

HYTROL CONVEYOR COMPANY, INC.

Model **RBI** Floor-to-Floor Incline Conveyor (Roller Bed)

The Model RBI is a floor-to-floor incline conveyor. It is equipped with an adjustable double nose-over at the discharge end to insure a smooth transfer from the incline to horizontal plane. Inclines are easily adjusted up to 30°. This conveyor can also be used as a booster conveyor in gravity flow systems.

- 12 Belt Widths
- Center Drive
- Reversible
- Brake Motor
- System Ends
- Double Nose-over
- Pop-out Roller
- Powered Feeder
- Ceiling Hangers Available
- Adjustable MS-Type Floor Supports Available
- Undertrussing (18", 24", & 30" OAW From Stockyard Only)



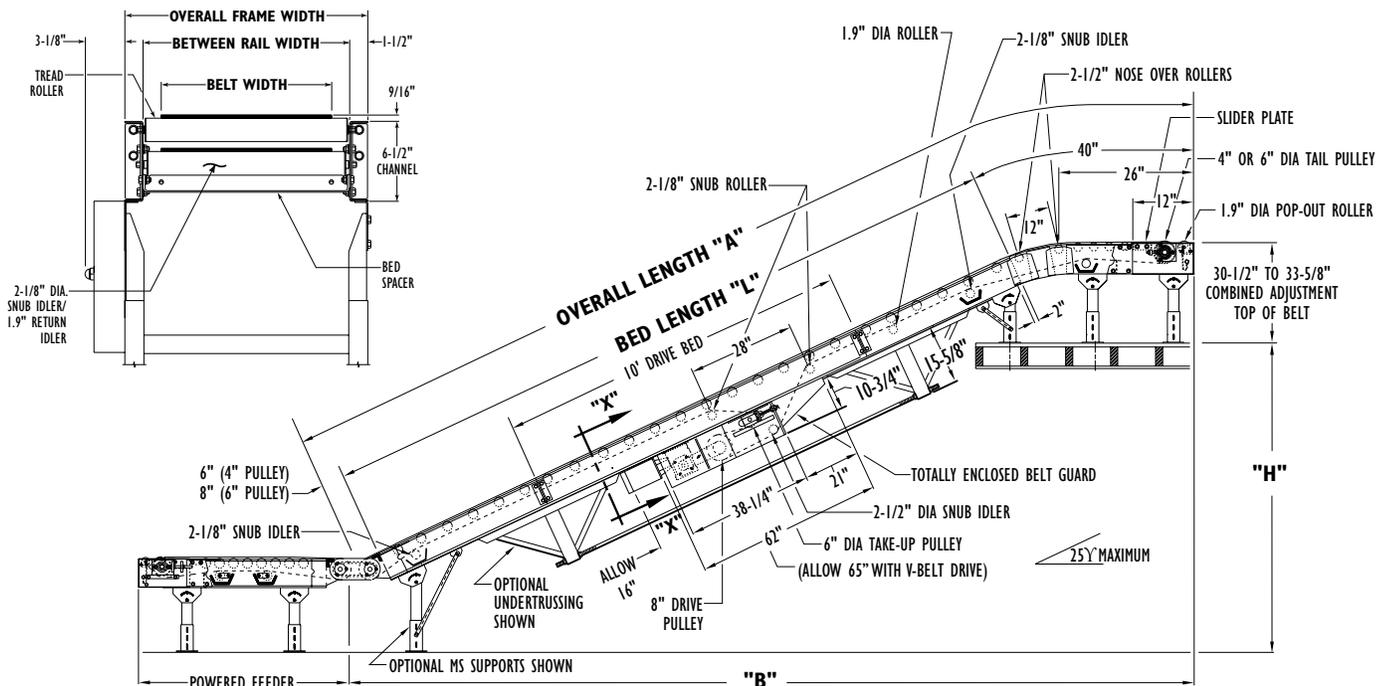
Conveyor shown with optional floor supports

