sub> "	MD-1	11 <sup>1</sup> / <sub>2</sub> "-13 <sup>3</sup> / <sub>8</sub> "	14"-16 <sup>1</sup> / <sub>8</sub> "	14 <sup>1</sup> / <sub>2</sub> "-16 <sup>1</sup> / <sub>8</sub> "	11"-13 <sup>1</sup> / <sub>8</sub> "	13"-15 <sup>1</sup> / <sub>8</sub> "	8	7 <sup>1</sup> / <sub>2</sub> "-9 <sup>3</sup> / <sub>8</sub> "
LD-2	12"-13 <sup>1</sup> / <sub>2</sub> "	8 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>4</sub> "-10 <sup>1</sup> / <sub>4</sub> "	MD-2	13 <sup>1</sup> / <sub>2</sub> "-15"	16"-17 <sup>1</sup> / <sub>2</sub> "	16 <sup>1</sup> / <sub>2</sub> "-18"	13"-14 <sup>1</sup> / <sub>2</sub> "	15"-16 <sup>1</sup> / <sub>2</sub> "	8 <sup>1</sup> / <sub>2</sub>	9 <sup>1</sup> / <sub>4</sub> "-10 <sup>1</sup> / <sub>4</sub> "
LD-3	13 <sup>1</sup> / <sub>4</sub> "-16"	11	10 <sup>1</sup> / <sub>2</sub> "-13 <sup>1</sup> / <sub>4</sub> "	MD-3	14 <sup>1</sup> / <sub>4</sub> "-17 <sup>1</sup> / <sub>2</sub> "	17 <sup>1</sup> / <sub>4</sub> "-20"	17 <sup>3</sup> / <sub>4</sub> "-20 <sup>1</sup> / <sub>2</sub> "	14 <sup>1</sup> / <sub>4</sub> "-17"	16 <sup>1</sup> / <sub>4</sub> "-19"	11	10 <sup>1</sup> / <sub>2</sub> "-13 <sup>1</sup> / <sub>4</sub> "
LD-4	15 <sup>1</sup> / <sub>4</sub> "-21"	13 <sup>1</sup> / <sub>2</sub>	13"-18 <sup>1</sup> / <sub>4</sub> "	MD-4	17 <sup>1</sup> / <sub>4</sub> "-22 <sup>1</sup> / <sub>2</sub> "	19 <sup>3</sup> / <sub>4</sub> "-25"	20 <sup>1</sup> / <sub>4</sub> "-25 <sup>1</sup> / <sub>2</sub> "	16 <sup>1</sup> / <sub>4</sub> "-22"	18 <sup>1</sup> / <sub>4</sub> "-24"	13 <sup>1</sup> / <sub>2</sub>	13"-18 <sup>1</sup> / <sub>4</sub> "
LD-5	19 <sup>1</sup> / <sub>4</sub> "-29"	19 <sup>1</sup> / <sub>2</sub>	17"-26 <sup>1</sup> / <sub>4</sub> "	MD-5	21 <sup>1</sup> / <sub>4</sub> "-30 <sup>1</sup> / <sub>2</sub> "	23 <sup>3</sup> / <sub>4</sub> "-33"	24 <sup>1</sup> / <sub>4</sub> "-33 <sup>1</sup> / <sub>2</sub> "	20 <sup>3</sup> / <sub>4</sub> "-30"	22 <sup>1</sup> / <sub>4</sub> "-32"	19 <sup>1</sup> / <sub>2</sub>	17"-26 <sup>1</sup> / <sub>4</sub> "
LD-6	27"-41"	22 <sup>1</sup> / <sub>2</sub>	24 <sup>1</sup> / <sub>4</sub> "-38 <sup>1</sup> / <sub>4</sub> "	MD-6	28 <sup>1</sup> / <sub>2</sub> "-42 <sup>1</sup> / <sub>2</sub> "	31"-45"	31 <sup>1</sup> / <sub>2</sub> "-45 <sup>1</sup> / <sub>2</sub> "	28"-42"	30"-44"	22 <sup>1</sup> / <sub>2</sub>	24 <sup>1</sup> / <sub>4</sub> "-38 <sup>1</sup> / <sub>4</sub> "
LD-7	37"-61"	24	34 <sup>1</sup> / <sub>4</sub> "-58 <sup>1</sup> / <sub>4</sub> "	MD-7	38 <sup>1</sup> / <sub>2</sub> "-62 <sup>1</sup> / <sub>2</sub> "	41"-65"	41 <sup>1</sup> / <sub>2</sub> "-65 <sup>1</sup> / <sub>2</sub> "	38"-62"	40"-64"	24	34 <sup>1</sup> / <sub>4</sub> "-58 <sup>1</sup> / <sub>4</sub> "
LD-8*	49"-72"	26 <sup>1</sup> / <sub>2</sub>	46 <sup>1</sup> / <sub>4</sub> "-69 <sup>1</sup> / <sub>4</sub> "	MD-8*	50 <sup>1</sup> / <sub>2</sub> "-73 <sup>1</sup> / <sub>2</sub> "	53"-76"	53 <sup>1</sup> / <sub>2</sub> "-76 <sup>1</sup> / <sub>2</sub> "	50"-73"	52"-75"	26 <sup>1</sup> / <sub>2</sub>	46 <sup>1</sup> / <sub>4</sub> "-69 <sup>1</sup> / <sub>4</sub> "
LD-9*	61"-84"	29 <sup>1</sup> / <sub>2</sub>	58 <sup>1</sup> / <sub>4</sub> "-81 <sup>1</sup> / <sub>4</sub> "	MD-9*	62 <sup>1</sup> / <sub>2</sub> "-85 <sup>1</sup> / <sub>2</sub> "	65"-88"	65 <sup>1</sup> / <sub>2</sub> "-88 <sup>1</sup> / <sub>2</sub> "	62"-85"	64"-87"	29 <sup>1</sup> / <sub>2</sub>	58 <sup>1</sup> / <sub>4</sub> "-81 <sup>1</sup> / <sub>4</sub> "
LD-10*	73"-96"	35 <sup>1</sup> / <sub>2</sub>	70 <sup>1</sup> / <sub>4</sub> "-93 <sup>1</sup> / <sub>4</sub> "	MD-10*	74 <sup>1</sup> / <sub>2</sub> "-97 <sup>1</sup> / <sub>2</sub> "	77"-100"	77 <sup>1</sup> / <sub>2</sub> "-100 <sup>1</sup> / <sub>2</sub> "	74"-97"	76"-99"	35 <sup>1</sup> / <sub>2</sub>	70 <sup>1</sup> / <sub>4</sub> "-93 <sup>1</sup> / <sub>4</sub> "
LD-11*	83"-106"	39 <sup>1</sup> / <sub>2</sub>	80 <sup>1</sup> / <sub>4</sub> "-103 <sup>1</sup> / <sub>4</sub> "	MD-11*	84 <sup>1</sup> / <sub>2</sub> "-107 <sup>1</sup> / <sub>2</sub> "	87"-110"	87 <sup>1</sup> / <sub>2</sub> "-110 <sup>1</sup> / <sub>2</sub> "	84"-107"	86"-109"	39 <sup>1</sup> / <sub>2</sub>	80 <sup>1</sup> / <sub>4</sub> "-103 <sup>1</sup> / <sub>4</sub> "
LD-12*	95"-118"	42	92 <sup>1</sup> / <sub>4</sub> "-115 <sup>1</sup> / <sub>4</sub> "	MD-12*	96 <sup>1</sup> / <sub>2</sub> "-119 <sup>1</sup> / <sub>2</sub> "	99"-122"	99 <sup>1</sup> / <sub>2</sub> "-122 <sup>1</sup> / <sub>2</sub> "	96"-119"	98"-121"	42	92 <sup>1</sup> / <sub>4</sub> "-115 <sup>1</sup> / <sub>4</sub> "

\*(1) Pair knee braces included with each support.

