

# Lineshaft

## Live Roller Conveyors

# Driven

**24  
HOUR  
Ship**

24 Hour Shipment available on specific sizes. Consult a sales engineer for further information.



#### General Operating Principle:

General operation of the Lineshaft Driven Live Roller Conveyor is achieved through a drive shaft that spans the full length of the conveyor and transmits power to the rollers via a drive spool and belt. When back pressure is applied to the conveyed product, the spools driving the rollers will slip on the shaft, allowing the product to accumulate with a minimum amount of back pressure.

Applications include transportation, minimum pressure accumulation, zero pressure accumulation and sortation.

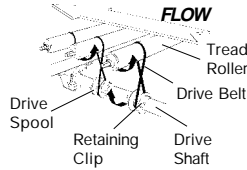
This conveyor offers quiet operation and easy maintenance.

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Summit Metalcraft Corp

# Lineshaft Driven Live Roller Conveyor

## 1 3/8 in. dia. x 16 ga. Rollers



The Lineshaft Driven Live Roller Conveyor is a unique concept in powered conveyors. It has the capability of accumulating products with minimum back pressure. Typical characteristics include quiet operation and easy maintenance.

- **Minimum Back Pressure Accumulation**
- **16 Between Frame Widths**
- **Single Drive Powers Straight Sections, Curves and Spurs**
- **Semi-Precision Bearings for Longer Life and Noise Reduction**
- **Reversible**
- **Safe**
- **Quiet**

Between Frame Width	Weight (lbs.)											
	Drive Section (ft.)	Drive Section (ft.)	Slaved Sections (ft.)									
			3'	10'	1'	2'	3'	4'	5'	6'	7'	8'
13"	147	343	32	56	79	102	128	152	175	201	225	248
14"	150	352	33	57	82	106	133	157	181	208	232	257
15"	154	361	34	59	84	109	137	162	187	215	240	265
16"	157	370	35	61	87	113	141	167	193	222	248	274
17"	160	379	36	63	90	116	146	172	199	229	255	282
18"	163	388	37	65	92	120	150	178	205	236	263	290
19"	166	397	38	67	95	123	155	183	211	242	271	299
20"	169	406	39	68	97	127	159	188	217	249	278	307
21"	173	415	40	70	100	130	163	193	223	256	286	316
22"	176	424	41	72	103	133	168	198	229	263	294	324
23"	179	433	43	74	105	137	172	203	235	270	301	333
24"	182	442	44	76	108	140	176	209	241	277	309	341
25"	185	451	45	78	111	144	181	214	247	284	317	350
26"	188	460	46	79	113	147	185	219	253	291	324	358
27"	192	469	47	81	116	151	189	224	259	297	332	367
28"	195	478	48	83	119	154	194	229	265	304	340	375

### Standard Specifications:

**Frame** - 5 1/2 in. deep x 1 1/2 in. flange x 12 ga. galvanized steel formed channel frames with bolt on end couplers.

**Between Frame Widths** - 13 through 28 in full one inch increments.

**Rollers** - 1 3/8 in. dia. x 16 ga. galvanized rollers with 5/16 in. hex axle and grease packed, semi-precision ball bearings. Rollers spaced on 1 1/2 in. centers. 1 3/8 in. dia. x 18 ga. galvanized rollers are available at speeds less than 60 FPM.

**Floor Supports** - Adjustable 36 in. to 48 in. from floor to top of rollers.

**Drive Shaft** - 1 in. dia. steel shaft full length of conveyor. Delrin chain coupling at bed joints.

**Drive Spools** - 2 in. dia. Delrin spool held in place on shaft by "snap on" retaining clips. One drive spool drives two rollers.

**Drive Belts** - 3/16 in. dia. urethane belts from drive spools to rollers.

**Spool Guard** - Encloses underside of drive shaft, spools and drive belts for full length of conveyor.

**Bearings** - Sealed, self-aligning, pre-lubricated ball bearings support drive shaft.

**Drive Section** - Reducer and motor are mounted underneath conveyor. **Note: Motor extends beyond frame of conveyor if between frame width is less than 20 inches.** Side mounted drive sections are also available.

**Speed Reduction** - "C" face speed reducer. No. 50 chain from reducer to drive shaft.

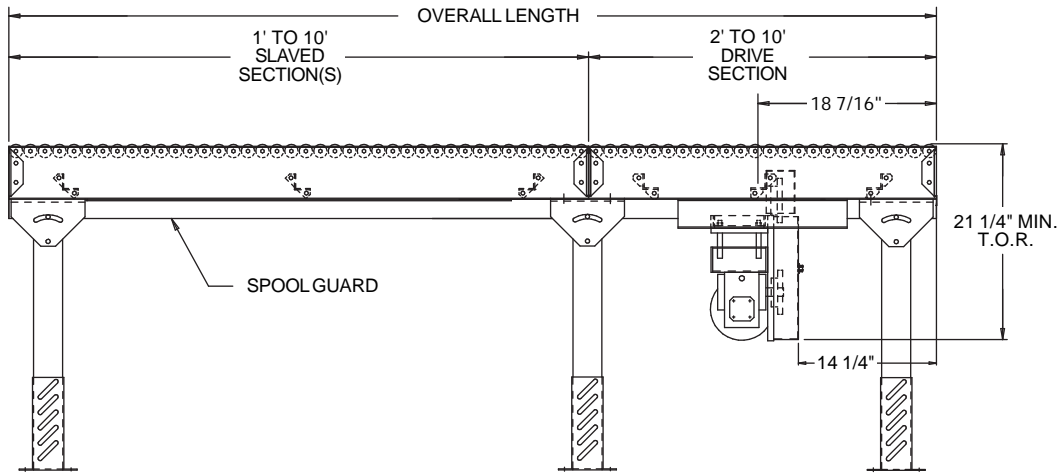
**Motor** - 1/2 HP - 230/460V - 3 Phase - 60 Hz - totally enclosed, fan cooled - 1750 RPM.

**Conveying Speed** - Constant 60 FPM.

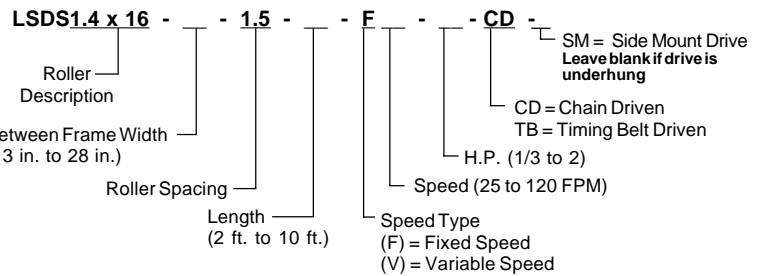
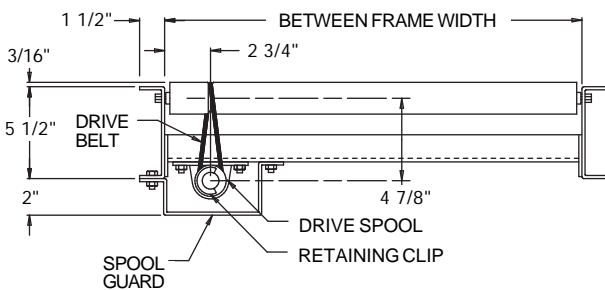
**Load Capacities:**

- Max. load per powered roller = 10 lbs.\*
- Max. driven length with single drive at center = 70 ft.
- Max. driven length per 1/4 HP = 10 ft.
- Do not exceed a 75 lb. total product load without consulting an Omni Metalcraft Corp. Sales Engineer.

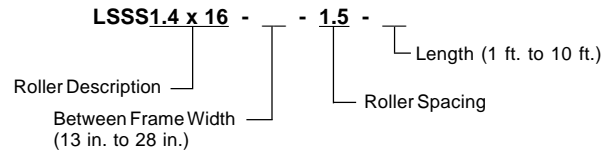
\* Will be less if product has uneven or soft bottom.



**Model Number: Drive Section**



**Model Number: Slaved Section**



**Optional Equipment:**

**Keyed Spools** - Spools are keyed and fit into a keyseat on the drive shaft. Instead of slipping on the shaft, spools provide positive drive. **NOTE: Keyed spool conveyor sections cannot exceed 4 ft. long.**

**Speed-Up Spools** - Larger diameter spools that increase speed 1.3 times the original speed.

**Pneumatic Roller Brake** - Air operated conveyor accessory that stops rollers in 2 ft. or 3 ft. zones. See page 188 for details.

**Blade Stops** - Pneumatically or manually operated blade that pops up between rollers in order to accumulate product. See page 186 and 187 for details.

**Timing Belt Drive** - Used as an option to chain drive, allowing for quieter operation. Timing belt drive is required at a speed of 120 FPM.

**Roller Centers** - 3 in., 4 1/2 in. and 6 in. roller centers are also available.

**Power Crossover** - 1 ft. long section that switches drive shaft from one side of the conveyor to the other. Timing belt and chain driven models available. See page 186 for details. Can also be used to increase speeds.

**External Jump Chain** - 3 ft. long section with a jump chain that transmits power from one conveyor line to a parallel conveyor line. One drive can power two parallel lines. Chain driven and timing belt driven models available. See page 190 for details. Can also be used to increase speeds.

**Conveying Speed** - Constant and variable speeds from 25 to 120 FPM. AC or DC variable speed controllers available.

**Urethane Belt Transfer** - 3 ft. long section has an air operated lifting device that raises urethane transfer belts above the roller surface to transfer product off @ 90°. See pages 178, 179, 180 and 181 for details.

**Spring Assisted Gate Section** - 6 ft. section consisting of 2 ft. fixed section and 4 ft. gate section. See page 182 for details.

**Guard Rails** - 1 1/2 in. wide x 2 in. high x 12 ga. galvanized steel formed angle. One or both sides. **Note: If product contacts guard rails, product flow may be affected.**

**Floor Supports** - Available in higher or lower height adjustments.

**Ceiling Hangers** - 5/8 in. dia. x 10 ft. long threaded rod with mounting hardware.

**Other Rollers** - 1 3/8 in. dia. x 18 ga. or 1 3/8 in. dia. x 3/16 in. wall tubing. Closed style non-precision bearings also available.

**Motors** - Single phase, drip proof, DC motors, inverter duty motors available through 2 HP.

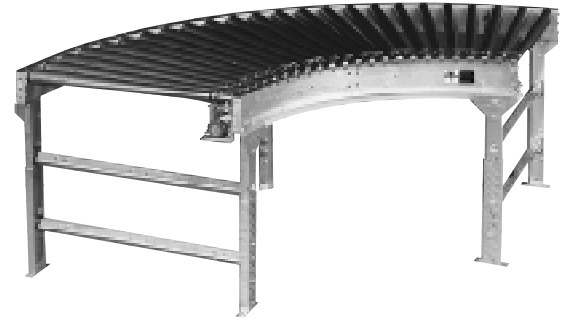
**Electrical Controls** - Start-Stop push button stations, reversing drum switch, one direction and reversible magnetic starters.

**Side Mount Drive** - Allows minimum top of roller height of 10 3/4 inches. **Note: Motor is vertical.**

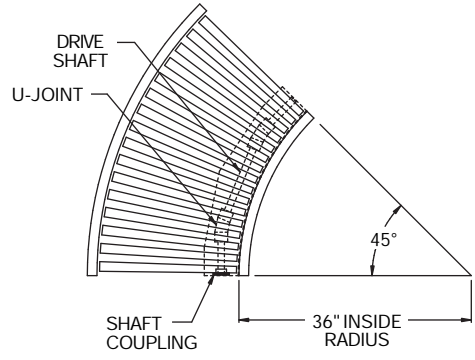
# Lineshaft Driven Curve and Spur Conveyor

Curves - 1 in. to 1 1/2 in. dia. x 18 ga. Tapered Rollers  
 Spurs - 1 3/8 in. dia. x 16 ga. Straight Rollers

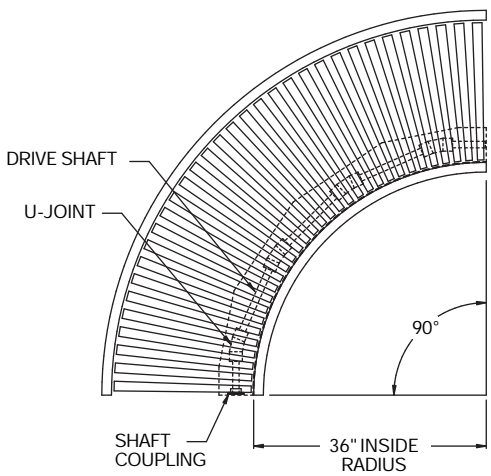
Lineshaft Curves and Spurs are slave driven from lineshaft straight sections or powered by their own drive unit. Curves allow for turns in the product line, whereas spurs are used when product lines converge or diverge.



