

TA

Horizontal Belt Conveyor

A very versatile conveyor, the Model TA can be used in many types of material handling situations such as assembly line operations, sorting, packing, and inspection. Conveyor sets up quickly and easily to save on installation time.

- 10 Belt Widths
- Reversible (with center drive)
- Smooth, Slim Bed
- Adjustable MS-Type Floor Supports Available



Conveyor shown with optional floor supports.

| SIZE TO ORDER Overall Length "A" | Bed Length "L" | Overall Length with Center Drive | Drive Pulley | Belt Width | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" | 26" | 30" |
|-------------------------------------|----------------|----------------------------------|--------------|----------------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | Bed Width | 10" | 12" | 14" | 16" | 18" | 20" | 22" | 24" | 28" | 30" | 34" |
| 6' | 5' | 6' | 4" Dia. | WEIGHTS (Lbs.) | 239 | 252 | 262 | 272 | 282 | 305 | 315 | 343 | 366 | 374 | 389 |
| 11' | 10' | 11' | | | 271 | 286 | 300 | 314 | 328 | 368 | 382 | 397 | 422 | 431 | 447 |
| 16' | 15' | 16' | | | 324 | 343 | 362 | 380 | 398 | 456 | 475 | 494 | 528 | 540 | 562 |
| 21' | 20' | 21' | | | 354 | 377 | 400 | 422 | 444 | 519 | 542 | 565 | 607 | 621 | 649 |
| 26' | 25' | 26' | | | 406 | 434 | 461 | 488 | 514 | 607 | 635 | 662 | 713 | 730 | 764 |
| 31' | 30' | 31' | | | 436 | 468 | 499 | 530 | 560 | 670 | 702 | 733 | 792 | 812 | 851 |
| 36' | 35' | 36' | | | 488 | 525 | 560 | 596 | 630 | 758 | 795 | 830 | 898 | 921 | 966 |
| 41' | 40' | 41' | | | 519 | 559 | 599 | 638 | 677 | 821 | 862 | 901 | 977 | 1002 | 1053 |
| 46' | 45' | 46' | | | 570 | 616 | 660 | 704 | 747 | 909 | 955 | 998 | 1083 | 1112 | 1168 |
| 51' | 50' | 51' | | | 605 | 655 | 704 | 753 | 801 | 982 | 1032 | 1081 | 1176 | 1208 | 1271 |
| 56'-11" | 55' | 56' | 8" Dia. | WEIGHTS (Lbs.) | 652 | 712 | 795 | 819 | 871 | 1070 | 1125 | 1178 | 1282 | 1317 | 1386 |
| 61'-11" | 60' | 61' | | | 688 | 746 | 804 | 861 | 918 | 1133 | 1192 | 1249 | 1351 | 1385 | 1453 |
| 66'-11" | 65' | 66' | | | 734 | 803 | 865 | 927 | 988 | 1221 | 1285 | 1346 | 1457 | 1494 | 1568 |
| 71'-11" | 70' | 71' | | | 772 | 839 | 905 | 971 | 1036 | 1287 | 1364 | 1420 | 1549 | 1589 | 1678 |
| 76'-11" | 75' | 76' | | | 816 | 896 | 966 | 1037 | 1106 | 1375 | 1457 | 1517 | 1655 | 1701 | 1793 |
| 81'-11" | 80' | 81' | | | 855 | 930 | 1005 | 1079 | 1153 | 1438 | 1514 | 1588 | 1734 | 1783 | 1880 |
| 86'-11" | 85' | 86' | | | 898 | 987 | 1066 | 1145 | 1223 | 1526 | 1607 | 1685 | 1840 | 1892 | 1995 |
| 91'-11" | 90' | 91' | | | 937 | 1021 | 1104 | 1187 | 1269 | 1589 | 1673 | 1756 | 1920 | 2139 | 2084 |
| 96'-11" | 95' | 96' | | | 980 | 1078 | 1165 | 1253 | 1339 | 1677 | 1766 | 1853 | 2026 | 2084 | 2199 |
| 101'-11" | 100' | 101' | | | 1020 | 1112 | 1204 | 1295 | 1386 | 1740 | 1833 | 1924 | 2105 | 2166 | 2286 |