## Ceiling Hangers

**Size** - 1/2" diameter x 8' long threaded galvanized rods.  
**Sturdy** - 1 1/2" diameter crosspipe mounts to underside of bed section.

Ceiling hangers provide an economical and safe means of utilizing valuable floor space when higher conveyor elevations are required. 1/2" diameter x 8' long galvanized all thread rods (with locking nuts) attach to 1 1/2" diameter standard pipe which bolts to underside of conveyor frame with pipe collars. Ceiling hangers can be used with gravity or powered conveyors. Also, guard rails are required on ceiling hung conveyors.





## Tripod Supports



- For portable applications
- Easily adjusted with locking "L" rod
- Heavy steel pipe construction
- Capacity - 350 lbs.

Model No.	Width	Height		Weight (lbs.)	Model No.	Width	Height		Weight (lbs.)
		Min.	Max.				Min.	Max.	
T-12-18	12"	12"	18"	6	T-18-18	18"	12"	18"	8
T-12-30	12"	18"	30"	9	T-18-30	18"	18"	30"	10
T-12-40	12"	24"	40"	11	T-18-40	18"	24"	40"	12
T-12-52	12"	30"	52"	14	T-18-52	18"	30"	52"	15
T-12-72	12"	40"	72"	20	T-18-72	18"	40"	72"	21
T-15-18	15"	12"	18"	7	T-18-110	18"	60"	110"	25
T-15-30	15"	18"	30"	10	T-24-18	24"	12"	18"	9
T-15-40	15"	24"	40"	12	T-24-30	24"	18"	30"	11
T-15-52	15"	30"	52"	15	T-24-40	24"	24"	40"	13
T-15-72	15"	40"	72"	21	T-24-52	24"	30"	52"	16
T-15-110	15"	60"	110"	25	T-24-72	24"	40"	72"	22
					T-24-110	24"	60"	110"	26

Adjustable Tripod Supports are used with straight or curved sections of gravity skatewheel and 1<sup>3</sup>/<sub>8</sub>" diameter roller conveyor only.

## Portable Castered Support

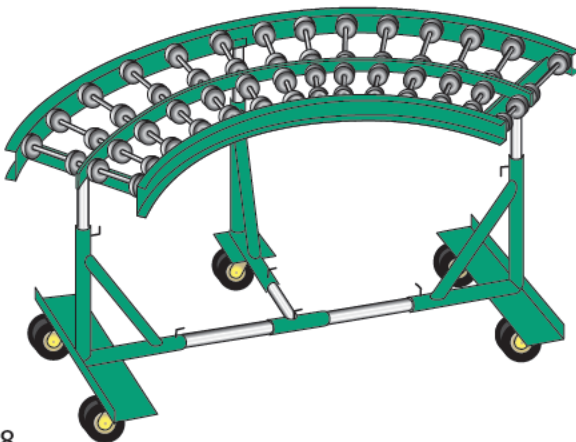


**Portable Castered Support** allows straight sections of gravity skatewheel or 1<sup>3</sup>/<sub>8</sub>" diameter roller conveyor to be easily moved from one area to another. 4" diameter hard rubber swivel casters with brake.

NOTE: Floor locks optional.

12" Wide	15" Wide	18" Wide	24" Wide	Height to top of Conveyor	Weight (lbs.)
PSC-12-28	PSC-15-28	PSC-18-28	PSC-24-28	18" - 28"	53
PSC-12-40	PSC-15-40	PSC-18-40	PSC-24-40	24" - 40"	55
PSC-12-52	PSC-15-52	PSC-18-52	PSC-24-52	30" - 52"	57
PSC-12-72	PSC-15-72	PSC-18-72	PSC-24-72	40" - 72"	62

## Portable Castered Curve Support



**Portable Castered Curve Support** allows curved sections of gravity skatewheel or 1<sup>3</sup>/<sub>8</sub>" roller curves to be easily moved. 4" diameter hard rubber swivel casters with brake.

NOTE: Floor locks optional.

12" Wide	15" Wide	18" Wide	24" Wide	Height to top of Conveyor	Weight (lbs.)
PSCC-12-28	PSCC-15-28	PSCC-18-28	PSCC-24-28	18" - 28"	75
PSCC-12-40	PSCC-15-40	PSCC-18-40	PSCC-24-40	24" - 40"	77
PSCC-12-52	PSCC-15-52	PSCC-18-52	PSCC-24-52	30" - 52"	79
PSCC-12-72	PSCC-15-72	PSCC-18-72	PSCC-24-72	40" - 72"	84

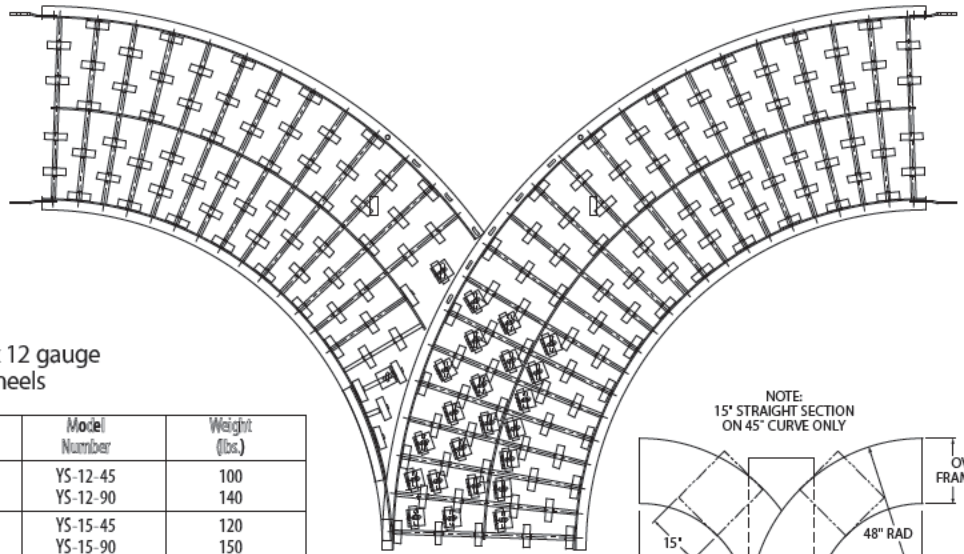
# Skatewheel Switches



## Skatewheel "Y" Switch

- 4 widths
- Manually operated
- 45° and 90° curves available
- Sturdy construction - 2½" x 1" x 12 gauge powder painted frames - steel wheels