- Slave Driven from Straight Section or Self Powered
- 30°, 45°, 60° and 90° Curves; 30° and 45° Spurs
- Tapered Rollers on Curves
- 16 Between Frame Widths
- Curves are Transportation Conveyors Only



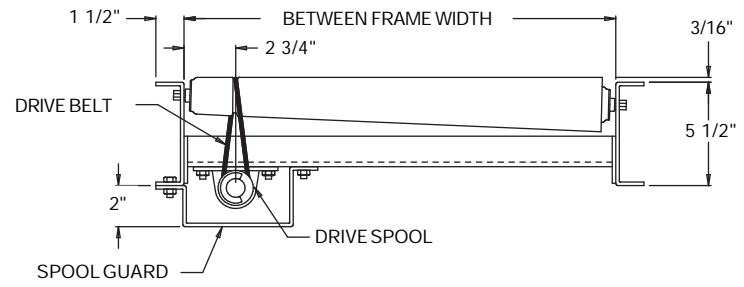
**45° CURVE**



**90° CURVE**

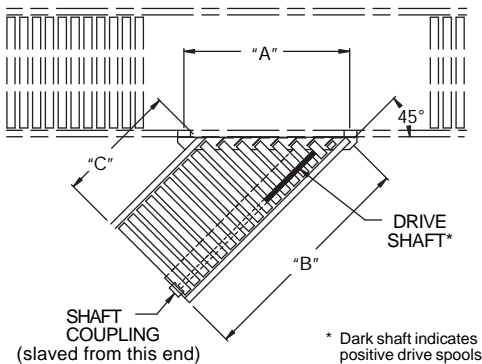
**Note:** 30° curves have 1 ft. tangent sections at each end.

Between Frame Width	Number of Rollers on Curve	90° Curve Roller Centers @ Centerline	CONVEYOR WEIGHT (lbs.)			
			30°	45°	60°	90°
13"	32 Tapered Rollers	2.086"	51	93	109	174
14"		2.111"	53	95	113	179
15"		2.135"	55	97	115	183
16"		2.160"	56	99	118	187
17"		2.184"	58	101	121	191
18"		2.209"	59	103	123	195
19"		2.234"	60	105	126	199
20"		2.258"	61	107	128	203
21"		2.283"	62	110	130	207
22"		2.307"	63	112	133	211
23"		2.332"	176	105	140	228
24"		2.356"	179	107	143	232
25"		2.381"	183	109	146	237
26"		2.405"	186	111	148	241
27"		2.430"	189	113	151	245
28"		2.454"	192	116	154	249

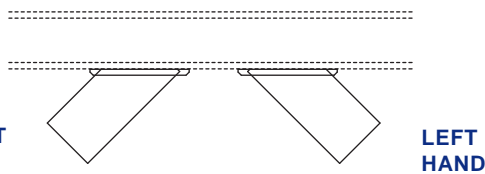


**Model Number:**

**LSSC1.4 x 18 - - 3 - - T**  
 Roller Description      Between Frame Width (13 in. to 28 in.)      Equivalent Roller Spacing      Degree of Curve (30°, 45°, 60° or 90°)  
 (T) Tapered Roller



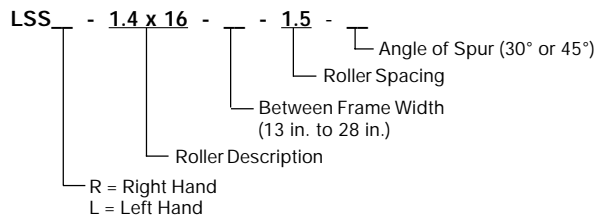
45° SPUR



**Note:** Minimum recommended product length to converge or diverge product is 12".

Between Frame Width	30° SPUR CONVEYOR				45° SPUR CONVEYOR			
	"A" (in.)	"B" (in.)	"C" (in.)	Wt. (lbs.)	"A" (in.)	"B" (in.)	"C" (in.)	Wt. (lbs.)
13"	30 13/16	36	12	47	28 1/8	36	21	56
14"	37 3/4	48	21	73	28 1/8	36	21	59
15"	37 3/4	48	21	76	28 1/8	36	21	62
16"	37 3/4	48	18	77	32 3/8	36	18	62
17"	44 11/16	48	15	78	32 3/8	36	18	64
18"	44 11/16	48	15	80	32 3/8	36	18	67
19"	44 11/16	48	12	80	36 9/16	36	15	66
20"	44 11/16	48	12	82	36 9/16	36	15	68
21"	53 1/2	60	21	117	39 9/16	36	15	71
22"	53 1/2	60	18	118	40 13/16	36	12	70
23"	53 1/2	60	18	120	40 13/16	36	12	72
24"	58 9/16	60	15	121	40 13/16	36	12	74
25"	58 9/16	60	15	124	45 1/16	48	21	113
26"	58 9/16	60	12	124	45 1/16	48	21	115
27"	58 9/16	60	12	126	45 1/16	48	21	119
28"	67 3/16	72	21	167	49 5/16	48	18	118

**Model Number:**



**Standard Specifications:**

**Frame** - 5 1/2 in. deep x 1 1/2 in. flange x 12 ga. galvanized steel formed channel frames with bolt on end couplers. **Note: Outside rail of curve has "triple-punched" hex holes to allow skewing of rollers which affects product tracking. Curve rollers do not represent a true taper.**

**Between Frame Widths** - 13 through 28 in full one inch increments.

**Curve Rollers** - 1 1/2 in. dia. tapered to 1 in. dia. x 18 ga. zinc plated rollers. Grease packed, semi-precision ball bearings.

**Spur Rollers** - 1 3/8 in. dia. x 16 ga. galvanized rollers on 1 1/2 in. centers. Grease packed ball bearings.

**Floor Supports** - Adjustable 36 in. to 48 in. from floor to top of rollers.

**Slave Driven** - Curves or spurs are slave driven from the drive shaft of a lineshaft straight section. Shafts are coupled by a Delrin chain coupling at bed joints.

**Drive Shaft** - 1 in. dia. steel shaft with universal joints as necessary.

**Drive Spools** - 2 in. dia. Delrin spool held in place on shaft by "snap on" retaining clips. One drive spool drives two rollers.

**Drive Belts** - 3/16 in. dia. high tension urethane belt from drive spools to rollers.

**Spool Guard** - Encloses underside of drive shaft, spools and drive belts.

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

**Load Capacities** - Same roller capacity as lineshaft 1.4 straight sections.

**Optional Equipment:**

**Drive** - Drive units can be mounted to curves and spurs to give them power without being slave driven.

**Guard Rails** - 1 1/2 in. wide x 2 in. high x 12 ga. galvanized steel formed angle. One or both sides. **Note: If product contacts guard rails, product flow may be affected.**

**Floor Supports** - Available in higher or lower height adjustments.

**Ceiling Hangers** - 5/8 in. dia. x 10 ft. long threaded rod with mounting hardware.

**Wheel Diverter** - Pneumatically controlled device that automatically diverts product from main line onto a 30° spur. See page 189 for more details.

**Traffic Cop** - Controls product flow where two lines converge eliminating product collisions. Only one line is open at a given time. See page 188 for more details.

**Turning Wheel** - Used on converging lines to insure proper product orientation when product is transferred onto a main line. See page 189 for more details.

**Slaved Merge** - Integral spur and straight section used in applications where products must merge with another conveying line. Both sections are slaved off a common drive. See page 183 for more details.

**True Tapered Roller Curve** - True tapered roller curve available. Will require special radius or special rollers.



# Lineshaft Driven Live Roller Conveyor

## 1.9 in. dia. x 16 ga. Rollers



The Lineshaft Driven Live Roller Conveyor is a unique concept in powered conveyors. It has the capability of accumulating products with minimum back pressure. Typical characteristics include quiet operation and easy maintenance.

- **Minimum Back Pressure Accumulation**
- **27 Between Frame Widths**
- **Reversible**
- **Single Drive Powers Straight Sections, Curves and Spurs**
- **Safe**
- **Quiet**

Between Frame Width*	Weight (lbs.)											
	Drive Section (ft.)	Drive Section (ft.)	Slaved Sections (ft.)									
	3'	10'	1'	2'	3'	4'	5'	6'	7'	8'	9'	10'
13"	134	283	29	50	71	91	114	135	156	179	199	220
14"	137	292	30	52	73	95	119	140	162	186	207	229
15"	139	297	31	53	75	97	121	143	165	189	211	233
16"	142	306	32	55	77	100	125	148	171	196	219	242
17"	145	315	33	57	80	103	130	153	177	203	227	250
18"	147	320	34	58	81	105	132	156	180	207	231	254
19"	150	329	35	59	84	109	137	161	186	214	238	263
20"	152	334	35	60	85	111	139	164	189	217	242	267
21"	155	343	36	62	88	114	143	169	195	224	250	276
22"	157	348	37	63	90	116	146	172	198	228	254	280
23"	160	357	38	65	92	119	150	177	204	235	262	289
24"	164	366	39	67	95	123	154	182	210	242	270	297
25"	166	371	40	68	96	125	157	185	213	245	274	302
26"	168	376	40	69	98	126	159	188	216	249	278	306
27"	171	385	41	71	100	130	163	193	222	256	285	315
28"	174	394	43	73	103	133	168	198	228	263	293	323
29"	176	399	43	74	104	135	170	201	231	266	297	328
30"	178	404	44	75	106	137	172	204	235	270	301	332
31"	181	413	45	77	109	140	177	209	241	277	309	341
32"	183	418	45	78	110	142	180	211	244	281	313	345
33"	186	427	47	80	113	146	184	217	250	288	321	354
34"	188	432	47	81	114	148	186	219	253	291	325	358
35"	191	441	48	82	117	151	190	225	259	298	332	367
36"	193	446	49	83	118	153	193	227	262	302	336	371
37"	196	455	50	85	121	156	197	232	268	309	344	380
38"	198	460	51	86	122	158	199	235	271	312	348	384
39"	202	469	52	88	125	162	204	240	277	319	356	393

### Standard Specifications:

**Frame** - 5 1/2 in. deep x 1 1/2 in. flange x 12 ga. galvanized steel formed channel frames with bolt on end couplers.

**Between Frame Widths** - 13 through 39 in full one inch increments.

**Rollers** - 1.9 in. dia. x 16 ga. galvanized rollers with 7/16 in. hex axle and grease packed ball bearings. Rollers spaced on 3 in. centers.

