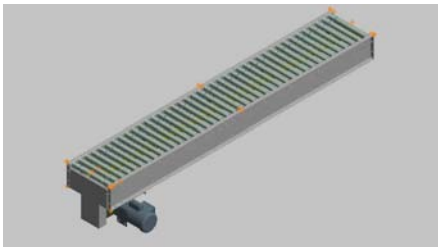
190-NSP

Minimum-Pressure Roller Spool Conveyor

The Model 190-NSP Live Roller Spool Conveyor is a general transport conveyor with the capabilities of accumulating products with back pressure. Quiet operation, versatile design, easy installation and maintenance make the 190-NSP conveyor a valuable component in operations requiring high performance with minimal downtime.

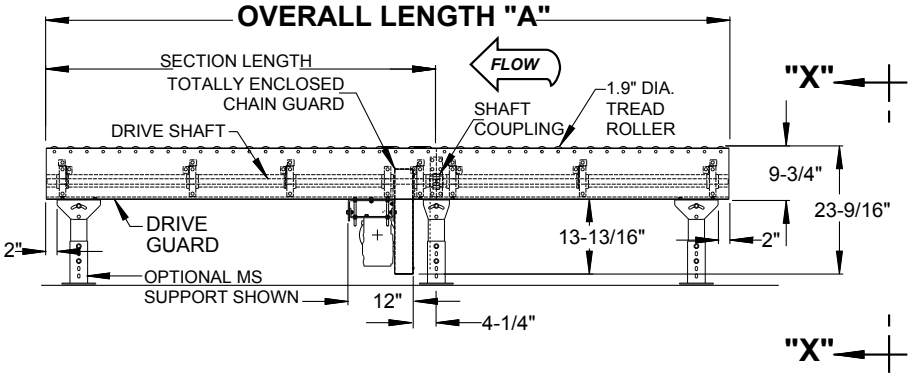
- Reversible
- Adjustable MS-Type Floor Supports Available

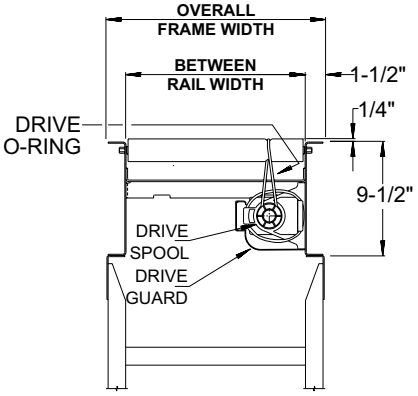


Conveyor shown in Standard Gray.

Size To Order Overall Length "A"	Between Rail Width / Overall Frame Width	15" / 18"	21" / 24"	27" / 30"	33" / 36"	39" / 42"
5′	Weights (lbs.) Based on 3" Roller Centers	236	272	307	341	376
10′		384	450	514	576	639
15′		533	629	721	811	902
20′		682	808	928	1046	1166
25′		830	987	1135	1281	1429
30′		979	1166	1342	1517	1692
35′		1128	1344	1549	1752	1956
40′		1276	1523	1756	1987	2219
45′		1425	1702	1963	2222	2483
50′		1574	1881	2170	2458	2746
55′		1723	2060	2377	2693	3009
60′		1871	2239	2584	2928	3273
65′		2020	2417	2791	3163	3536
70′		2169	2596	2998	3399	3800
75′		2317	2775	3205	3634	4063
80′		2466	2954	3412	3869	4326
85′		2615	3133	3619	4104	4590
90′		2764	3311	3826	4340	4853
95′		2912	3490	4033	4575	5117
100′		3061	3669	4240	4810	5380

All weights in catalog are conveyor weights only. Accessories, crating, etc., are not included.





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Standard Specifications

BED – Roller bed with 1.9 in. dia. roller x 16 ga. galvanized tube spaced every 3 in. Mounted in 9 1/2 in. x 12 ga. powder-painted formed steel channel frame bolted together with splice plates.

CROSS BRACING – Rods with turnbuckles are fastened to underside of bed to provide proper alignment of bed rollers and insure correct product tracking. Supplied to section adjoining drive and every other section, 20 ft. bed lengths and over. Supplied on bed lengths 9 ft. and over.

DRIVE – Mounted underneath, placed near center of conveyor. Note: On conveyors less than 24 in. OAW motor extends beyond frame. Chain guard located on left-hand side.

DRIVE SHAFT – 1 in. dia. steel shaft extends full length of conveyor. Chain coupling at bed joints. Located on left-hand side.

DRIVE SPOOLS – 2 in. dia. Delrin spool held in place on drive shaft with spool spacers.