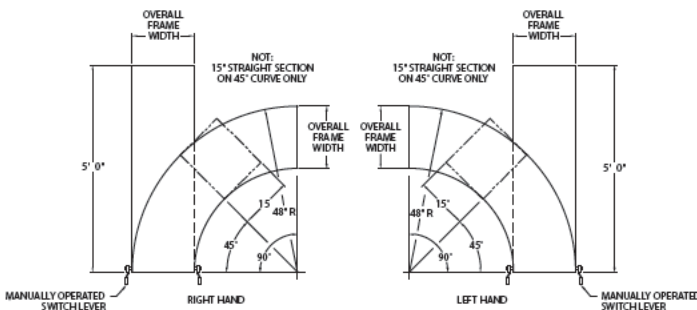
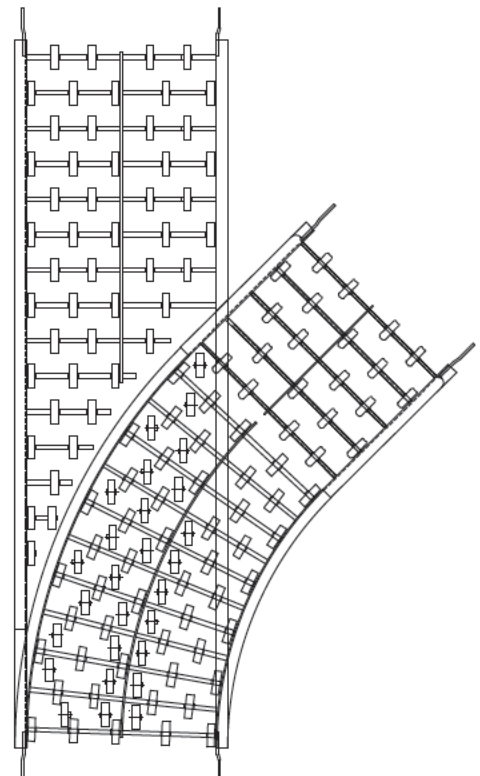
"R"	Overall Width	Degree	Model Number	Weight (lbs.)
4'0"	12"	45°	YS-12-45	100
		90°	YS-12-90	140
	15"	45°	YS-15-45	120
		90°	YS-15-90	150
	18"	45°	YS-18-45	130
		90°	YS-18-90	165
	24"	45°	YS-24-45	145
		90°	YS-24-90	180

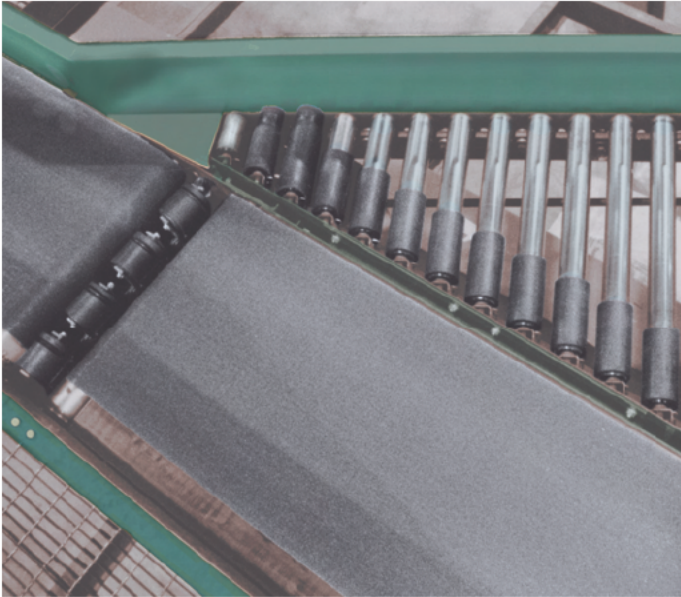


## Skatewheel Spur Curve Switch

- 4 widths
- Manually operated
- 45° and 90° curves available
- Sturdy construction - 2½" x 1" x 12 gauge powder painted frames - steel wheels
- Right and left hand units

"R"	Overall Width	Degree	Model Number	Weight (lbs.)
4'0"	12"	45°	CS-12-45-Ror L	145
		90°	CS-12-90-Ror L	160
	15"	45°	CS-15-45-Ror L	155
		90°	CS-15-90-Ror L	170
	18"	45°	CS-18-45-Ror L	170
		90°	CS-18-90-Ror L	190
	24"	45°	CS-24-45-Ror L	195
		90°	CS-24-90-Ror L	210





### LOOK AT THE FEATURES AND CAPABILITIES OF THIS CONVEYOR:

#### FACTS ABOUT THE SORTER

There is virtually no limit to the length of the sorter. Units up to 500 feet long with as many as 30 diverters have been successfully built and installed. By using multiple "helper drives," the sort system becomes very flexible and can meet most user requirements. It can either sort "left" or "right" or it can be designed to sort both "left" and "right" (both sides). Recommended conveyor speeds are 200 FPM minimum to 300 FPM maximum. At 300 FPM, 16" long packages can be sorted at a rate of 80 per minute.

#### MINIMAL PRODUCT LIMITATIONS

Package weights can range from a minimum of 3 pounds up to a maximum of 100 pounds. Package weight distribution (center of gravity) is more critical to a successful divert than the total weight of the product. Package sizes can be as short as 10" up to a maximum length of 72". Maximum product length is determined by the divert spur width and the divert spur radius. Minimum gap between products is 9", depending upon the response time of the sortation control system.

#### ABOUT THE DIVERTER

The diverter is modular in design and can be installed at desired intervals as close as 3 feet centers minimum, up to any desired spacing. It utilizes a 3" long driven urethane coated roller, that on demand, rises 1/4"

to 3/8" and skews 30 degrees to divert the package. When in the down position, these rollers act as a bridge to stabilize small packages. Required air pressure is 40 PSI minimum, to 60 PSI maximum.

#### BELT TAKE-UP

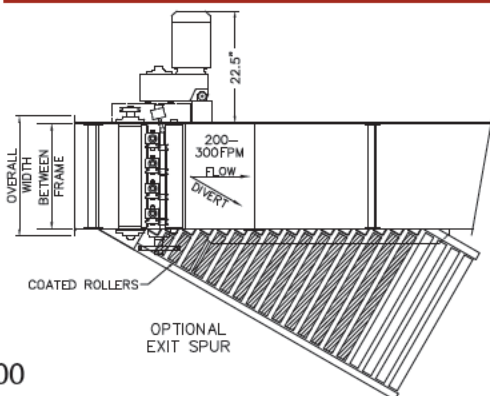
A mechanical (screw type) take-up is supplied when no more than two diverters are required. With three or more diverters, an air take-up is supplied to automatically maintain proper belt tension.

#### INDUCTION SYSTEM

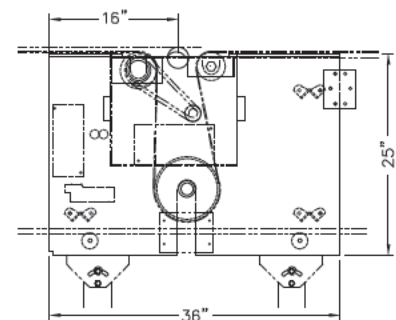
Although it's not necessarily a part of the sortation conveyor, the induction conveyor plays a key roll in the success of the diverting system. ACSI can supply the right equipment to ensure products are merged properly to traverse the sortation line.

#### HORSEPOWER REQUIREMENTS

In determining horsepower, product live load and diverter horsepower requirements are the deciding factors. Each diverter requires 1/2 HP.



