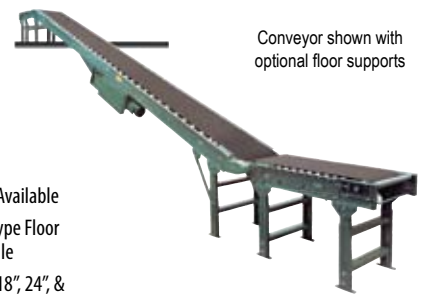


The Model RBI is a floor-to-floor incline conveyor. It is equipped with an adjustable double nose-over at the discharge end to insure a smooth transfer from the incline to horizontal plane. Inclines are easily adjusted up to 30°. This conveyor can also be used as a booster conveyor in gravity flow systems.

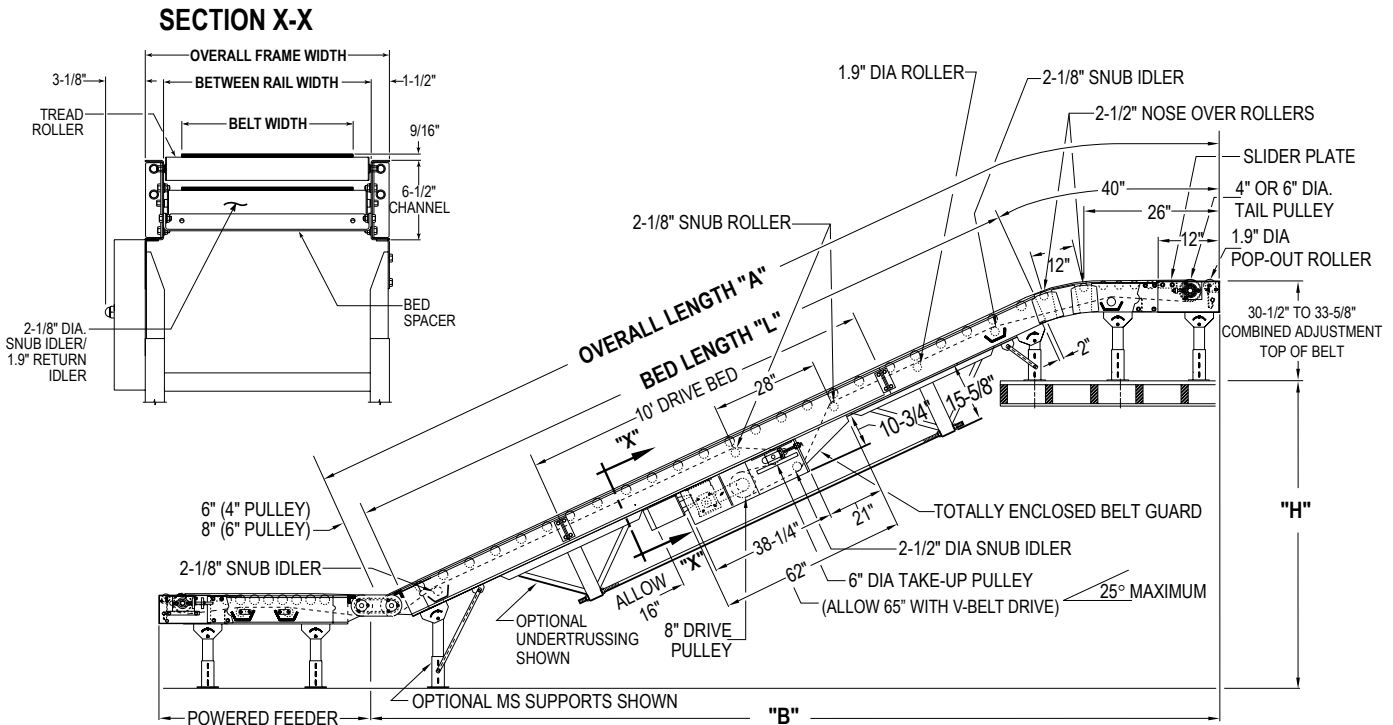
- 12 Belt Widths
- Center Drive
- Reversible
- Brake Motor
- System Ends
- Double Nose-over
- Pop-out Roller
- Powered Feeder
- Ceiling Hangers Available
- Adjustable MS-Type Floor Supports Available
- Undertrussing (18", 24", & 30" OAW From Stockyard Only)



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 | | | | | | | | SIZE TO ORDER Overall Length "A" 6" Dia. Pulley | | | | | |
|---|----------------|-----------|--|--------------------|------|------|------|------|------|------|------|---|------|------|------|------|------|
| | | | | Belt Width | | | | | | | | | | | | | |
| | | | | 13" | 15" | 17" | 19" | 21" | 23" | 25" | 27" | | 31" | 33" | 37" | 39" | |
| | | | | | | | | | | | | | 24" | 28" | 30" | 34" | 36" |
| | | | | | | | | | | | | | 30" | 34" | 36" | 40" | 42" |
| 13'-10" | 10' | 12'-8" | 4'-11" | | 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" | Weights (LBS.) | 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.



• STANDARD SPECIFICATIONS

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 ½ 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 ¾ 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 ¾ in. dia. shaft at bearings, machine crowned.

TAKE-UP PULLEY—4 6 in. dia. with 1 ¾ 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 ½ in. dia. or 2 ¼ 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 ½" |
| 15" | 12" | 18" | |
| 17" | 14" | 20" | |
| 19" | 16" | 22" | 50 ½" |
| 21" | 18" | 24" | |
| 23" | 20" | 26" | |
| 25" | 22" | 28" | |
| 27" | 24" | 30" | 67 ½" |
| 31" | 28" | 34" | 79 ½" |
| 33" | 30" | 36" | |
| 37" | 34" | 40" | 91 ½" |
| 39" | 36" | 42" | |

| 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 ¾ in. dia. shaft at bearings in place of 4 in. when not furnished as standard.

CEILING HANGERS—½ 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.