**Drive Shaft** - 1 in. dia. steel shaft full length of conveyor. Delrin chain coupling at bed joints.

**Drive Spools** - 2 in. dia. Delrin spool held in place on shaft by "snap-on" retaining clips.

**Drive Belts** - 3/16 in. dia. urethane belts from drive spools to rollers.

**Spool Guard** - Encloses underside of drive shaft, spools and drive belts for full length of conveyor.

**Bearings** - Sealed, self-aligning, pre-lubricated ball bearings support drive shaft.

**Drive Section** - Reducer and motor mounted underneath conveyor. **Note: Motor extends beyond frame of conveyor if between frame width is less than 20 in.**

**Speed Reduction** - "C" face speed reducer. No. 50 chain from reducer to drive shaft.

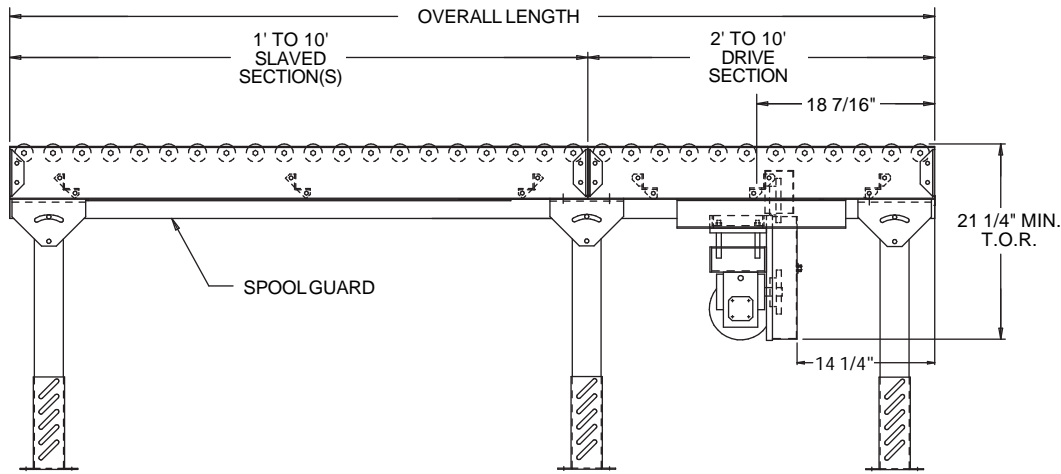
**Motor** - 1/2 HP - 230/460V - 3 Phase - 60 Hz - totally enclosed, fan cooled - 1750 RPM.

**Conveying Speed** - Constant 60 FPM.

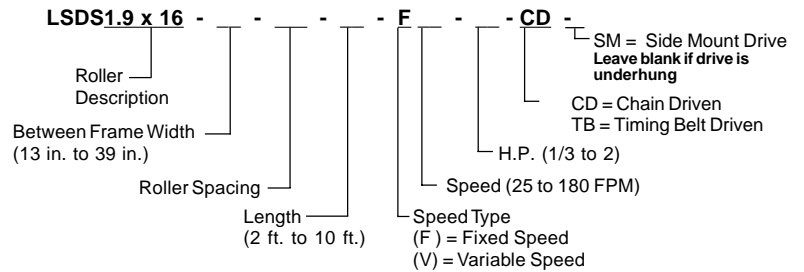
#### Load Capacities:

- Max. load per powered roller = 15 lbs.\*
- Max. driven length with single drive at center = 120 ft.
- Max. driven length per 1/4 HP = 20 ft.
- Do not exceed a 75 lb. total product load without consulting an Omni Metalcraft Corp. Sales Engineer.

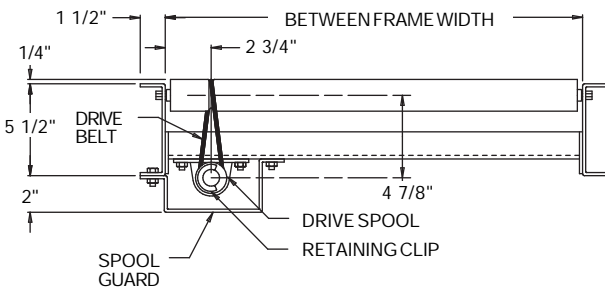
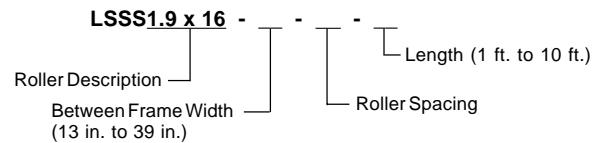
\* Will be less if product has uneven or soft bottom.



**Model Number: Drive Section**



**Model Number: Slaved Section**



**Optional Equipment:**

**Keyed Spools** - Spools are keyed and fit into a keyseat on the drive shaft. Instead of slipping on the shaft, spools provide positive drive.

**NOTE: Keyed spool conveyor sections cannot exceed 4 ft. long.**

**Speed-Up Spools** - Larger diameter spools that increase speed 1.3 times the original speed.

**Pneumatic Roller Brake** - Air operated conveyor accessory that stops rollers in 2 ft. or 3 ft. zones. See page 188 for details.

**Blade Stops** - Pneumatically or manually operated blade that pops up between rollers in order to accumulate product. See page 186 and 187 for details.

**Timing Belt Drive** - Used as an option to chain drive, allowing for quieter operation. Timing belt drive is required at speeds from 120 to 180 FPM.

**Roller Centers** - 3 in., 4 in., 6 in. and 8 in. roller centers are also available.

**Power Crossover** - 1 ft. long section that switches drive shaft from one side of the conveyor to the other. Timing belt and chain driven models available. See page 186 for details. Can also be used to increase speeds.

**External Jump Chain** - 3 ft. long section with a jump chain that transmits power from one conveyor line to a parallel conveyor line. One drive can power two parallel lines. Chain driven and timing belt driven models available. See page 190 for details. Can also be used to increase speeds.

**Floor Supports** - Available in higher or lower height adjustments.

**Conveying Speed** - Constant and variable speeds from 25 to 180 FPM. AC or DC variable speed controllers available.

**Urethane Belt Transfer** - 3 ft. long section has an air operated lifting device that raises urethane transfer belts above the roller surface to transfer product off @ 90°. See pages 178, 179, 180 and 181 for details.

**Spring Assisted Gate Section** - 6 ft. section consisting of 2 ft. fixed section and 4 ft. gate section. See page 182 for details.

**Guard Rails** - 1 1/2 in. wide x 2 in. high x 12 ga. galvanized steel formed angle. One or both sides. **Note: If product contacts guard rails, product flow may be affected.**

**Ceiling Hangers** - 5/8 in. dia. x 10 ft. long threaded rod with mounting hardware.

**Other Rollers** - 1.9 in. dia. x 13 ga. or 1.9 in. dia. x .145 wall, semi-precision and precision bearings available for extended life and noise reduction.

**Motors** - Single phase, drip proof, DC motors, inverter duty motors available through 2 HP.

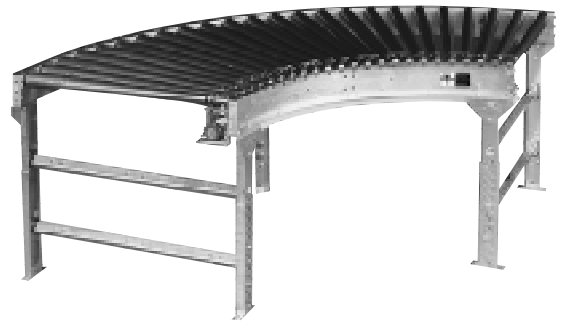
**Electrical Controls** - Start-Stop push button stations, reversing drum switch, one direction and reversible magnetic starters.

**Side Mount Drive** - Allows minimum top of roller height of 10 3/4 inches. **Note: Motor is vertical.**

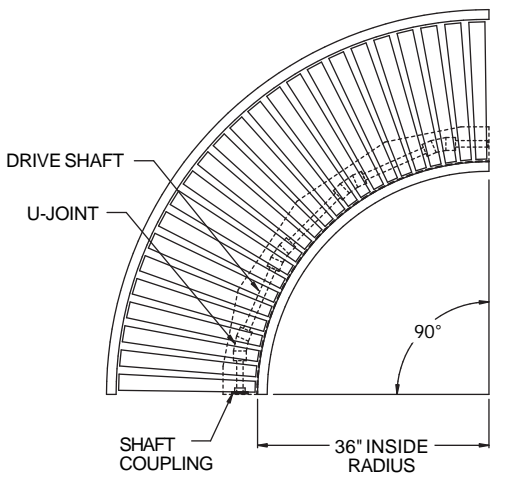
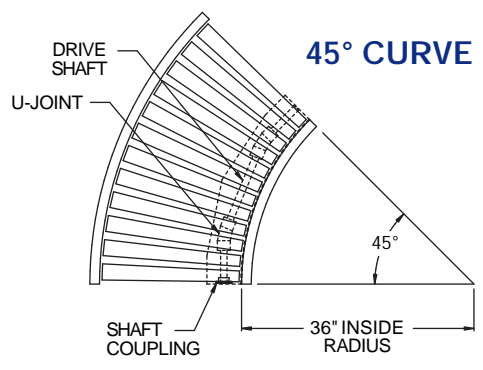
# Lineshaft Driven Curve and Spur Conveyor

Curves - 1 11/16 in. to 2 1/2 in. dia. x 14 ga. Tapered Rollers  
 Spurs - 1.9 in. dia. x 16 ga. Straight Rollers

Lineshaft Curves and Spurs are slave driven from lineshaft straight sections and are powered by their own drive unit. Curves allow for turns in the product line, whereas spurs are used when product lines converge or diverge.

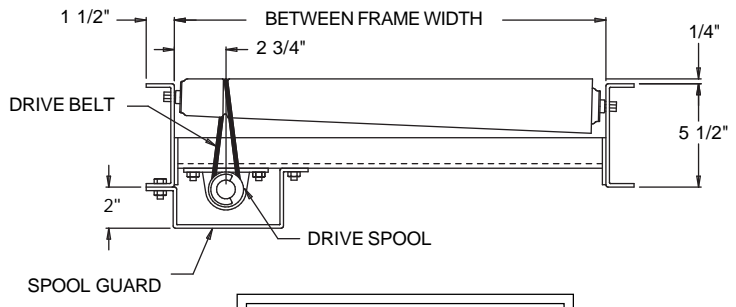


- Slave Driven from Straight Section or Self Powered
- 30°, 45°, 60° and 90° Curves; 30° and 45° Spurs
- Tapered Rollers on Curves
- 27 Between Frame Widths
- Curves are Transportation Conveyor Only



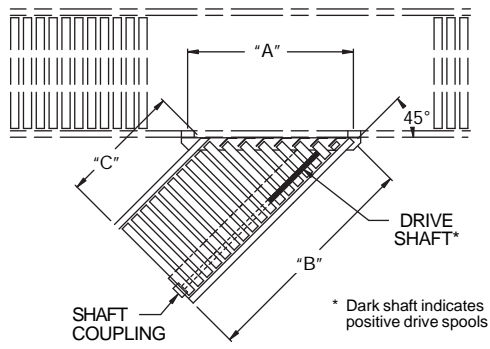
Between Frame Width	90° Curve Rollers Per 90° Curve	Roller Centers @ Centerline	TAPERED ROLLER Weight (Lbs.)			
			30°	45°	60°	90°
13"	24 Tapered Rollers	2.781"	126	89	121	194
14"		2.814"	130	92	125	199
15"		2.847"	132	93	127	203
16"		2.880"	136	96	131	208
17"		2.913"	140	99	136	214
18"		2.945"	142	101	138	218
19"		2.978"	146	104	142	223
20"		3.011"	148	105	144	227
21"		3.043"	152	108	148	233
22"		3.076"	155	110	151	236
23"		3.109"	158	113	155	242
24"		3.142"	162	116	159	248
25"		3.174"	164	117	161	251
26"		3.207"	167	119	164	254
27"		3.240"	170	122	168	260
28"		3.272"	174	125	172	266
29"		3.305"	177	127	174	269
30"		3.338"	179	128	177	273
31"		3.371"	183	131	181	279
32"		3.403"	185	133	183	282
33"		3.436"	182	136	187	288
34"		3.469"	185	138	189	291
35"		3.502"	189	140	193	297
36"		3.534"	191	142	196	300
37"	3.567"	195	145	200	306	
38"	3.600"	197	147	202	309	
39"	3.632"	201	150	206	315	

**Model Number:**  
**LSSC1.9 x 16 - - 3 - - T**  
 Roller Description      Between Frame Width (13 in. to 39 in.)      Equivalent Roller Spacing      Degree of Curve (30°, 45°, 60° or 90°)      T = Tapered Roller