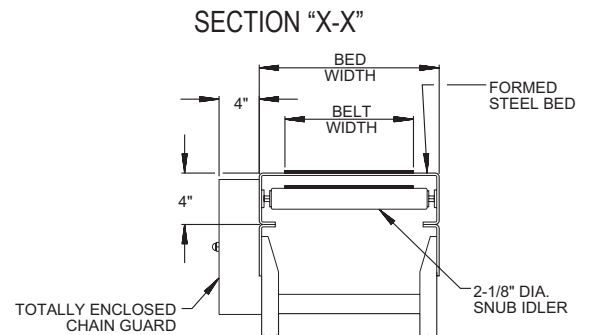
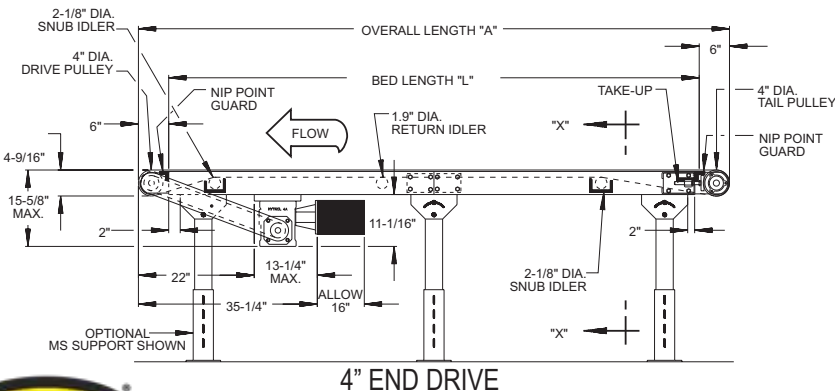
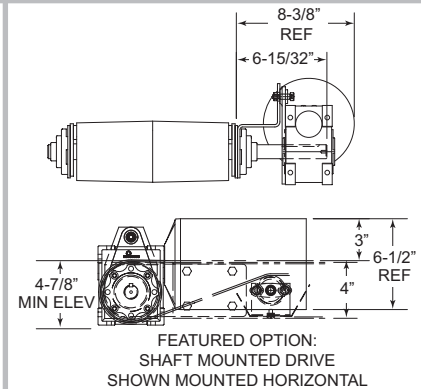
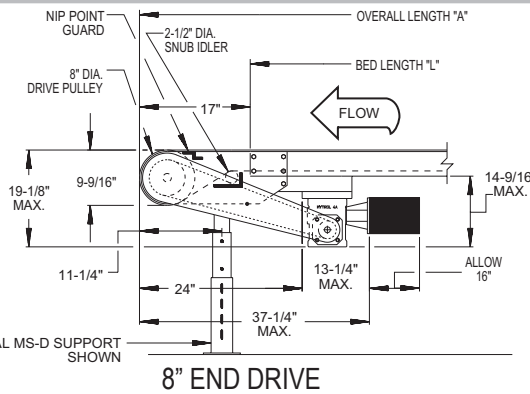
- NOTE:**
- All Standard Widths to be Offered in 1 ft. Length Increment.
 - All weights in catalog are conveyor weights only. Accessories, crating, etc., are not included.
 - 3 Day Delivery on 16", 18", 24" and 28". All other widths are 2 weeks.