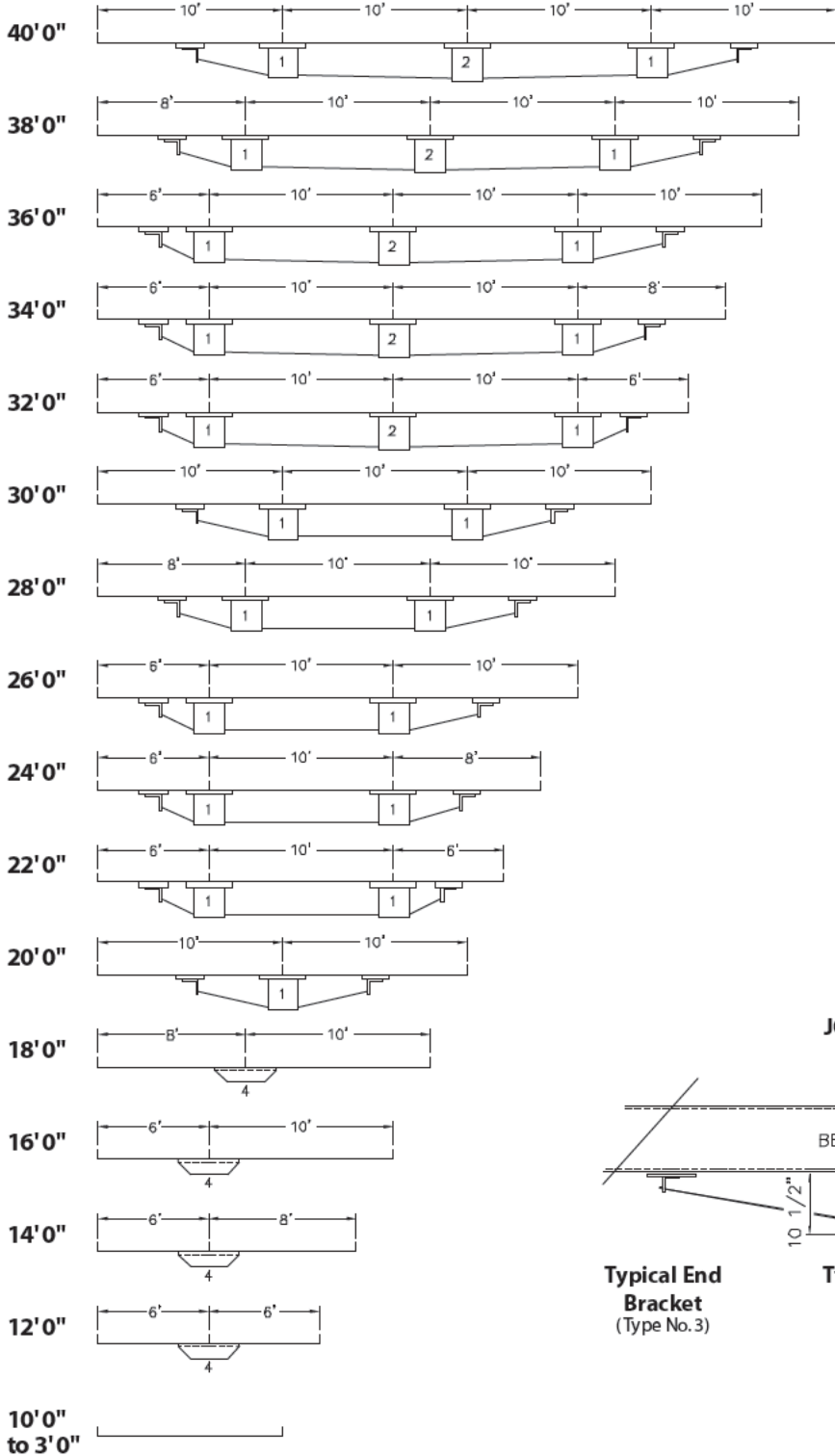
- Standard belt widths: 15", 21", 27", 33" and 39"
- Spur discharge conveyor with urethane covered rollers is slave driven by sorter
- Maximum motor: 5 HP for every 6 sorts
- Gentle sort based on dynamics of design
- Standard sort module is 36" OAL
- Alignment rollers at induction end
- All pulleys are machine crowned
- All rollers have precision bearings



# Bed & Undertrussing Chart



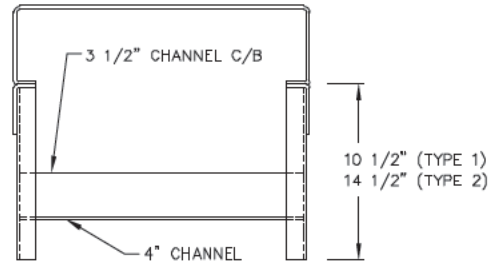
## BED LENGTH



## ROD SIZES

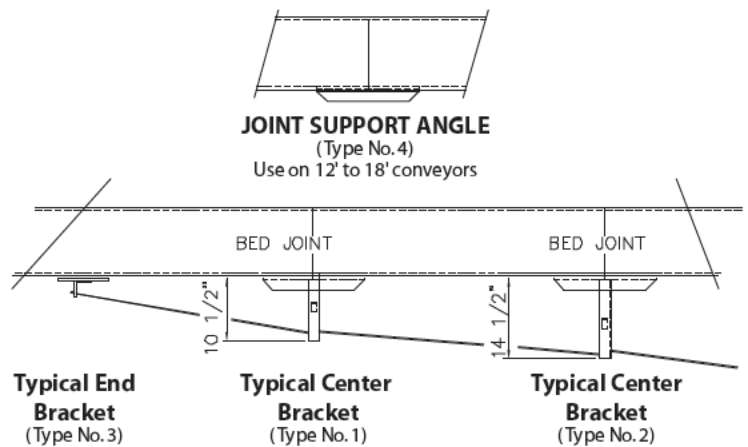
- Type "A" - 50" long -  $\frac{5}{8}$ " diameter
- Type "B" - 62" long -  $\frac{5}{8}$ " diameter
- Type "C" - 119" long -  $\frac{5}{8}$ " diameter