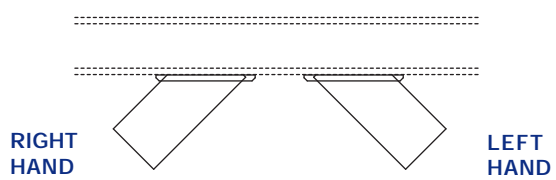


**Note:** 30° curves have 1 ft. tangent sections at each end.





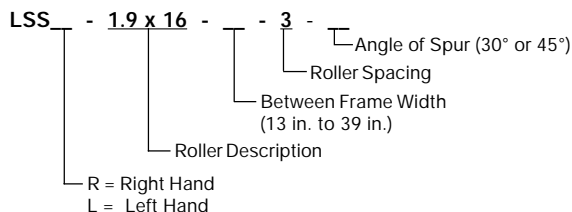
### 45° SPUR



**Note:** Minimum product length recommended to converge or diverge product is 12".

Between Frame Width	30° SPUR				45° SPUR			
	"A" (in.)	"B" (in.)	"C" (in.)	Wt. (lbs.)	"A" (in.)	"B" (in.)	"C" (in.)	Wt. (lbs.)
13"	30 13/16	36	12	32	28 1/8	36	21	37
14"	37 3/4	48	21	47	28 1/8	36	21	38
15"	37 3/4	48	21	49	28 1/8	36	21	40
16"	37 3/4	48	18	48	32 3/8	36	18	39
17"	44 11/16	48	15	48	32 3/8	36	18	40
18"	44 11/16	48	15	49	32 3/8	36	18	42
19"	44 11/16	48	12	49	36 9/16	36	15	40
20"	44 11/16	48	12	50	36 9/16	36	15	42
21"	53 1/2	60	21	70	39 9/16	36	15	44
22"	53 1/2	60	18	69	40 13/16	36	12	41
23"	53 1/2	60	18	71	40 13/16	36	12	43
24"	58 9/16	60	15	70	40 13/16	36	12	45
25"	58 9/16	60	15	72	45 1/16	48	21	65
26"	58 9/16	60	12	71	45 1/16	48	21	67
27"	58 9/16	60	12	73	45 1/16	48	21	70
28"	67 3/16	72	21	96	49 5/16	48	18	67
29"	67 3/16	72	18	96	49 5/16	48	18	69
30"	67 3/16	72	18	98	49 5/16	48	18	72
31"	72 3/8	72	15	97	53 9/16	48	15	68
32"	72 3/8	72	15	99	53 9/16	48	15	71
33"	72 3/8	72	12	98	53 9/16	48	15	73
34"	72 3/8	72	12	100	57 7/8	48	12	69
35"	81 1/16	84	21	127	57 7/8	48	12	72
36"	81 1/16	84	18	126	57 7/8	48	12	74
37"	81 1/16	84	18	129	62 1/16	60	21	100
38"	84 1/2	84	15	128	62 1/16	60	21	103
39"	84 1/2	84	15	130	62 1/16	60	21	106

#### Model Number:



#### Standard Specifications:

**Frame** - 5 1/2 in. deep x 1 1/2 in. flange x 12 ga. galvanized steel formed channel frames with bolt on end couplers. **Note: Outside rail of curve has "triple-punched" hex holes to allow skewing of rollers which affects product tracking. Curve rollers do not represent a true taper.**

**Between Frame Widths** - 13 through 39 in full one inch increments.

**Curve Rollers** - 2 1/2 in. dia. tapered to 1 11/16 in. dia. x 14 ga. zinc plated rollers. Grease-packed ball bearings.

**Spur Rollers** - 1.9 in. dia. x 16 ga. galvanized rollers with 7/16 hex axle on 3 in. centers. Grease-packed ball bearings.

**Floor Supports** - Adjustable 36 in. to 48 in. from floor to top of rollers.

**Slave Driven** - Curves or spurs are slave driven from the drive shaft of a lineshaft straight section. Shafts are coupled by a Delrin chain coupling at bed joints.

**Drive Shaft** - 1 in. dia. steel shaft with universal joints as necessary.

**Drive Spools** - 2 in. dia. Delrin spool held in place on shaft by "snap on" retaining clips.

**Drive Belts** - 3/16 in. dia. high tension urethane belt from drive spools to rollers.

**Spool Guard** - Encloses underside of drive shaft, spools and drive belts.

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

**Load Capacities** - Same roller capacity as lineshaft 1.9 straight sections.

#### Optional Equipment:

**Drive** - Drive units can be mounted to curves and spurs rather than being slave driven.

**Guard Rails** - 1 1/2 in. wide x 2 in. high 12 ga. galvanized steel formed angle. One or both sides. **Note: If product contacts guard rails, product flow may be affected.**

**Floor Supports** - Available in higher or lower height adjustments.

**Ceiling Hangers** - 5/8 in. dia. x 10 ft. long threaded rod with mounting hardware.

**Wheel Diverter** - Pneumatically controlled device that automatically diverts product from main line onto a 30° spur. See page 189 for more details.

**Traffic Cop** - Controls product flow where two lines converge eliminating product collisions. Only one line is open at a given time. See page 188 for more details.

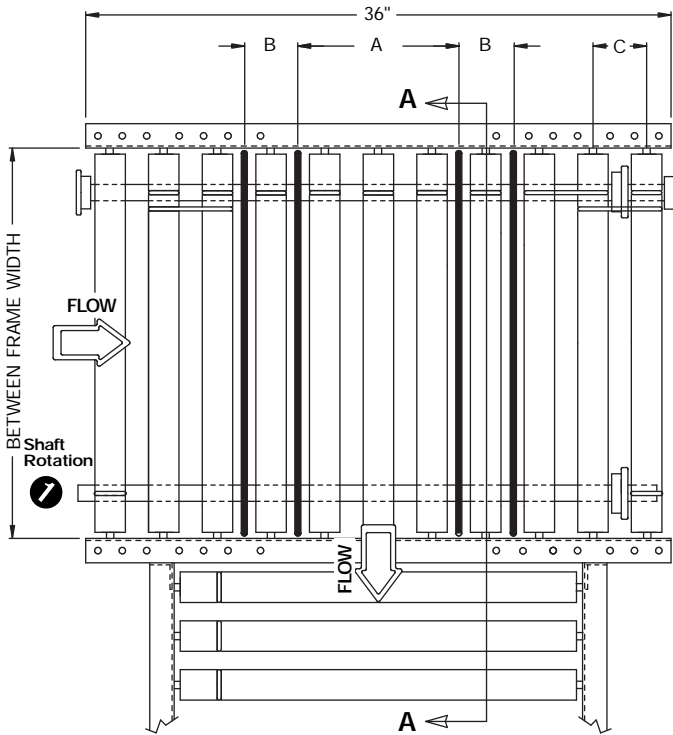
**Turning Wheel** - Used on converging lines to insure proper product orientation when product is transferred onto a main line. See page 189 for more details.

**Slaved Merge** - Integral spur and straight section used in applications where products must merge with another conveying line. Both sections are slaved off a common drive. See page 183 for more details.

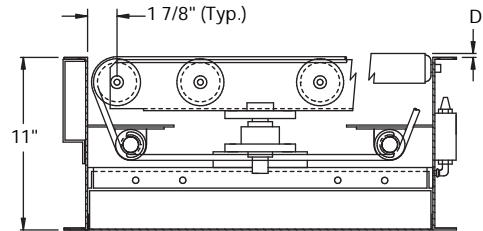
# Urethane Belt Transfer Device - Standard Flow

## 1 3/8 in. or 1.9 in. dia. Rollers

The Belt Transfer Device is slaved from other lineshaft sections. Transfer belts are raised pneumatically above conveying surface to transfer product at 90° onto another conveyor line.



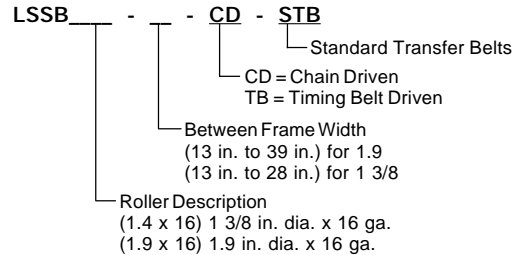
NOTE: Min. Top of Roller = 11 1/4 in.



End View

**NOTE:** This is a slaved unit. Speed and direction of the product being transferred is dictated by the speed and direction of the shaft from which it is slaved. Minimum recommended product width = 15". If product is less than 15" wide or not long enough to contact the four transfer belts, consult an Omni sales engineer for pricing on extended belts or special belt centers.

**Model Number:**



**Standard Specifications:**

- Load Capacity** - Maximum package weight: 75 lbs.
- Frame** - 11 in. deep x 1 1/2 in. flange x 12 ga. galvanized steel formed channel frames with bolt-on end couplers.
- Between Frame Widths** - 13 through 28 in full one inch increments for 1 3/8 in. roller. 13 through 39 in full one inch increments for 1.9 in. roller.
- Rollers** - 1 3/8 in. dia. galvanized rollers with 5/16 in. hex axle on 1 1/2 in. centers or 1.9 in. dia. x 16 ga. galvanized rollers with 7/16 hex axle on 3 in. centers. Both have grease-packed ball bearings.
- Transfer Belts** - Four powered 3/8 in. dia. urethane belts are pneumatically lifted above roller surface to transfer product off @ 90°. See chart for belt centers.
- Jump Chain** - Transmits power from power shaft to idler shaft. Available in chain driven & timing belt driven models.
- Transfer Belt Centers** -

BELT TRANSFER STANDARDS				
Roller Diameter	A	B	C	D
1 3/8	7 5/8	4 1/2	1 1/2	3/16
1.9	10 1/2	3 1/2	3	1/4

- Transfer Belt Height** - Factory assembled to raise 3/8 in. above conveying surface, but adjustable to 3/4 in.
- Slave Driven** - Unit is slave driven from the drive shaft of a lineshaft straight section. Shafts are coupled by a Delrin chain coupling at bed joints.
- Air Bag** - No-maintenance air bag provides approximately 100 to 600 lbs. force from 45 to 100 PSI respectively.
- Air Requirements** - 45 PSI to 100 PSI. Pressure should be regulated to minimum PSI required to actuate device at installation.
- Valve** - Single solenoid 4-way valve. 1/4 in. NPT valve ports. Requires maintained electrical signal of 115V - 1 Phase - 60 Hz
- Filter/Regulator** - Supplied for main air supply line - 3/8 in. NPT port.

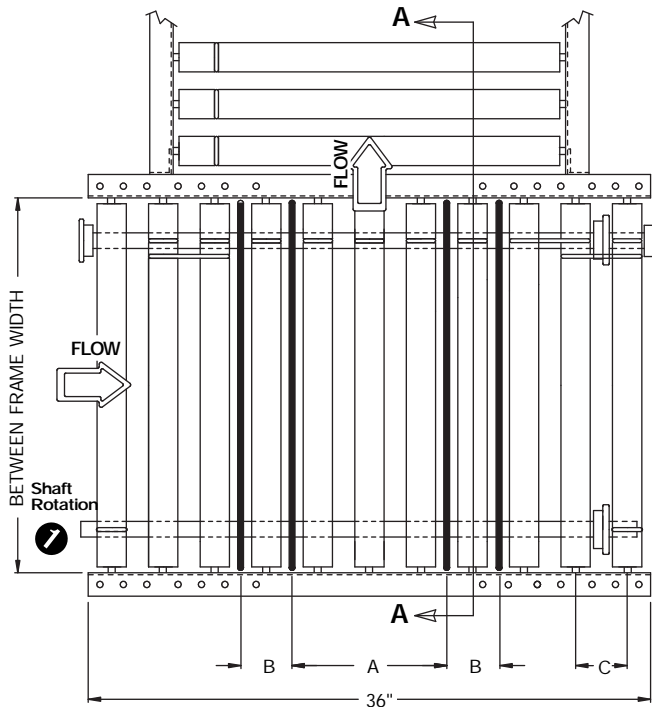
**Options:**

- Drive Unit
- 5th Belt on Center
- Optional Belt Centers
- Roller Brake Installed
- Timing Belt Jump Chain
- End Guard Kit
- Blade Stop Installed

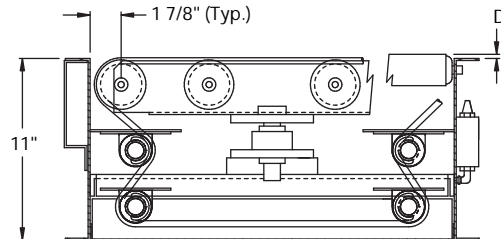
# Urethane Belt Transfer Device - Reverse Flow

## 1 3/8 in. or 1.9 in. dia. Rollers

The Belt Transfer Device is slaved from other lineshaft sections. Transfer belts are raised pneumatically above conveying surface to transfer product at 90° onto another conveyor line. Product transfers opposite that of device on page 178 even though shaft rotation is the same.