DRIVE GUARD – Underside of drive shaft with spools and drive o-rings guarded full length of conveyor.

DRIVE O-RING – 3/16 in. dia. polyurethane o-ring from drive spool to tread rollers.

BEARINGS – Sealed, pre-lubricated, self-aligning ball bearings with eccentric lock collar on drive shaft. Pre-lubricated ball bearings in tread rollers.

SPEED REDUCTION – Sealed worm gear C-face speed reducer. No. 50 roller chain to drive shaft.

MOTOR – 1/2 HP, 208/230/460/575V, 3 Ph. 60 Hz. Totally enclosed C-face.

CONVEYING SPEED – Constant 65 FPM.

CAPACITY – Maximum load per powered roller: 15 lbs. Note: Maximum load capacity will be less for products with soft or irregular bottoms. Total load NOT TO EXCEED capacity in chart.

FLOOR SUPPORTS – Supplied as optional equipment.

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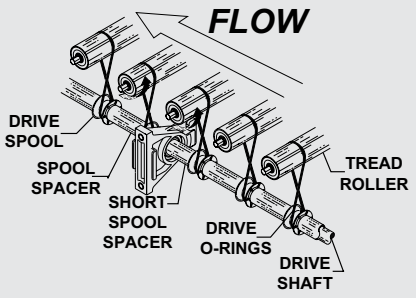
Load Capacity Chart @ 65 FPM									
HP	Overall Frame Width			Overall Frame Width			Overall Frame Width		
	18"			24" to 30"			36" to 42"		
	Total Load (lbs.)			Total Load (lbs.)			Total Load (lbs.)		
	Up To 60'	Up To 90'	Up To 120'	Up To 60'	Up To 90'	Up To 120'	Up To 60'	Up To 90'	Up To 120'
1/2	1550	580	–	1340	250	–	1020	–	–
1	*3600	4090	3110	*3600	3770	2680	*3600	3280	2040
2	–	–	*7200	–	–	*7200	–	–	*7200

*Limited to 15 lbs. per driven roller. Note: Capacity in chart based on 3 in. roller centers with all rollers powered.

Motor Selection Chart		
FPM	30-44	45-120
HP (Max.)	1	2

If the required horsepower exceeds the maximum horsepower shown in the chart, more than one drive is required.



1) Powered drive shaft (coupled at bed joints) is bearing supported on frame.
2) Drive o-ring transmits power to tread rollers from drive shaft.
3) Drive spool (held in place by spool spacers) and groove in tread roller keep drive o-ring in position.
4) If back pressure (accumulation) is applied to tread roller, drive spool will slip on drive shaft, stopping power to tread roller.

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Optional Equipment

FLOOR SUPPORTS – MS Type floor supports are available with a wide range of adjustment. Specify top of belt or roller elevation. One support required at every bed joint and ends of conveyor. Holes in feet for lagging to floor. Knee braces recommended above MS-6 support.

CONVEYING SPEED – Other constant and variable speeds from 30 to 120 FPM. Over 120 FPM timing belt drive recommended. Capacity affected with speed change.

SIDE MOUNTED DRIVE – with Hytrol Reducer.

SIDE MOUNTED DRIVE – with Gearmotor.

O-RING DRIVE CHAIN – With sealed in lubricant (recommended for applications that do not permit regular lubrication).

LOW ELEVATION DRIVE – Gearmotor mounted inside of conveyor. Minimum elevation 11 1/4 in.

POSITIVE DRIVE – Spools are keyed to drive shaft in positive drive areas.

CROSSOVER – Separate section relocates drive shaft from one side of conveyor to the other. Minimum elevation: 12 3/8 in.

ONE DIRECTION O-RING TRANSFER – See Conveyor Accessories.

REVERSING O-RING TRANSFER – See Accessories section.

GUARD RAILS – Adjustable Universal Channel Guard Rail, fixed channel, or type A & B angle. Note: If product comes in contact with guard rails, product flow will be affected. Fixed channel overlapping, one direction. Fixed channel non-overlapping, reversing.

PACKAGE STOPS – Blade, roller, or pin type stops available, contact factory.

POLY-TIER SUPPORTS – 36 in. to 120 in. support heights in 6 in. increments. Knee braces supplied.

CEILING HANGERS – 5/8 in. dia. x 8 ft. long unplated rods fully threaded. Other lengths and galvanized rods available.

MOTORS – Energy efficient, single phase, brakemotor, other characteristics. 2 HP maximum.

ELECTRICAL CONTROLS – Non-reversing or reversible magnetic starters and push-button stations. AC variable frequency drive.