**NOTE:** For center drive use Type No.2 Center Bracket on both sides of drive.



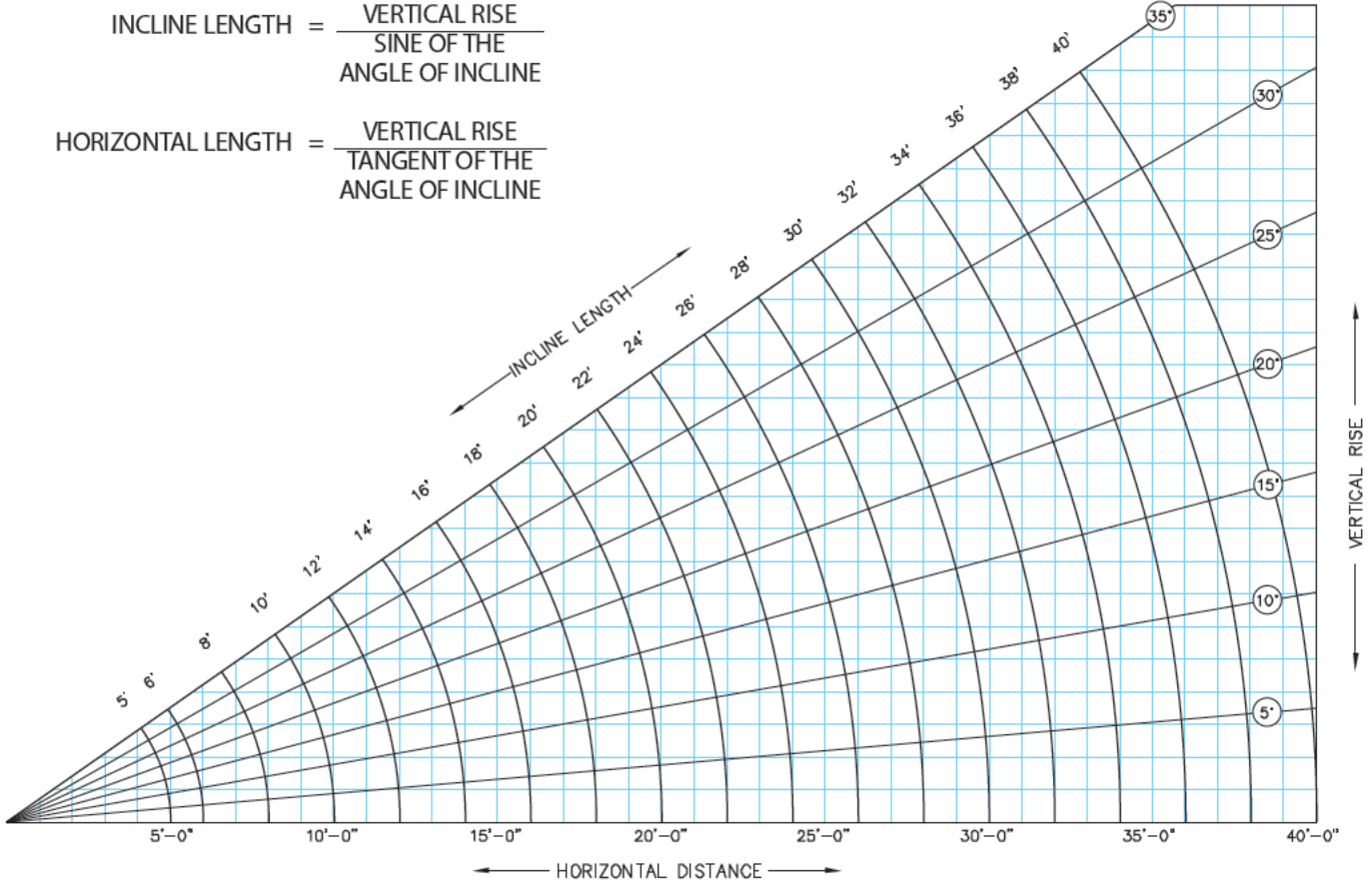
## JOINT SUPPORT ANGLE

(Type No.4)  
Use on 12' to 18' conveyors



$$\text{INCLINE LENGTH} = \frac{\text{VERTICAL RISE}}{\text{SINE OF THE ANGLE OF INCLINE}}$$

$$\text{HORIZONTAL LENGTH} = \frac{\text{VERTICAL RISE}}{\text{TANGENT OF THE ANGLE OF INCLINE}}$$



Angle	Sine	Tangent	Angle	Sine	Tangent	Angle	Sine	Tangent
1°	.02	.02	11°	.19	.20	21°	.36	.38
2°	.03	.03	12°	.21	.21	22°	.37	.40
3°	.05	.05	13°	.23	.23	23°	.39	.42
4°	.07	.07	14°	.24	.25	24°	.41	.45
5°	.09	.09	15°	.26	.27	25°	.42	.47
6°	.10	.11	16°	.28	.29	26°	.44	.49
7°	.12	.12	17°	.29	.31	27°	.45	.51
8°	.14	.14	18°	.31	.32	28°	.47	.53
9°	.16	.16	19°	.33	.34	29°	.48	.55
10°	.17	.17	20°	.34	.36	30°	.50	.58

## BELT PULL AND HORSEPOWER CALCULATIONS

### I. LIVE LOAD ON THE CONVEYOR:

- A. Horizontal Conveyor: Summation of total load being conveyed.
- B. Incline Conveyor: Live load on incline portion multiplied by the sine of the angle of incline. (See "Net Lift Chart").

### II. BELT OR CHAIN WEIGHT:

- A. Belt Driven Conveyor: Belt weight from chart below multiplied by the width of the belt multiplied by the length of the conveyor for the weight of both the carrying belt and the return belt.

Type of Belt	Weight per Lineal Foot of Conveyor per Inch of Belt Width
3 Ply FS x FS	.1 Pound
3 Ply Ruff Top	.25 Pounds
3 Ply Neoprene	.125 Pounds

- B. Chain Driven Conveyor: Chain weight from chart below multiplied by conveyor length.

Conveyor Model	Chain Type	Weight per Lineal Foot of Conveyor
22CRR	#50	1.38 Pounds
251-267CRR	#50	3.0 Pounds
251-267CRR	#60	3.52 Pounds
Slat Conveyor	SR196	26.4 Pounds

- III. A. **Roller Weight:** See Chart below
- B. **Slat Weight:** 1.95 pounds per lineal foot of conveyor per inch of slat width.

### IV. ADDITIONAL FACTORS:

- A. Feeder Beds: 10% of the live load on the feeder bed.
- B. Stopped product on running conveyor (case stop, traffic controller, etc.): 10% of the stopped product.
- C. Deflectors and Plows: 33% of the heaviest unit load.

### V. COEFFICIENT OF FRICTION:

Slider Bed	.30
Belt on Roller	.05
Belt Driven Live Roller	.10
Chain Driven Live Roller	.075
Slat Conveyor	.15

Belt Pull Calculation: Summation of items I thru IV multiplied by item V.

$$\text{Belt Pull} = [(1A + II + III + IV) \times V] + 1B$$

### VI. EFFECTIVE BELT PULL:

Belt pull from item V multiplied by 1.25 equals effective belt pull.

### VII. DRIVETRAIN EFFICIENCY FACTORS:

- A. Gear Reduction: 100 minus one half of the ratio of each step of reduction.

*Example:* Single Reduction 30:1 Reduction  
 $100 - 30/2 = 85\%$  efficient.

Double Reduction 800:1 Reduction  
 $100 - 40/2 - 20/2 = 70\%$  efficient.

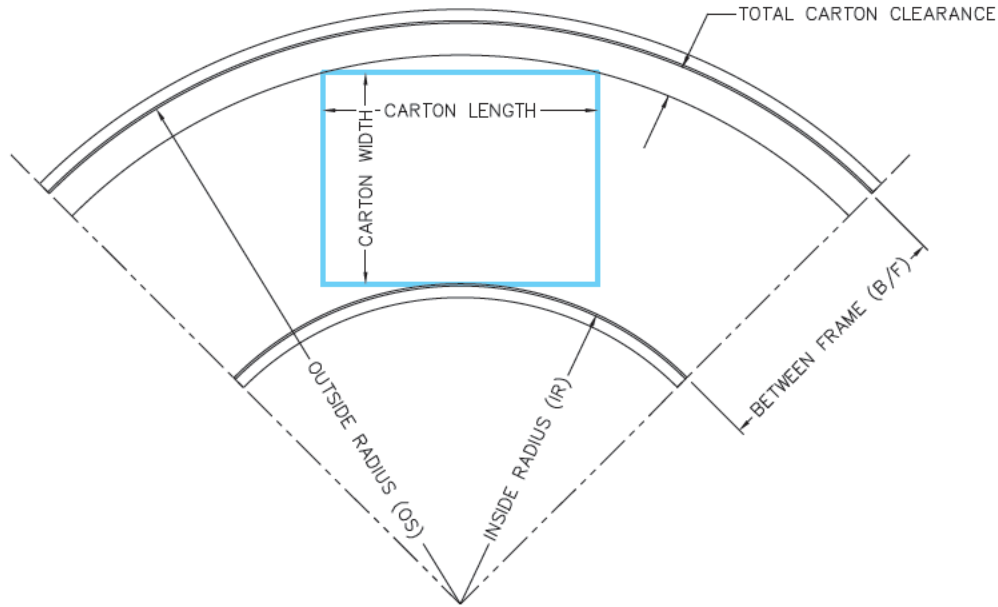
- B. Chain Reduction: 95% efficient.