NOTE: Min. Top of Roller = 11 1/4 in.



Section A-A

**NOTE:** This is a slaved unit. Speed and direction of the product being transferred is dictated by the speed and direction of the shaft from which it is slaved. Minimum recommended product width = 15". If product is less than 15" wide or not long enough to contact the four transfer belts, consult an Omni sales engineer for pricing on extended belts or special belt centers.

### Model Number:

**LSSB** - **CD** - **RTB**

Roller Description  
 (1.4 x 16) 1 3/8 in. dia. x 16 ga.  
 (1.9 x 16) 1.9 in. dia. x 16 ga.

Reverse Transfer Belts  
 CD = Chain Driven  
 TB = Timing Belt Driven

Between Frame Width  
 (13 in. to 28 in.) for 1 3/8  
 (13 in. to 39 in.) for 1.9

### Standard Specifications:

**Load Capacity** - Maximum package weight: 75 lbs.

**Frame** - 11 in. deep x 1 1/2 in. flange x 12 ga. galvanized steel formed channel frames with bolt on end couplers.

**Between Frame Widths** - 13 through 28 in full one inch increments for 1 3/8 in. roller. 13 through 39 in full one inch increments for 1.9 in. roller.

**Rollers** - 1 3/8 in. dia. galvanized rollers with 5/16 in. hex. axle on 1 1/2 in. centers or 1.9 in. dia. x 16 ga. galvanized rollers with 7/16 hex. axle on 3 in. centers. Both have grease-packed ball bearings.

**Transfer Belts** - Four powered 3/8 in. dia. urethane belts are pneumatically lifted above roller surface. See chart for belt centers.

**Jump Chain** - Transmits power from power shaft to idler shaft. Available in chain driven and timing belt driven models.

#### Transfer Belt Centers -

BELT TRANSFER STANDARDS				
Roller Diameter	A	B	C	D
1 3/8	7 5/8	4 1/2	1 1/2	3/16
1.9	10 1/2	3 1/2	3	1/4

**Transfer Belt Height** - Factory assembled to raise 3/8 in. above conveying surface, but adjustable to 3/4 in.

**Slave Driven** - Unit is slave driven from the drive shaft of a lineshaft straight section. Shafts are coupled by a Delrin chain coupling at bed joints.

**Air Bag** - No maintenance air bag provides approximately 100 to 600 lbs. force from 45 to 100 PSI respectively.

**Air Requirements** - 45 PSI to 100 PSI. Pressure should be regulated to minimum PSI required to actuate device at installation.

**Valve** - Single solenoid 4-way valve. 1/4 in. NPT valve ports. Requires maintained electrical signal of 115V - 1 Ph. - 60 Hz.

**Filter/Regulator** - Supplied for main air supply line - 3/8 in. NPT port.

### Options:

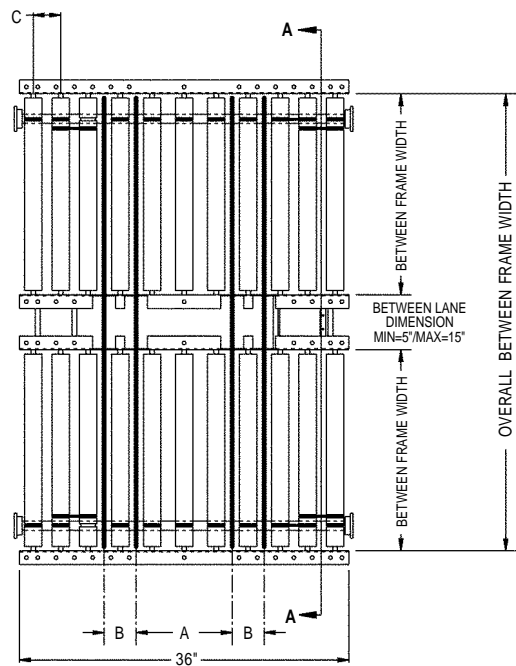
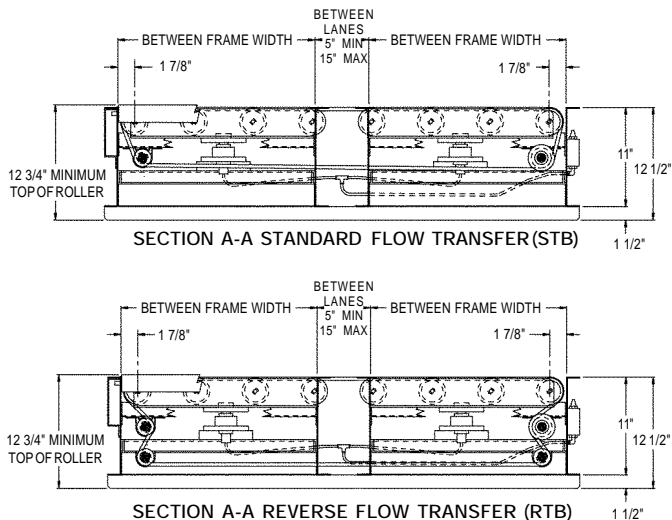
- Drive Unit
- 5th Belt on Center
- Optional Belt Centers
- Roller Brake Installed
- Timing Belt Jump Chain
- End Guard Kit
- Blade Stop Installed



# Urethane Belt Transfer Device - Dual Lane

## 1 3/8 in. or 1.9 in. dia. Rollers

A Dual Lane Belt Transfer Device is slaved from other lineshaft sections. Transfer belts are pneumatically raised above the conveying surface to transfer product at 90° onto another parallel conveying line.



### Model Number:

**LSBB** - Roller Description (1.4 x 16) 1 3/8 in. dia. x 16 ga. (1.9 x 16) 1.9 in. dia. x 16 ga.

**Transfer Type**  
 RTB = Reverse Flow Belt Transfer  
 STB = Standard Flow Belt Transfer

**CD** = Chain Driven  
**TB** = Timing Belt Driven

**Between Frame Width**  
 (13 in. to 28 in.) for 1.4  
 (13 in. to 39 in.) for 1.9

**Between Lanes**  
 5 in. min./15 in. max.

**NOTE:** This is a slaved unit. Speed and direction of the product being transferred is dictated by the speed and direction of the shaft from which it is slaved. If product is not long enough to contact the four transfer belts, consult an Omni sales engineer for pricing on special belt centers.

### Standard Specifications:

- Load Capacity** - Maximum package weight: 75 lbs.
- Frame** - 11 in. deep x 1 1/2 in. flange x 12 ga. galvanized steel formed channel frames with bolt-on end couplers.
- Between Frame Widths** - 13 through 28 in full one inch increments for 1 3/8 in. roller. 13 through 39 in full one inch increments for 1.9 in. roller.
- Between Lane Dimension** - 5 through 15 in full one inch increments.
- Rollers** - 1 3/8 in. dia. galvanized rollers with 5/16 in. hex. axle on 1 1/2 in. centers or 1.9 in. dia. x 16 ga. galvanized rollers with 7/16 hex. axle on 3 in. centers. Both have grease-packed ball bearings.
- Transfer Belts** - Four powered 3/8 in. dia. urethane belts are pneumatically lifted above roller surface. See chart for belt centers.
- Jump Chain** - Transmits power from one lane to the next lane. Available in chain driven and timing belt driven models.
- Transfer Belt Centers** -

- Transfer Belt Height** - Factory assembled to raise 3/8 in. above conveying surface, but adjustable to 3/4 in.
- Slave Driven** - Unit is slave driven from the drive shaft of a lineshaft straight section. Shafts are coupled by a Delrin chain coupling at bed joints. Both lanes are powered by a common drive.
- Air Bag** - No-maintenance air bag provides approximately 100 to 600 lbs. force from 45 to 100 PSI respectively.
- Air Requirements** - 45 PSI to 100 PSI. Pressure should be regulated to minimum PSI required to actuate device at installation.
- Valve** - Single solenoid 4-way valve. 1/4 in. NPT valve ports. Requires maintained electrical signal of 115V - 1 Phase - 60 Hz.
- Filter/Regulator** - Supplied for main air supply line - 3/8 in. NPT port.

### Options:

- Drive Unit
- 5th Belt on Center
- Optional Belt Centers
- Roller Brake Installed
- Timing Belt Jump Chain
- End Guard Kit

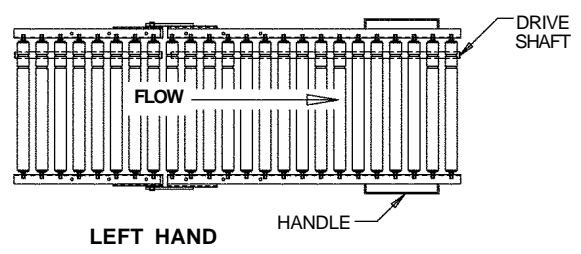
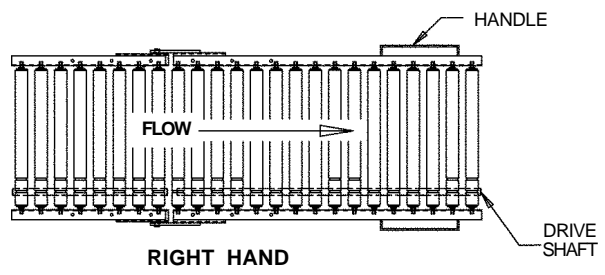
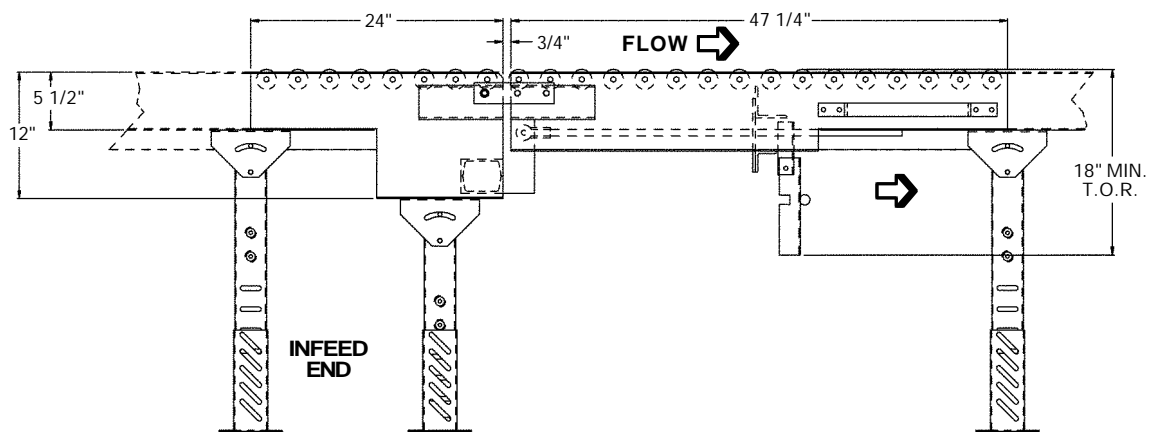
BELT TRANSFER STANDARDS				
Roller Diameter	A	B	C	D
1 3/8	7 5/8	4 1/2	1 1/2	3/16
1.9	10 1/2	3 1/2	3	1/4



# Spring Assisted Gate

## 1 3/8 in. dia. or 1.9 in. dia. Rollers

Lineshaft Spring Assisted Gates are slaved from other lineshaft sections at the infeed end. Gate sections provide easy access for personnel and equipment. They rest against a support which is mounted to the next conveyor in line. Power does not continue through to the end of the gate. A new drive must be supplied for conveyors beyond the end of the gate section.



### Standard Specifications:

**Frame** - 5 1/2 in. deep x 1 1/2 in. flange x 10 ga. painted steel formed channel frames with welded steel spreaders. Overall length is 6 ft. which includes a 2 ft. stationary section and 4 ft. gate section. Painted silver.

**Between Frame Widths** - 13 through 28 in full one inch increments for 1 3/8 in. roller. 13 through 39 in full one inch increments for 1.9 in. roller.

**Rollers** - 1 3/8 in. dia. x 16 ga. galvanized rollers with 5/16 in. hex axle on 1 1/2 in. centers or 1.9 in. dia. x 16 ga. galvanized rollers with 7/16 hex axle on 3 in. centers. Both have grease-packed ball bearings.