SIZE TO ORDER Overall Length "A" 4" Dia. Pulley	Bed Length "L"	"B" @ 25°	"H" @ 25° Infeed @ 30-1/2" Discharge @ 30-1/2"	Between Rail Width	13"	15"	17"	19"	21"	23"	25"	SIZE TO ORDER Overall Length "A" 6" Dia. Pulley	27"	31"	33"	37"	39"			
					Belt Width	10"	12"	14"	16"	18"	20"		22"	24"	28"	24"	28"	30"	34"	36"
				Overall Frame Width	16"	18"	20"	22"	24"	26"	28"					30"	34"	36"	40"	42"
13'-10"	10'	12'-8"	4'-11"	Weights (LBS.)	886	941	996	1051	1106	1161	1216	14'	1305	1457	1533	1685	1761			
15'-10"	12'	14'-7"	5'-8"		914	971	1028	1085	1142	1199	1256	16'	1347	1503	1581	1737	1815			
17'-10"	14'	16'-5"	6'-4"		942	1001	1060	1119	1178	1237	1296	18'	1389	1549	1629	1789	1869			
19'-10"	16'	18'-3"	7'-2"		970	1031	1092	1153	1214	1275	1336	20'	1431	1595	1677	1841	1923			
21'-10"	18'	20'-1"	8'-0"		998	1061	1124	1187	1250	1313	1376	22'	1473	1641	1725	1893	1977			
23'-10"	20'	21'-11"	8'-10"		1026	1091	1156	1221	1286	1351	1416	24'	1515	1687	1773	1945	2031			
25'-10"	22'	24'-8"	10'-0"		1054	1121	1188	1255	1322	1389	1456	22'	1557	1733	1821	1997	2085			
27'-10"	24'	25'-6"	10'-6"		1082	1151	1220	1289	1358	1427	1496	28'	1599	1779	1869	2049	2139			
29'-10"	26'	27'-4"	11'-5"		1110	1181	1252	1323	1394	1465	1536	30'	1641	1825	1917	2101	2193			
31'-10"	28'	29'-2"	12'-5"		1138	1211	1284	1357	1430	1503	1576	32'	1683	1871	1965	2153	2247			
33'-10"	30'	31'-0"	13'-1"		1166	1241	1316	1391	1466	1541	1616	34'	1725	1917	2013	2205	2301			
35'-10"	32'	33'-10"	14'-0"		1194	1271	1348	1425	1502	1579	1656	32'	1767	1963	2061	2257	2355			
37'-10"	34'	34'-8"	14'-7"		1222	1301	1380	1459	1538	1617	1696	38'	1809	2009	2109	2309	2409			
39'-10"	36'	36'-5"	15'-7"		1250	1331	1412	1493	1574	1655	1736	40'	1851	2055	2157	2361	2463			
41'-10"	38'	38'-2"	16'-6"		1278	1361	1444	1527	1610	1693	1776	42'	1893	2101	2205	2413	2517			
43'-10"	40'	40'-0"	17'-4"		1306	1391	1476	1561	1646	1731	1816	44'	1935	2147	2253	2465	2571			