Horsepower Calculation: Effective belt pull times speed in feet per minute divided by 33,000 divided by the gear reduction efficiency factor divided by the chain reduction efficiency factor.

$$\text{Horsepower} = \frac{\text{Effective Belt Pull} \times \text{Speed in F.P.M.}}{33,000 \times (\text{VII.A}) \times .95}$$

## ROLLER WEIGHT CHART

ROLLER DESCRIPTION			WEIGHT PER BETWEEN FRAME DIMENSION								
Cat. No.	Diameter	Gage	11"	15"	19"	21"	23"	27"	31"	33"	39"
190SR	1.9	16	2.2	2.7	3.3	3.6	3.8	4.4	4.9	5.2	6.1
20SR	2.0	12	3.4	4.5	5.6	6.1	6.6	7.7	8.8	9.4	11.0
199SR	1.9	9	3.4	4.5	5.6	6.1	6.6	7.7	8.8	9.4	11.0
254SR	2.5	14	3.0	3.9	4.8	5.3	5.7	6.6	7.5	8.0	9.3
251SR	2.5	11	5.6	7.1	8.5	8.9	9.3	11.5	12.9	13.6	15.7
267SR	2.63	7	6.7	8.7	10.8	11.8	12.8	14.9	16.9	17.9	21.0
350SR	3.5	.30"	14.9	19.6	24.3	26.7	29.0	33.7	38.4	40.8	47.8



## CURVE SIZING FORMULA AND CHART

Use of the Pythagorean Theorem to determine the between frame (BF) dimension of curved conveyor sections relative to carton size:

$$BF = \sqrt{\left[\frac{\text{carton length}}{2}\right]^2 + [\text{carton width} + \text{inside radius}]^2} + \text{carton clearance} - \text{inside radius}$$

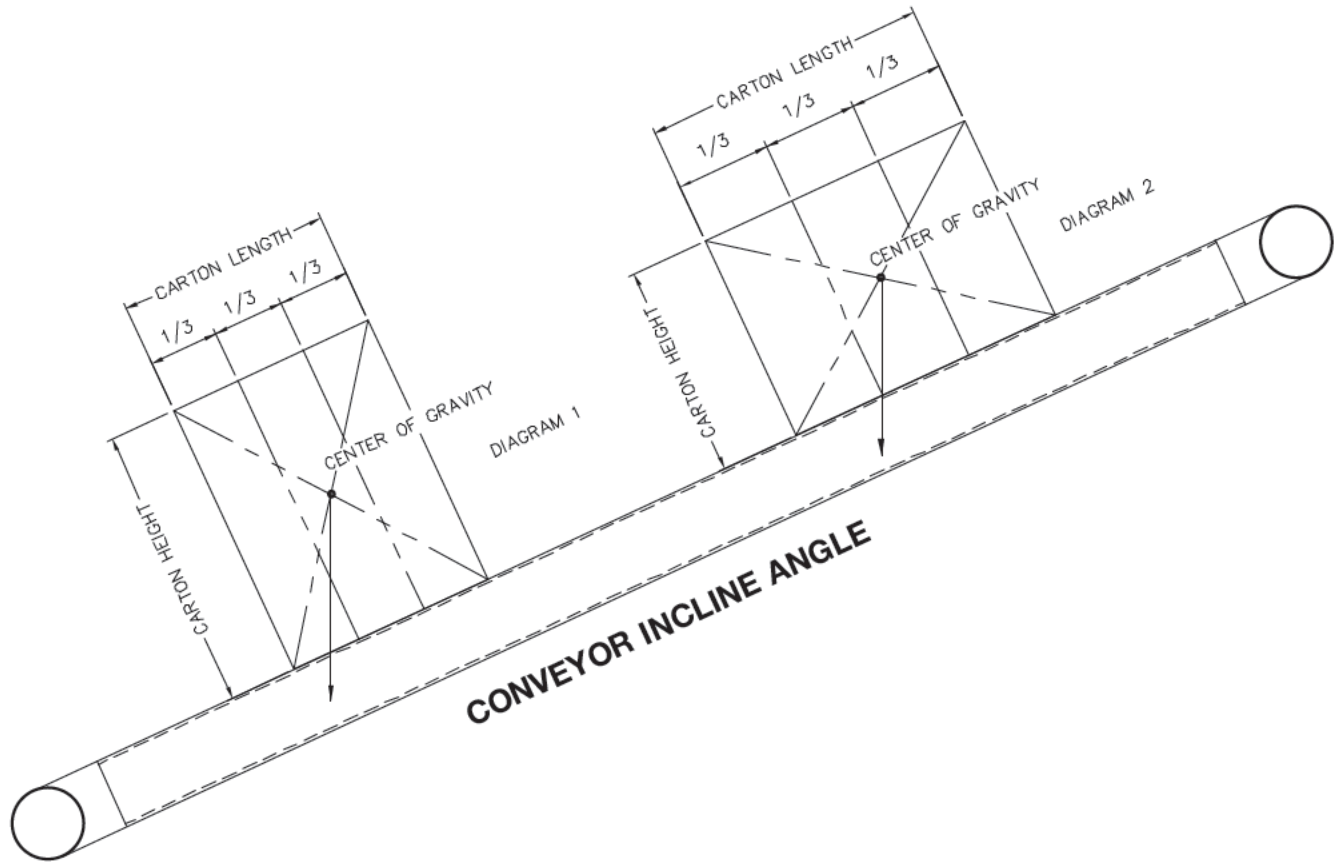
**BF REQUIRED FOR CURVES HAVING 2'8½" RADIUS & SMALLER**

Package Length	Package Width											
	4"	8"	12"	16"	20"	24"	28"	32"	36"	40"	44"	48"
4"	6	10	14	18	22	26	30	34	38	42	46	50
8"	6	10	14	18	22	26	30	34	38	42	46	50
12"	6	10	14	18	22	26	30	34	38	42	46	50
16"	7	11	15	19	22	26	30	34	38	42	46	50
20"	8	12	15	19	23	27	31	35	38	42	46	50
24"	9	12	16	20	23	27	31	35	39	43	47	51
28"	10	13	17	20	24	28	32	36	39	43	47	51
32"	11	14	18	21	25	29	32	36	40	44	48	51