**Springs** - Provide counter-balancing forces to assist in raising and lowering of the gate.

**Coupling** - Disengages to stop driving gate section when raised and re-engages when gate section is lowered.

**Drive Spools** - 2 in. dia. Delrin spools held in place on shaft by "snap on" retaining clips.

**Drive Belts** - 3/16 in. dia. urethane belts from drive spools to rollers.

**Spool Guard** - Encloses underside of drive shaft, spools and drive belts for full length of conveyor.

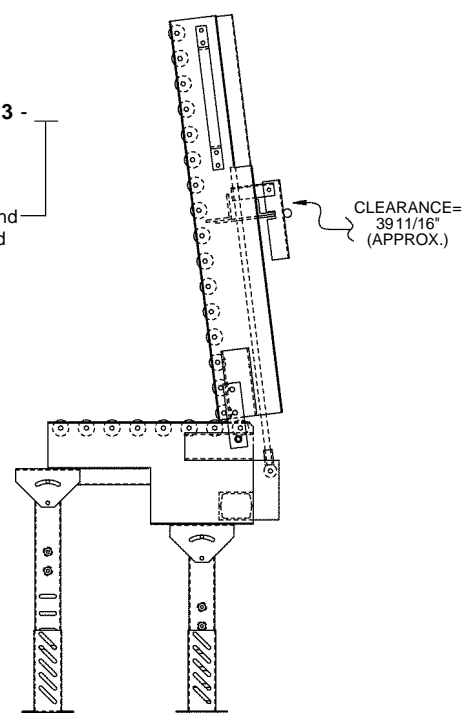
**Option** - Pivot Leg Support.

### Model Number:

**LSSG1.9 x 16 - - 3 -**

Between Frame Width (13 in. to 39 in.) for 1.9  
(13 in. to 28 in.) for 1.4

RH = Right Hand  
LH = Left Hand

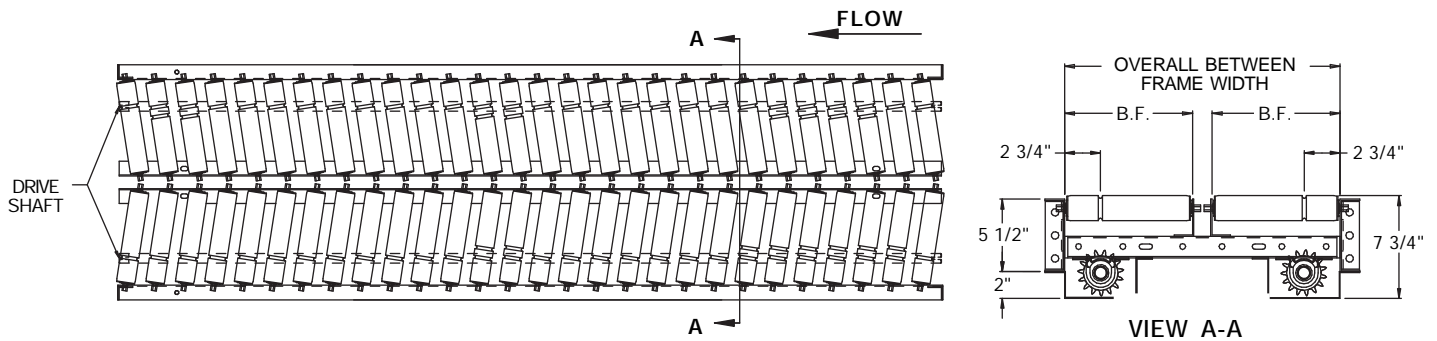


# Lineshaft Driven Live Roller Conveyor Options

## Herringbone

1.9 in. dia. x 16 ga. Rollers or 1 3/8 in. dia. x 16 ga. Rollers

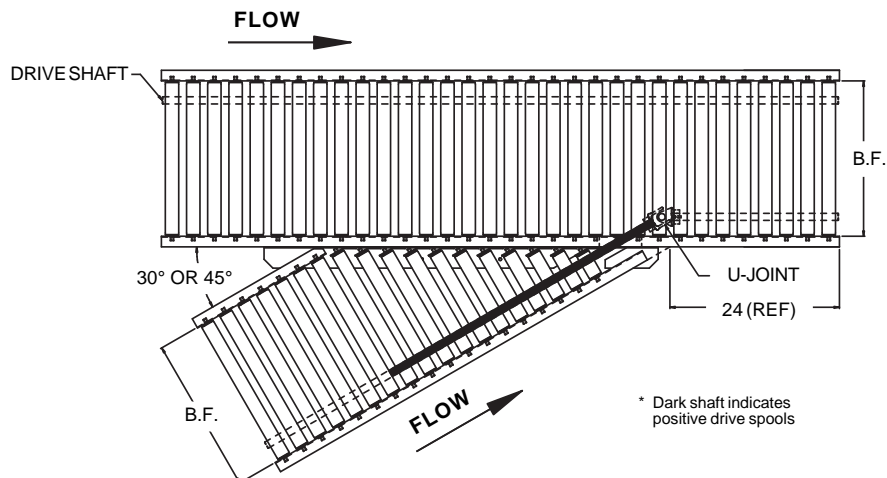
The Lineshaft Driven, Herringbone Conveyor consists of (2) parallel lanes powered by a common drive. Rollers are skewed in order to center product. Products can infeed from parallel lanes and discharge into a single lane.



## Slaved Merge

1.9 in. dia. x 16 ga. Rollers or 1 3/8 in. dia. x 16 ga. Rollers

The Lineshaft Driven, Slaved Merge Conveyor is an integral spur and straight section used in applications where products must merge with another conveying line. Both sections are slaved off a common drive.



# Zero Pressure Lineshaft Driven Live Roller Conveyor

1.9 in. dia. x 16 ga. Rollers or 1 3/8 in. dia. x 16 ga. Rollers

**The lineshaft driven, Zero Pressure Accumulation Conveyor is a horizontal live roller conveyor that allows products to accumulate without colliding.**



- Cascade Release
- Positive Pneumatic Brake For Each Zone
- Zero Back Pressure Reduces Possibility of Product Damage
- Multiple Zones Driven From a Single Drive
- Pneumatic Logic Controls Each Zone (Electrical Logic Not Required)

## General Operation Procedure: “Cascade Release”

The lineshaft driven, zero pressure accumulation conveyor is divided into individual brake zones. The brake zones are controlled by air logic. The rollers in a given brake zone will stop when their corresponding pneumatic brake is actuated. When a load reaches the sensing roller in the last unoccupied zone, the roller brake is actuated and the preceding roller brake is armed. When a load depresses the sensing roller in the preceding zone, its brake is then actuated. This sequence repeats itself until all zones are full. When a load is removed from any zone on the conveyor, preceding zone loads will move forward one at a time. This type of flow is called “**Cascade Release**”.

## Standard Specifications:

**Frame** - 5 1/2 in. x 1 1/2 in. x 12 ga. galvanized formed steel channel frames with bolt-on end couplers.

**Accumulation Zones** - 24 in. long is standard. 18 in., 30 in. and 36 in. zone lengths available. Each zone is controlled by air logic.

**Between Frame Widths** - 13 in. to 39 in. in full inch increments.

**Rollers** - 1.9 in. x 16 ga. galvanized rollers with 7/16 in. hex axle and grease packed bearings. Rollers spaced on 3 in. centers.

**Sensing Roller** - 7/8 in. dia. x 18 ga. wall aluminum roller. (One roller in each Accumulation Zone.) Minimum product weight required to depress trigger roller is 5 lbs.

**Zero Pressure Options:** 1 3/8 in. x 16 ga. dia. galvanized rollers on 1 1/2 in. centers, slug release, electric sensor instead of sensor rollers.

**Conveying Speed** - Constant 60 FPM. Other constant and variable speeds available.

**Speed Reduction** - Sealed worm gear “C” face speed reducer. No. 50 chain from reducer to drive shaft.

**Motor** - 1/2 HP-230/460V-3 Ph-60 Hz.-totally enclosed - fan cooled. Maximum HP available is 2 HP.

**Air Requirements** - Minimum 30 PSI on main air supply line.

**Filter/ Regulator/ Lubricator** - Supplied for main air supply line - 3/8 in. NPT port.

**Floor Supports** - Adjustable 36 in. to 48 in. from floor to top of rollers. Other heights available.

**Drive** - Mounted underneath with a minimum 23 1/4 in. top of roller. If between frame dimension is less than 20 in., motor will extend beyond frame of conveyor. Side mounted drives are available with a minimum 12 3/4 in. top of roller.

**Electrical Controls** - 115V-1 Ph-60 Hz. solenoid valve in discharge zone to override air logic. Limit switch is also supplied to revert control back to air logic once the product is clear.

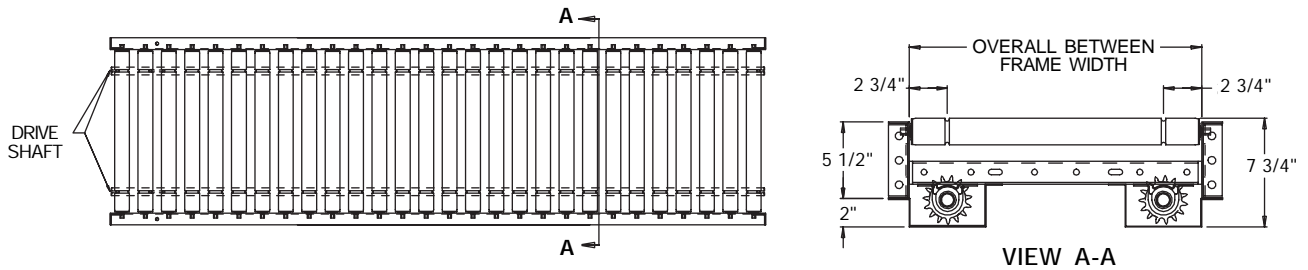
**Roller and Drive Capacity** - 1.9 in. dia. maximum load - 15 lbs. per driven roller. Maximum driven length with single drive @ center - 120 ft. 1 3/8 in. dia. maximum load - 10 lbs. per driven roller. Maximum driven length with single drive @ center - 70 feet for 1.4 rollers.

# Lineshaft Driven Live Roller Conveyor Options

## Dual Shaft

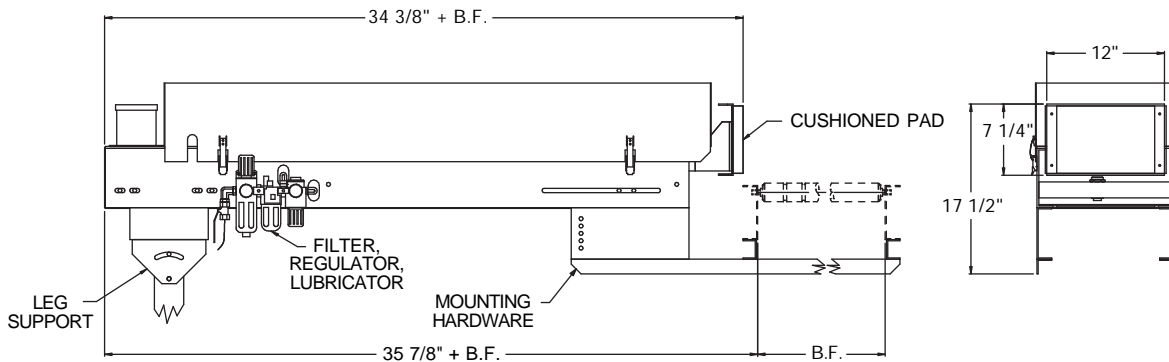
1.9 in. dia. x 16 ga. Rollers or 1 3/8 in. dia. x 16 ga. Rollers

Dual Shaft Lineshaft Conveyors involve a single lane of rollers powered by 2 shafts, increasing the drive capacity of the rollers. Both shafts are powered by a common drive.



## Pusher Device

The High Speed Pusher Device is used to automatically divert product. The ram is pneumatically actuated to divert product at 90° onto another conveyor, chute, etc. Cycle time may vary due to product weight and/or size.