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

INCLINED

SECTION X-X



• Standard Specifications

Model **RBI**

- BELT**–Black Trackmate 120 Roughtop with PVC cover. Clipper lacing.
- BED**–Roller bed with 1.9 in. dia. roller x 16 ga. galvanized tube spaced every 6 in. Mounted in 6-1/2 in. x 12 ga. powder painted, formed steel channel frame. Standard 4 ft., 6 ft., 8 ft., and 10 ft. long sections bolt together with splice plates.
- DOUBLE NOSE-OVER**–A 26 in. long horizontal and a 12 in. long nose-over section provides a two-step transition of product from incline to horizontal. Provides up to 30° incline adjustment.
- LOWER POWERED FEEDER**–Chain type driven from tail pulley of inclined conveyor. Supports not included in base price.
- CENTER DRIVE**–Located on the incline section. Chain guard located on left hand side.
- DRIVE PULLEY**–8 in. dia. with 1-7/16 in. dia. shaft at bearings, fully lagged.
- TAIL PULLEY**–4 in. dia. with 1 in. dia. shaft at bearings or 6 in. dia. with 1-3/16 in. dia. shaft at bearings, machine crowned.
- TAKE-UP PULLEY**–4 6 in. dia. with 1-3/16 in. dia. shaft at bearings, machine crowned.
- TAKE-UP**–Take-ups in center drive provides 16 in. of belt take-up.

- SNUB IDLER/NOSE-OVER ROLLERS**–Adjustable 2-1/8 in. dia. or 2-1/2 in. dia. pre-lubricated ball bearings. Snub guards included.
- RETURN IDLER**–Adjustable 1.9 in. dia., pre-lubricated ball bearings.
- BEARINGS**–Sealed, pre-lubricated, self-aligning, ball bearings on drive, tail and take-up pulley.
- SPEED REDUCTION**–Sealed worm gear C-Face speed reducer. No. 50 roller chain to drive pulley.
- MOTOR**–1 HP-208/230/460/575V-3 Ph. 60 Hz. Totally Enclosed C-Face “SSB” Brake Motor (6 ft./lb.).
- BELT SPEED**–Constant 65 FPM.
- CAPACITY**–Maximum load per linear foot of conveyor 225 lbs. NOT TO EXCEED capacity in charts.
- FLOOR SUPPORTS**–Now supplied as optional equipment.

BR	BELT WIDTH	OAW	FEEDER LENGTH
13"	10"	16"	35 1/2"
15"	12"	18"	
17"	14"	20"	
19"	16"	22"	
21"	18"	24"	50 1/2"
23"	20"	26"	
25"	22"	28"	
27"	24"	30"	
31"	28"	34"	79 1/2"
33"	30"	36"	
37"	34"	40"	91 1/2"
39"	36"	42"	

LOAD CAPACITY CHART 25° INCLINE @ 65 FPM W/ROUGHTOP BELT			
HP	BELT WIDTHS TO	LENGTHS UP TO	
		14'	44'
DISTRIBUTED LOAD (LBS.)			
1	22"	605	585
	30"	595	565
	36"	585	545
2	22"	1245	1225
	30"	1235	1205
	36"	1225	1185

• 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-3 support.
- BELT**–Brown Polymate Roughtop w/Nitrile cover, Pure Gum Rubber Roughtop.
- BELT SPEED**–Other constant and variable speeds V-belt drive supplied on speeds under 20 FPM (1 HP)–46 FPM (2 HP). *NOTE: Capacity affected with speed change.
- V-BELT DRIVE**–V-belt supplied between motor and reducer. Allow 65 in.
- O-RING DRIVE CHAIN**–With sealed in lubricant (Recommended for applications that do not permit regular lubrication).
- GUARD RAILS**–Adjustable Universal Channel Guard Rail, overlapping fixed channel (one direction), non-overlapping fixed channel (bi-directional).

- ROLLER CENTERS**–Tread rollers spaced on 3 in., 9 in., or 12 in. centers.
- PULLEYS**–6 in. dia. tail pulley with 1-3/16 in. dia. shaft at bearings in place of 4 in. when not furnished as standard.
- CEILING HANGERS**–5/8 in. dia. x 8 ft. long unplated rods fully threaded. Other lengths and galvanized rods available.
- UNDERTRUSSING**–Available in place of ceiling hangers. Maximum bed length 40 ft. Maximum overall width 30 in.
- MOTORS**–Energy efficient, single phase, other characteristics. 2 HP maximum.
- ELECTRICAL CONTROLS**–Non-reversing and reversible magnetic starters and push button stations. AC variable frequency drive.