**BF REQUIRED FOR CURVES HAVING 3'7¾" RADIUS & LARGER**

Package Length	Package Width											
	4"	8"	12"	16"	20"	24"	28"	32"	36"	40"	44"	48"
4"	6	10	14	18	22	26	30	34	38	42	46	50
8"	6	10	14	18	22	26	30	34	38	42	46	50
12"	6	10	14	18	22	26	30	34	38	42	46	50
16"	6	10	14	18	22	26	30	34	38	42	46	50
20"	7	10	14	18	22	26	30	34	38	42	46	50
24"	7	11	15	19	23	27	31	34	38	42	46	50
28"	8	11	15	19	23	27	31	35	39	43	47	51
32"	8	12	16	20	24	27	31	35	39	43	47	51
36"	9	13	16	20	24	28	32	36	40	43	47	51
40"	10	13	17	21	25	28	32	36	40	44	48	52
44"	10	14	18	22	25	29	33	37	41	44	48	52
48"	11	15	19	22	26	30	33	37	41	45	49	53
52"	12	16	19	23	27	30	34	38	42	46	49	53
56"	13	17	20	24	27	31	35	39	42	46	50	54
60"	14	18	21	25	28	32	36	39	43	47	51	54
64"	15	19	22	26	29	33	36	40	44	47	51	55

# Box Tumbling Diagram



## DETERMINING FACTORS ON BOX TUMBLING:

1. Draw conveyor angle of incline.
2. Draw box size on conveyor.
3. Draw diagonal lines to find center of box.
4. Divide lower portion of box into thirds.
5. Draw vertical line as shown
6. If vertical line falls within the lower third (See Diagram #1) the box may tumble depending on weight distribution.
7. If vertical line falls within the upper two thirds (See Diagram #2) the box will not tumble.

General guideline rate of fall chart for flow on gravity roller conveyor. Exact rate of fall should be determined at time of installation with actual product to be conveyed.

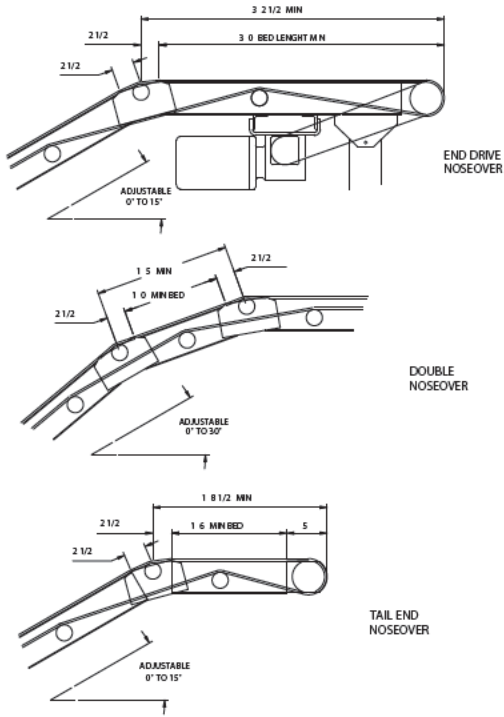
**GRAVITY ROLLER RATE OF FALL CHART**

Product with Conveyable Underside Surface	Weight Range in Pounds	Fall in 10'0"
Cartons	1 to 5	8" to 9"
Cartons	5 to 15	7" to 8"
Cartons	15 to 50	6" to 7"
Cartons	50 to 75	5" to 6"
Wood Boxes	20 to 50	5" to 6"
Wood Boxes	50 to 150	4" to 5"
Wood Boxes	150 to 200	3" to 4"
Steel Tote Bins	15 to 50	3" to 4"

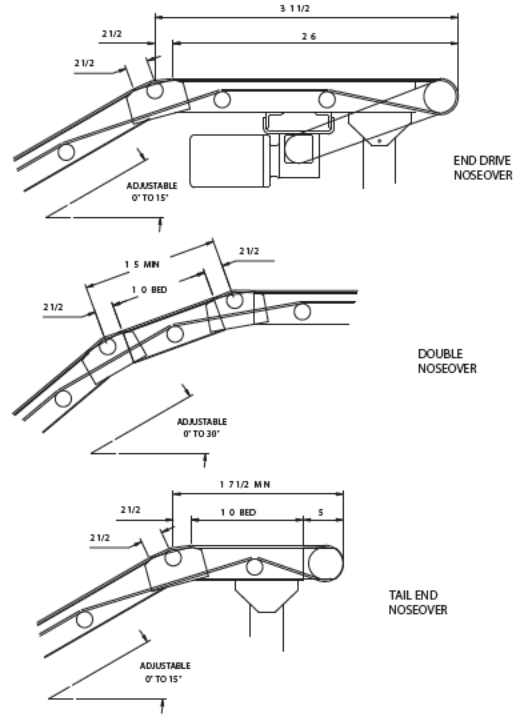


# Noseover Arrangements

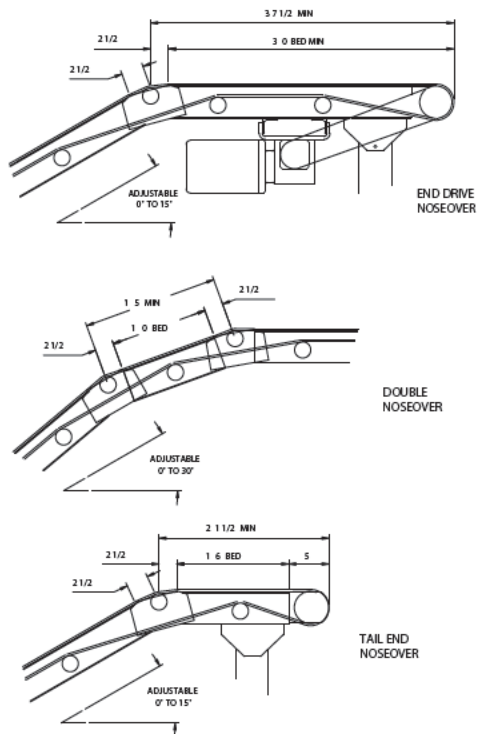
## 190RB NOSEOVER



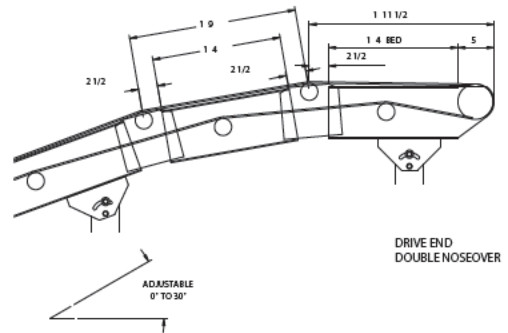
## LPB NOSEOVER



## TSB NOSEOVER



## FTC & HPB NOSEOVER



# Application Data Sheet



## OPERATIONAL DATA

PO# \_\_\_\_\_

**Environment:**     Normal     Dirty/Dusty  
 Washdown     Oily  
 Clean Room Class  
 Other

**Hours of Operation:**  
Hrs./Day \_\_\_\_\_ Days/Week \_\_\_\_\_

**Average Rate:**    per Minute: \_\_\_\_\_  
per Hour: \_\_\_\_\_

**Maximum Rate:**    per Minute: \_\_\_\_\_  
per Hour: \_\_\_\_\_

**Conveyor Speed:** \_\_\_\_\_ FPM  
 Constant     Variable speed  
 Reversing

**Total live load on conveyor:**    lbs.: \_\_\_\_\_  
or lbs./ft: \_\_\_\_\_

**Electric Motor Voltage & Enclosure:**  
Volts/Ph/Cycles: \_\_\_\_\_  
 TEFC     Washdown     DC  
 Inverter Duty     EX.PR.