SPEED CHART FOR SHAFT MOUNTED END DRIVE ON TA WITH 4 IN. DIA. DRIVE PULLEY

| SPEED FPM | MAX HP |
|-----------|--------|
| 34 | 1/2 |
| 41 | 1/2 |
| 52 | 1/2 |
| 68 | 1 |
| 82 | 1 |
| 103 | 1 |
| 138 | 1 |
| 206 | 1 |
| 274 | 1 |
| 412 | 1 |



Conveyor shown with featured option - shaft mounted end drive



• STANDARD SPECIFICATIONS

BELT—Ultimate 140 BBS—Nitrile.

BED—4 in. deep x 12 ga. formed steel slider bed- powder painted. Standard 5 ft. & 10 ft. long sections bolt together with splice plates.

END DRIVE—Located on discharge end of conveyor, chain guard on left hand side.

DRIVE PULLEY—4 in. dia. with 1 in. dia. shaft at bearings or 8 in. dia. with 1 3/8 in. dia. shaft at bearings, machine crowned and fully lagged. See chart.

TAIL PULLEY—4 in. dia. with 1 in. dia. shaft at bearings, machine crowned.

SNUB IDLER—Adjustable 2 1/8 in. dia. for 4 in. pulley—2 1/2 in. dia. for 8 in. pulley. Pre-lubricated ball bearings. Guards included.

RETURN IDLER—Adjustable 1.9 in. dia. pre-lubricated ball bearings.

TAKE-UP—Take-ups at tail pulley. Provides 4 in. of belt take-up.

BEARINGS—Sealed, pre-lubricated, self-aligning, ball bearings on drive and tail pulleys.

SPEED REDUCTION—Sealed worm gear C-Face speed reducer. No. 50 roller chain to drive pulley.

MOTOR—1/2 HP—208/230/460V/575—3 Ph.—60 Hz. Totally Enclosed C-Face.

BELT SPEED—Constant 65 FPM.

CAPACITY—Maximum load per linear foot of conveyor 75 lbs. NOT TO EXCEED capacity in charts.

FLOOR SUPPORTS—Now supplied as optional equipment.

| LOAD CAPACITY CHART @ 65 FPM W/STANDARD BELT | | | | | | | | |
|--|----------------|----------------------|-----|-----|-----|----------------------|-----|------|
| HP | BELT WIDTHS TO | LENGTHS UP TO | | | | | | |
| | | 4" Dia. Drive Pulley | | | | 8" Dia. Drive Pulley | | |
| | | 11' | 21' | 31' | 41' | 51' | 77' | 102' |
| DISTRIBUTED LOAD (LBS.) | | | | | | | | |
| 1/2 | 6"-16" | 335 | 320 | 310 | 300 | 285 | 260 | 230 |
| | 18"-28" | 320 | 300 | 285 | 270 | 255 | 210 | 170 |
| 1 | 6"-16" | 650 | 635 | 625 | 615 | 605 | 625 | 595 |
| | 18"-30" | 635 | 620 | 600 | 585 | 570 | 580 | 540 |

| LOAD CAPACITY CHART 25° INCLINE @ 65 FPM W/HIGH GRIP BELT | | | | | | | |
|--|----------------|-------------------------|-----|-----|-----|-----|--|
| HP | BELT WIDTHS TO | LENGTHS UP TO | | | | | |
| | | 11' | 21' | 31' | 41' | 51' | |
| | | DISTRIBUTED LOAD (LBS.) | | | | | |
| 1/2 | 6"-16" | 155 | 145 | 135 | 125 | 110 | |
| | 18"-28" | 145 | 130 | 115 | 100 | 80 | |
| 1 | 6"-16" | 310 | 300 | 290 | 280 | 270 | |
| | 18"-30" | 305 | 285 | 270 | 255 | 240 | |

• 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.

BELT*—White Polymate 100 RMP-COS (cover one side), Black Trackmate 120 Roughtop with PVC cover, Brown Polymate Roughtop w/Nitrile cover, Black Trackmate 533 COS-PVC, Tan Glidetop, Pure Gum Rubber Roughtop. Incline units: Black Trackmate 120 High Grip Longitudinal Groove.