### Standard Specifications:

**Load Capacity** - Maximum package weight - 75 lbs.

**Air Requirements** - 10 PSI to 80 PSI. Pressure should be regulated to minimum PSI required to actuate device at installation.

**Valve** - Double solenoid 4-way valve to actuate air cylinder. Single solenoid 4-way valve to provide air cushion on return stroke. 1/4 in. NPT valve ports. Valves require maintained electrical signal of 115V - 1 Phase - 60 Hz.

**Filter/Regulator/Lubricator** - Supplied for main air supply line - 3/8 NPT port.

**Air Cylinder** - 2 in. bore, double acting cylinder.

**Cycles** - Vary with product weight and between frame width.

**Ram** - 12 in., 18 in. or 24 in. wide with cushioned pad. Also available in wider widths.

# Power & "Speed Up" Power Crossover Device

## 1 3/8 in. or 1.9 in. dia. Rollers

The Power Crossover Device is slaved from other lineshaft sections. It is often used to switch power from one side to the other or to change the speed of different zones in the same conveying line.

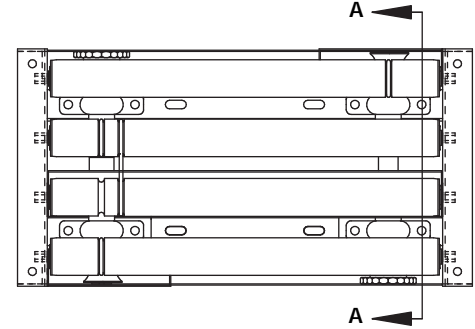
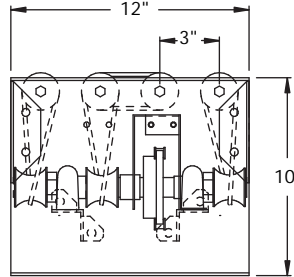
### Model Number:

**LSSX** - Roller Description  
 (1.9 x 16) 1.9 in. dia. x 16 ga.  
 (1.4 x 16) 1 3/8 in. dia. x 16 ga.

**-CD** - Speed Ratio  
 1:1, 1.3:1, 1.5:1  
 CD = Chain Driven  
 TB = Timing Belt Driven

**Roller Spacing**  
 (1.5 in. centers) for 1 3/8  
 (3 in. centers) for 1.9

**Between Frame Width**  
 (13 in. to 28 in.) for 1 3/8  
 (13 in. to 39 in.) for 1.9



### Standard Specifications:

**Frame** - 10 in. deep x 1 1/2 in. flange x 12 ga. galvanized steel formed channel frames with bolt on end couplers.

**Between Frame Widths** - 13 through 28 in full one inch increments for 1 3/8 in. roller. 13 through 39 in full one inch increments for 1.9 in. roller.

**Slave Driven** - Unit is slave driven from the drive shaft of lineshaft straight and/or curve sections. Shafts are coupled by a Delrin chain coupling at bed joints.

**Rollers** - 1 3/8 in. dia. x 16 ga. galvanized rollers with 5/16 in. hex axle on 1 1/2 in. centers or 1.9 in. dia. x 16 ga. galvanized rollers with 7/16 hex axle on 3 in. centers. Both have grease-packed ball bearings.

**Sprockets and Chain** - Two 50B15 sprockets and No. 50 chain. Specify if other than 1:1 ratio is preferred.

**Chain Guard** - Encloses sprockets and chain and includes an integral chain tensioner.

# Lineshaft Accessories - Blade Stops

## Pneumatic Blade Stops

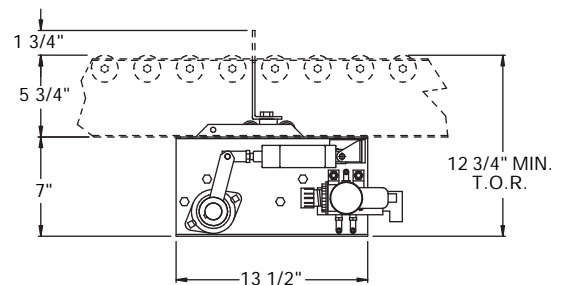
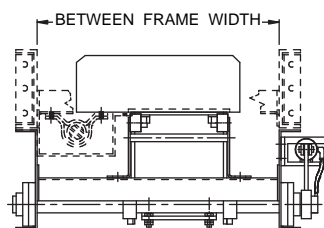
The Blade Stop bolts to the underside of lineshaft straight section and pneumatically raises a blade above the conveying surface to stop products in the conveying line.

### Model Number:

**BSAO** - Between Frame Width  
 (13 in. to 39 in.)

**- 5.75** - Height from bottom of frame to top of roller  
 (5.69) for 1 3/8  
 (5.75) for 1.9

**ND** = Normally down  
**NU** = Normally up



### Standard Specifications:

**Frame** - 7 in. deep x 1 1/2 in. flange x 10 ga. galvanized steel formed channel frames. Bolts to underside of standard frame.

**Between Frame Widths** - 13 through 39 in full one inch increments.

**Stop Height** - Blade stop lifts approximately 2 in. above conveying surface.

**Air Cylinder** - 1 1/2 in. bore x 2 in. stroke, double acting cylinder.

**Filter Regulator** - Supplied for main air supply line - 3/8 in. NPT port.

**Air Requirements** - 10 PSI to 60 PSI. Pressure should be regulated to minimum PSI required to actuate device at installation.

**Valve** - Single solenoid 4-way valve. 1/4 in. NPT valve ports. Requires maintained electrical signal of 115V - 1 Phase - 60 Hz. Use flow controls on valve to set speed of blade stop.

**Shipped Loose** - Customer to mount the Blade Stop to conveyor in the field.

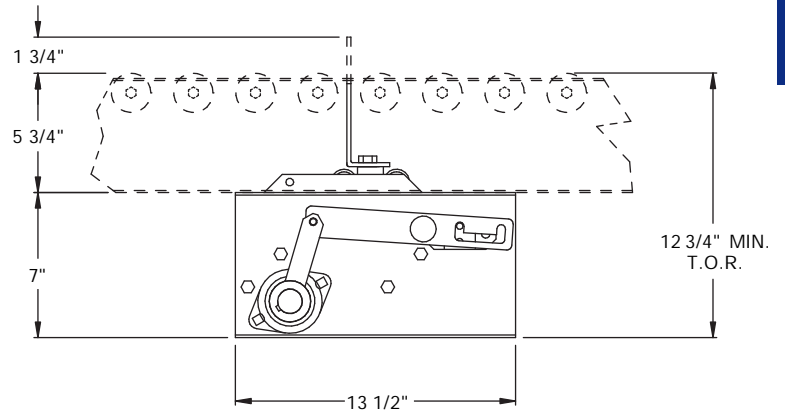
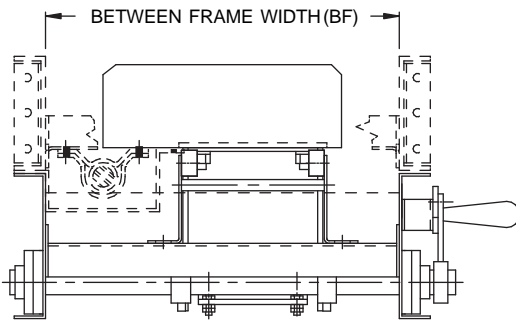
**Load Capacity** - Rated for maximum accumulated back pressure of 75 lbs.



# Lineshaft Accessories - Blade Stops

## Manually Operated (Hand)

The Blade Stop bolts to the underside of a lineshaft straight section and manually raises a blade above the conveying surface to stop products in the conveying line.



### Standard Specifications:

**Frame** - 7 in. deep x 1 1/2 in. flange x 10 ga. galvanized steel formed channel frames. Bolts to underside of standard frame.

**Between Frame Widths** - 13 through 39 in full one inch increments.

**Stop Height** - Blade stop lifts approximately 2 in. above conveying surface.

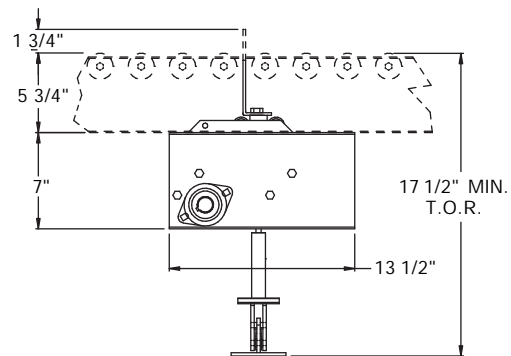
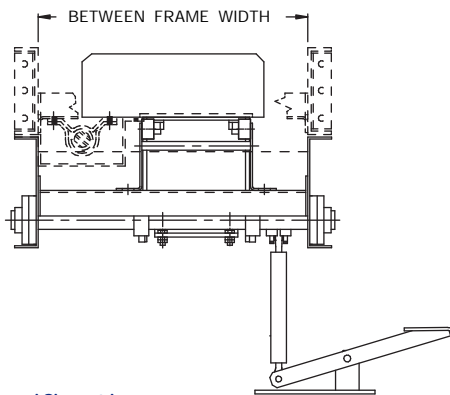
**Shipped Loose** - Customer to mount the Blade Stop to conveyor in the field.

**Load Capacity** - Rated for maximum accumulated back pressure of 75 lbs.

### Model Number:

**B**S**M**O - - - - **H**  
 Between Frame Width (13 in. to 39 in.) | H = Hand Operated  
 Height From Bottom of Frame to Top of Roller (5.69) for 1 3/8 (5.75) for 1.9

## Manually Operated (Foot)



### Standard Specifications:

**Frame** - 7 in. deep x 1 1/2 in. flange x 10 ga. galvanized steel formed channel frames. Bolts to underside of standard frame.

**Between Frame Widths** - 13 through 39 in full one inch increments.

**Stop Height** - Blade stop lifts approximately 2 in. above conveying surface.

**Shipped Loose** - Customer to mount the Blade Stop to conveyor in the field.

**Load Capacity** - Rated for maximum accumulated back pressure of 75 lbs.

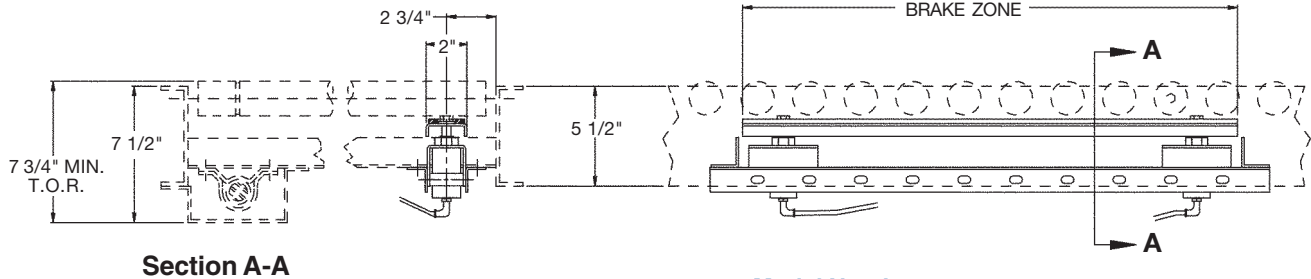
### Model Number:

**B**S**M**O - - - - **F** -  
 Between Frame Width (13 in. to 39 in.) | F = Foot Operated  
 Height From Bottom of Frame to Top of Roller (5.69) for 1 3/8 (5.75) for 1.9  
 ND = Normally down  
 NU = Normally up

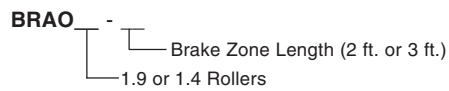
# Lineshaft Accessories

## Pneumatic Roller Brake

The Pneumatic Brake bolts to spreaders underneath standard lineshaft conveyor straight sections. It is used to stop all rollers in a specific area to halt or accumulate product.



**Model Number:**



**Standard Specifications:**

**Hardware** - 10 ga. galvanized steel formed brackets and support angle. Brake support angle bolts between spreaders of standard lineshaft frame.

**Between Frame Widths** - Brake will mount on any width 13 in. to 39 in.

**Brake Channel** - 1 1/4 in. x 5/8 in. x 10 ga. galvanized brake channel with rough top lagging attached.

**Air Cylinder** - 1 1/2 in. bore x 1/2 in. stroke spring-return, rotating air cylinder. Brake is supported by two cylinders.