**Control Operating Voltage:**  
 AC     DC    Volts: \_\_\_\_\_

**Control Class of Service:**     Gen Purpose NEMA1  
 Other: \_\_\_\_\_

**Special Brand Equipment:**  
(Customer Specification - No Substitutes)

<input type="checkbox"/> Motors	_____	Describe
<input type="checkbox"/> Reducers	_____	
<input type="checkbox"/> Solenoids	_____	
<input type="checkbox"/> Bearings	_____	
<input type="checkbox"/> Belt	_____	
<input type="checkbox"/> Paint	_____	
<input type="checkbox"/> Other	_____	

**Plant Air Available**     No     Yes    \_\_\_\_\_ PSI

Date: \_\_\_\_\_

Distributor: \_\_\_\_\_  
Salesman: \_\_\_\_\_  
Phone: \_\_\_\_\_

## PRODUCT INFORMATION

**Product to be Conveyed:**     Box     Pallet     Drum  
 Wire Basket  
 Other

**Product Size:**    Min    Max    Avg  
Length: \_\_\_\_\_  
Width: \_\_\_\_\_  
Height: \_\_\_\_\_  
Weight: \_\_\_\_\_

**Description of Product:**  
**Product Bottom:**     Smooth     Hard     Firm  
 Soft     Flat     Solid     Picture frame  
 Slats     Wood     Corrugated     Metal  
 Plastic  
 Other:

**Product Sides:**     Vertical     Tapered  
 Lip at top (Protrusions) (Supply sketch)

**Product Orientation In Direction of Travel:**  
 Length     Width

## ENGINEERING INFORMATION

Are layout drawings available?     Yes     No  
Are they being provided to ACSI?     Yes     No  
Are **Approval Drawings** required?     Yes     No  
Is product testing required?     Yes     No  
If so, is customer supplying test product?     Yes     No

**Testing Requirements:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Special Notes:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# ACSI Order Entry Form

To avoid delays and changes when processing your order, this order form should be filled out completely.

Distributor Name: \_\_\_\_\_ Ship to: \_\_\_\_\_  
 P.O. Number: \_\_\_\_\_  
 Conveyor Mark: \_\_\_\_\_ Routing: \_\_\_\_\_  
 ACSI Quote #: \_\_\_\_\_  
 Today's Date: \_\_\_\_\_ Collect  Prepaid  UPS  Third Party

Qty.	Model	Length (OAL)	BF	C/S	OAW	Roller Ctrs.	Belt Width/Type	Speed FPM	Base Price
<b>Motor</b> _____ <b>HP</b> _____ / _____ / _____ <b>TE</b> _____ <b>INV. DUTY</b> _____ <b>EXPR</b> _____									
<b>Elevation:</b> Infeed _____ Discharge _____ Casters _____ Knee Braces _____									
<b>Drive Type:</b> <input type="checkbox"/> Center <input type="checkbox"/> End <input type="checkbox"/> Overhead <input type="checkbox"/> Side Mount <input type="checkbox"/> Floor Mount <input type="checkbox"/> Timing Belt Drive <input type="checkbox"/> Chain Drive									
<b>Drive Pulley:</b> <input type="checkbox"/> 4" Diameter <input type="checkbox"/> 6" Diameter <input type="checkbox"/> 8" Diameter <input type="checkbox"/> 12" Diameter									
<b>Tail Pulley:</b> <input type="checkbox"/> 4" Diameter <input type="checkbox"/> 6" Diameter <input type="checkbox"/> 8" Diameter									
<b>Drive Shaft:</b> <input type="checkbox"/> 1 3/16" Diameter <input type="checkbox"/> 1 7/16" Diameter <input type="checkbox"/> 1 15/16" Diameter									
<b>Tail Shaft:</b> <input type="checkbox"/> 1 3/16" Diameter <input type="checkbox"/> 1 7/16" Diameter <input type="checkbox"/> 1 15/16" Diameter									
<b>Guard Rails:</b> <input type="checkbox"/> Adj. Channel <input type="checkbox"/> One Side <input type="checkbox"/> For Bed Length Only <input type="checkbox"/> Solid Type <input type="checkbox"/> Both Sides <input type="checkbox"/> To Extend Over Pulleys <input type="checkbox"/> Channel Type <input type="checkbox"/> Angle Height of Non-Adj. Guard Rail: _____									
<b>Feeder:</b> <input type="checkbox"/> Integral <input type="checkbox"/> Chain Feeder Length _____ Elevations _____									
<input type="checkbox"/> <b>Double Noseover</b> <input type="checkbox"/> <b>Single Noseover</b> <input type="checkbox"/> <b>Located as standard</b> Other Location: _____									
<b>Motor Starters:</b> <input type="checkbox"/> Manual (Start/Stop Only) <input type="checkbox"/> Mounted/Wired <input type="checkbox"/> One Direction (Magnetic) <input type="checkbox"/> Not Mounted/Wired <input type="checkbox"/> Reversing (Magnetic) Motor Voltage: _____ Control Operating Voltage: _____									
<b>Push Buttons:</b> (For Magnetic Starters) <input type="checkbox"/> Start/Stop <input type="checkbox"/> Up/Down/Stop <input type="checkbox"/> For/Rev/Stop									
<b>Paint (standard powder coat colors):</b> <input type="checkbox"/> ACSI Green <input type="checkbox"/> ACSI Gray <input type="checkbox"/> ACSI White <input type="checkbox"/> ACSI Dark Blue <input type="checkbox"/> ACSI Tan <input type="checkbox"/> ACSI Black <b>Special Paint:</b> _____									

## Warranty

Automated Conveyor Systems, Inc., warrants its products to be free of defects in materials and workmanship for a period of one year from the date of shipment or 2080 operating hours, whichever occurs first.

ACSI, will repair or replace, at ACSI's option, F.O.B. West Memphis, AR, any part proving defective according to the terms of this warranty. ACSI must be notified in writing of the claimed defect, including a description of the part, a description of the defect and date defect was discovered. ACSI reserves the right to inspect said defect at purchaser's installation site or to have said defective part or parts returned to ACSI via commercial freight carrier for inspection. Installation expense and any other expense associated with the removal of claimed defective part shall be borne by purchaser and ACSI's liability is extended only to furnishing said part or parts.

ACSI is not liable for incidental or consequential damages, such as loss of profit, delays or expenses incurred by failure of said part or parts or for failure of equipment to comply with any federal, state, or local laws.

Failure due to abuse, negligence, accident, improper repair, improper maintenance, incorrect adjustments, exposure to a corrosive or abrasive environment, operation under any degree of moisture or alteration/modification to the equipment without ACSI's written authorization, does not constitute failure due to defects in workmanship or materials.

Component parts not manufactured by ACSI (i.e.: motors, gear reducers, etc.) will be repaired or replaced at the option of the manufacturer. Contact the nearest authorized service center for those warranty claims. The warranty as specifically set forth here-in shall be purchaser's exclusive warranty and is hereby provided by ACSI in lieu of any and all other warranties, actual or implied.

NOTE: ANY COMPONENT PART (OR PARTS) NOT MANUFACTURED BY ACSI THAT HAS (HAVE) BEEN TAMPERED WITH PRIOR TO INSPECTION BY THE MANUFACTURER'S AUTHORIZED REPRESENTATIVE, SHALL BE DEEMED FREE OF ALL WARRANTY CLAIMS.

**AUTOMATED CONVEYOR SYSTEMS, INC.  
WEST MEMPHIS, ARKANSAS**