BELT SPEED*—Other constant and variable speeds. V-belt drive supplied under 17 FPM.

SHAFT MOUNTED END DRIVE—Motor reducer unit mounted on extended drive pulley shaft. Can be mounted with motor horizontal for 4 7/8 in. minimum elevation. Mounting bracket and torque arm allows for multiple mounting positions. 4 in. drive only. See chart page 5 for speeds.

OVERHEAD END DRIVE—Motor-reducer unit mounted 9 1/2 in. above belt. Other clearances available, specify. (Chain guard right hand side). Minimum elevation 6 in. with 4 in. drive, 10 in. with 8 in. drive.

SIDE MOUNTED END DRIVE—Motor-reducer unit mounted on left hand side of conveyor. Minimum elevation 7 in. with 4 in. drive, 10 in. with 8 in. drive.

CENTER DRIVE—Provides 16 in. of belt take-up. Minimum elevation 16 in. with 4 in. drive, 17 in. with 8 in. drive. Specify location. Minimum OAL without modification—66 in. with 4 in. drive, 66 in. with 8 in. drive. Belt width is 6 in. less than bed width.

LOW ELEVATION SIDE MOUNTED CENTER DRIVE—Motor-reducer unit mounted to side of conveyor. Minimum elevation 13 1/2 in. with 4 in. or 8 in. drive. Belt width is 6 in. less than bed width.

STACKED END DRIVE—Minimum elevation 27 3/4 in. with V-belt drive, 33 3/4 in. with C-Face drive.

V-BELT DRIVE—V-Belt supplied between motor and reducer. Minimum overall drive width 14 in. Allow 65 in.

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

UNDERSIDE TAKE-UP—Provides 16 in. of belt take-up. Extends down 13 1/8 in. from top of belt. Belt width is 6 in. less than bed width.

SIDE TABLES—Powder painted 14 ga. formed steel table, 10 in., 16 in., or 22 in. wide from side of bed. One or both sides.

GUARD RAILS—Universal adjustable universal channel, solid side guards, PC side guards with formed top. Fixed Channel overlapping, one direction (use with system ends only). Fixed Channel non-overlapping, reversing (use with system ends only).

NOSEOVER*—Adjustable, single (0° to 15°), double (0° to 30°).

LOWER POWERED FEEDER*—Chain type driven from tail pulley of inclined conveyor. Underside take-up required when end drive is used. MS-Type floor supports now supplied as optional equipment. 8 in. dia. drive recommended on conveyor when feeder exceeds 44 1/2 in. OAL—50 1/2 in. OAL with system end.

GRAVITY BRACKETS—Adjustable bars with 1 in. dia. pop-out transfer roller to attach wheel or 1 3/8 in. roller conveyor. Available 12 in. to 28 in. bed widths only.

BUTT COUPLINGS—Provides connection to SB, RB, LR, ACC, ACZ, ABEZ, 190-NSP, 190-NSPEZ, 1.9 in. & 2.0 in. gravity conveyors. Includes 1 in. dia. pop-out roller. Center drive or underside take-up recommended.

SYSTEM END ROLLER—12 in. long tail sections provide connection to SB, RB, LR, ACC, ACZ, ABEZ, 190-NSP, 190-NSPEZ, 1.9 in. & 2.0 in. gravity conveyors. Includes 1.9 in. dia. pop-out transfer roller. Belt width is 6 in. less than bed width. (Center drive or underside take-up required.) Not available on 10 in. bed.

PULLEYS—6 in. tail with 1 3/8 in. dia. shaft at bearings, or 8 in. drive with 1 3/8 in. dia. shaft at bearings.

CASTERS—See Accessory section.

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

CEILING HANGERS—3/8 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—One direction manual start switch, reverse drum switch, non-reversing and reversible magnetic starters, push button stations. AC variable frequency drive.

* **NOTE:** Capacity affected with these options.