**Lengths** - Available in 2 ft. or 3 ft. lengths.

**Air Requirements** - 10 PSI to 60 PSI. Pressure should be regulated to minimum PSI required to adequately stop rollers from rotating.

**Valve** - Single solenoid 4-way valve. 1/4 in. NPT valve ports. Requires maintained electrical signal of 115V - 1 Phase - 60 Hz in order to raise brake pad.

**Shipped Loose** - Customer to mount the Roller Brake to conveyor in the field.

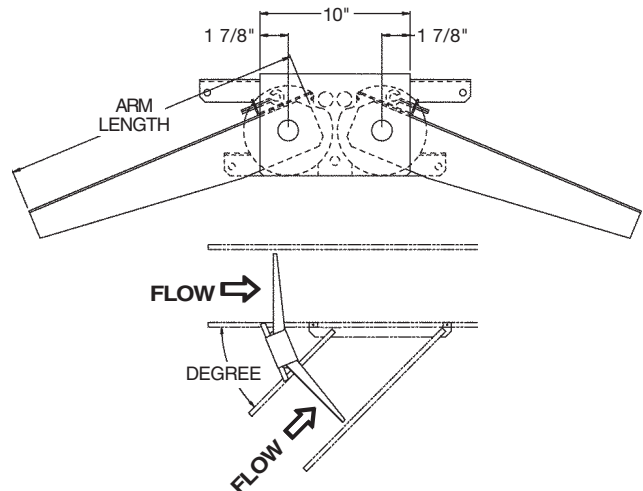
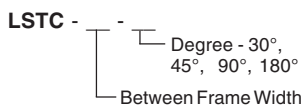
**Load Capacity** - Rated for maximum accumulated back pressure of 75 lbs.

## Traffic Cop

Traffic Cops control product flow where two conveyor lines converge, eliminating collision of products by allowing only one line to be open at any given time. They are available for 30°, 45°, 90° and 180° applications.

**NOTE: Not for accumulating on curves or great lengths of product; the purpose of a traffic cop is to prevent products from colliding, not for accumulation.**

**Model Number:**



**Standard Specifications:**

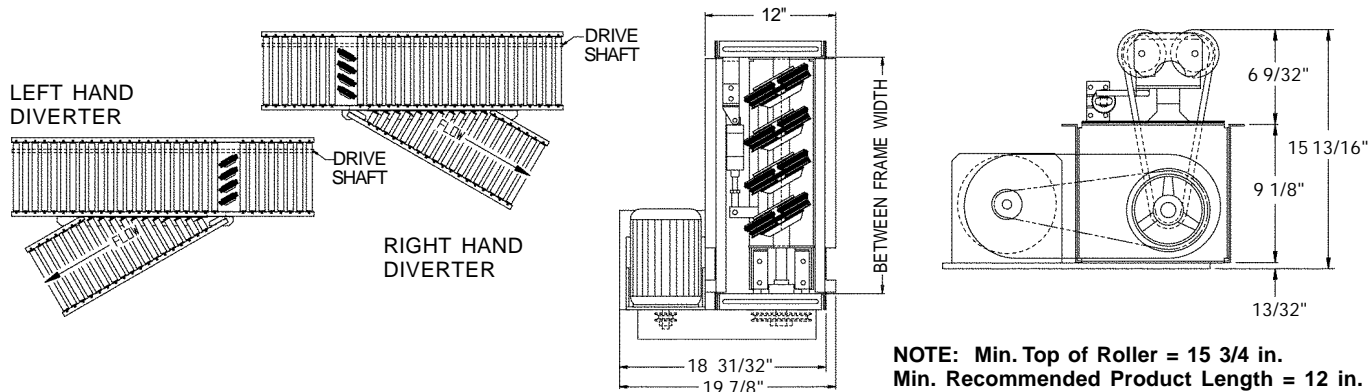
**Arm** - Formed from 1/8 in. thick aluminum.

**Between Frame Widths** - 13 through 39 in full one inch increments widths with arm lengths of 19 in., 25 in., 31 in. and 37 in.

**Load Capacities** - Locked arm impact capacity is 75 lbs. @ 60 FPM. (Minimum package weight of 5 lbs. at 60 FPM required to activate arm.)

**Shipped Loose** - Customer to mount the Traffic Cop to conveyor in the field.

The Diverter bolts to the underside of a straight section. Diverter wheels take the place of 2 rollers and pivot 30° to transfer product from the straight section to a 30° spur. The wheels should travel 1.5 times faster than conveyor rollers.



### Standard Specifications:

**Load Capacity** - Maximum package weight - 75 lbs.

**Support Brackets** - 9 1/4 in. deep x 1 1/2 in. flange x 10 ga. mild steel painted Omni Blue. Bolts to underside of straight section.

**Between Frame Widths** - 16 through 39 in full one inch increments.

**Drive Bands** - 3/8 in. dia. urethane bands power diverter wheels.

**Diverter Bands** - 3/8 in. dia. urethane bands replace tread rollers to transport product.

**Drive Shaft** - 1 in. dia. steel shaft.

**Controls** - AC variable speed or DC variable speed continuous.

**Air Cylinder** - 1 1/2 in. bore x 1 in. stroke, double acting rotating air cylinder.

**Drive** - 1/2 HP - 230/460V - 3 Phase - 60 Hz inverter duty motor or DC motor.

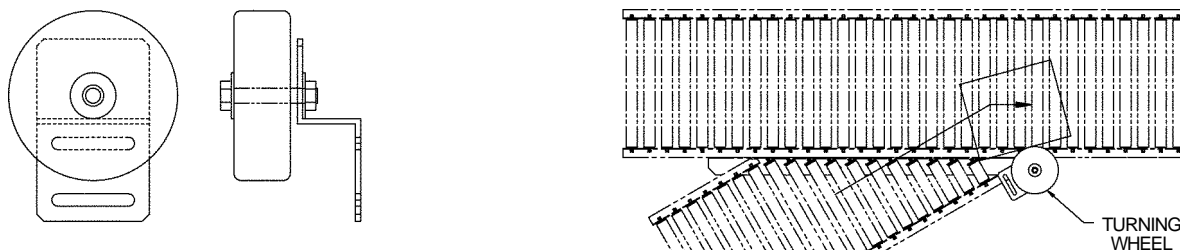
**Air Requirements** - 45 PSI. Pressure should be regulated to minimum PSI required to actuate device at installation.

**Valve** - Single solenoid 4-way valve. 1/4 in. NPT valve ports. Requires maintained electrical signal of 115V - 1 Phase - 60 Hz.

**Filter/Regulator** - Supplied for main air supply line - 3/8 in. NPT port.

## Turning Wheel

Turning Wheels are used on converging lines to insure proper product orientation when products are transferred from spurs onto the main line. They are also used with Traffic Cops, Stops and other accessories to control package flow.



### Standard Specifications:

**Bracket** - 7 ga. formed "Z" bracket can be attached to spur or main conveyor line.

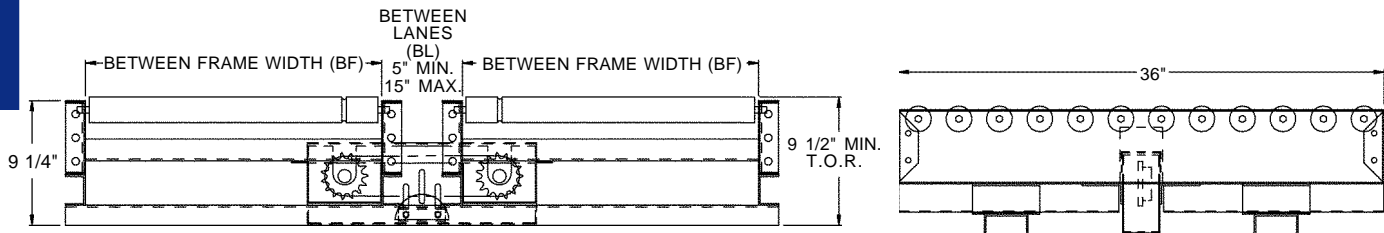
**Wheel** - 6 in. dia. x 2 in. wide face rubber wheel with internal bushing. Material is non-absorbent, oil and chemical resistant, non-marking and non-chipping.

**Model Number:**  
LSTW

# Lineshaft Accessories

## Lineshaft External Jump Chain

The External Jump Chain consists of two 3 ft. long parallel lanes of conveyor. Both lanes can be powered by a common drive section.



### Standard Specifications:

**Frame** - 5 1/2 in deep x 1 1/2 in. flange x 12 ga. galvanized steel formed channel frames with bolt on end couplers.

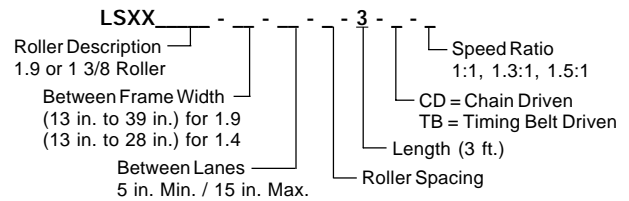
**Between Frame Widths** - 13 through 28 in full one inch increments for 1 3/8 in. roller. 13 through 39 in full one inch increments for 1.9 in. roller.

**Between Lane Widths** - 5 through 15 in full one inch increments.

**Rollers** - 1 3/8 in. dia. galvanized rollers with 5/16 in. hex axle on 1 1/2 in. centers or 1.9 in. dia. x 16 ga. unplated rollers with 7/16 in. hex axle on 3 in. centers. Both have grease-packed ball bearings.

**Slave Driven** - Unit is slave driven from the drive shaft of a lineshaft straight section. Shafts are coupled by a Delrin chain coupling at bed joints. Both lanes are powered by common drive.

### Model Number:



## Conveyor Accessories

**Fixed Angle Stop** - 1 1/2 in. x 1 1/2 in. x 10 ga. galvanized formed angle end stop.

**Fixed Roller Stop** - 1 3/8 in. dia. or 1.9 in. dia. rollers mounted in 10 ga. galvanized formed angle brackets above sideframe of conveyor.

**Multi-Tier Supports** - 3 in. x 1 1/2 in. x 12 ga. galvanized formed channel leg uprights (1500 lb. capacity).

**Portable H-Stands** - 3 in. x 1 1/2 in. x 12 ga. galvanized formed channel leg uprights (800 lb. capacity).

**Knee Brace Supports** - 3/4 in. x 1 1/2 in. x 10 ga. galvanized angle adds stability to conveyor and leg supports.

**Adjustable Channel Guard Rail** - 1 5/8 in. x 1 in. x 12 ga. galvanized formed channel.

**Fixed Channel Guard Rail** - 2 1/2 in. x 1 in. x 12 ga. galvanized formed channel or 3 1/2 in. x 1 1/2 in. x 12 ga. galvanized formed channel.

**Fixed Angle Guard Rail** - 1 1/2 in. x 2 in. x 12 ga. galvanized formed angle or 1 1/2 in. x 6 in. x 12 ga. - galvanized formed angle.

## Lineshaft Driven Live Roller Conveyor Special Options

**Other Rollers** - Other standard roller options are as follows:

- 1.9" dia. x 16 ga. Mild Steel
- 1.9" dia. x 9 ga. Mild Steel
- 1.9" dia. x 9 ga. Galvanized
- 1.9" dia. x 13 ga. Mild Steel
- 1.9" dia. x 16 ga. with Precision Bearings
- 1.9" dia. x 9 ga. with Semi-Precision Bearings
- 1 3/8" dia. x 18 ga. with Non-Precision Bearings
- 1 3/8" dia. x 16 ga. with Non-Precision Bearings
- 1 3/8" dia. x 3/16" with Non-Precision Bearings
- 1 3/8" dia. x 3/16" with Semi-Precision Bearings

**Coated Rollers** - Rollers available zinc plated, urethane coated or teflon coated.

**Heat Treated Rollers** - Rollers available with hardened tube surface to prevent wear when transporting abrasive products.

**Clutch** - Mounted between motor and reducer. Provides soft start and intermittent overload protection.

**Brake** - Mounted between motor and reducer. Provides fail-safe stopping of conveyor when motor is not running.