190-ACC

Horizontal Power Conveyor (Accumulating Type)

The simplest method ever devised for accumulating cartons, boxes, etc. Basic design eliminates complicated adjustments and allows a minimum 2% back pressure.

- 12 Bed Widths
- 2% Minimum Back Pressure
- Finger Tip Snub Roller Adjustment, No Tools Needed
- Reversible
- Adjustable MS-Type Floor Supports Available



| SIZE TO | Between Rail Width | 13" | 15" | 17" | 19" | 21" | 23" | 25" | 27" | 31" | 33" | 37" | 39" |
|--------------------------------|--|------|------|------|------|------|------|------|------|------|------|------|------|
| ORDER Overall Length "A" | Overall Frame Width | 16" | 18" | 20" | 22" | 24" | 26" | 28" | 30" | 34" | 36" | 40" | 42" |
| 5′ | | 231 | 238 | 252 | 263 | 277 | 289 | 299 | 314 | 337 | 350 | 375 | 387 |
| 10′ | | 370 | 384 | 410 | 429 | 455 | 477 | 495 | 522 | 564 | 588 | 633 | 655 |
| 15' | | 509 | 530 | 568 | 595 | 633 | 665 | 691 | 730 | 791 | 826 | 891 | 923 |
| 20' | | 648 | 676 | 726 | 761 | 811 | 853 | 887 | 938 | 1018 | 1064 | 1149 | 1191 |
| 25' | | 787 | 822 | 884 | 927 | 989 | 1041 | 1083 | 1146 | 1245 | 1302 | 1407 | 1459 |
| 30' | | 926 | 968 | 1042 | 1093 | 1167 | 1229 | 1279 | 1354 | 1472 | 1540 | 1665 | 1727 |
| 35' | WEIGHTS (Lbs.) Weights Based on 3" Roller Centers | 1065 | 1114 | 1200 | 1259 | 1345 | 1417 | 1475 | 1562 | 1699 | 1778 | 1923 | 1995 |
| 40' | | 1204 | 1260 | 1358 | 1425 | 1523 | 1605 | 1671 | 1770 | 1926 | 2016 | 2181 | 2263 |
| 45' | | 1343 | 1406 | 1516 | 1591 | 1701 | 1793 | 1867 | 1978 | 2153 | 2254 | 2439 | 2531 |
| 50' | | 1482 | 1552 | 1674 | 1757 | 1879 | 1981 | 2063 | 2186 | 2380 | 2492 | 2697 | 2799 |
| 55' | | 1621 | 1698 | 1832 | 1923 | 2057 | 2169 | 2259 | 2394 | 2607 | 2730 | 2955 | 3067 |
| 60' | | 1760 | 1844 | 1990 | 2089 | 2235 | 2357 | 2455 | 2602 | 2834 | 2968 | 3213 | 3335 |
| 65' | | 1899 | 1990 | 2148 | 2255 | 2413 | 2545 | 2651 | 2810 | 3061 | 3206 | 3471 | 3603 |
| 70′ | | 2038 | 2136 | 2306 | 2421 | 2591 | 2733 | 2847 | 3018 | 3288 | 3444 | 4503 | 3871 |
| 75' | | 2177 | 2282 | 2464 | 2587 | 2769 | 2921 | 3043 | 3226 | 3515 | 3682 | 3987 | 4139 |
| 80′ | | 2316 | 2428 | 2622 | 2753 | 2947 | 3109 | 3239 | 3434 | 3742 | 3920 | 4245 | 4407 |
| 85' | | 2455 | 2574 | 2780 | 2919 | 3125 | 3297 | 3435 | 3642 | 3969 | 4158 | 3503 | 4675 |
| 90' | | 2594 | 2720 | 2938 | 3085 | 3303 | 3485 | 3631 | 3850 | 4196 | 4396 | 4761 | 4943 |
| 95' | | 2733 | 2886 | 3096 | 3251 | 3481 | 3673 | 3827 | 4058 | 4423 | 4634 | 5019 | 5211 |
| 100′ | | 2872 | 3012 | 3254 | 3417 | 3659 | 3861 | 4023 | 4266 | 4650 | 4872 | 5277 | 5479 |
| All weights | All weights in catalog are conveyor weights only. Accessories, crating, etc., are not included | | | | | | | | | | | | |



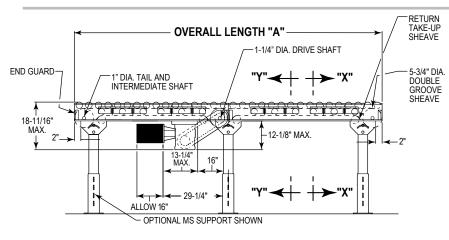
| SPEED CHART FOR SHAFT MOUNTED DRIVE ON 190ACC | | | | | | |
|---|-----------|----------------|--|--|--|--|
| SPEED FPM | MAX HP | MOTOR FRAME | | | | |
| 26 | 1/2 | 56C | | | | |
| 32 | 1 | 56C | | | | |
| 43 | 1 | 56C | | | | |
| 52 | 1 | 56C | | | | |
| 64 | 2 | 140TC | | | | |
| 86 | 2 | 140TC | | | | |
| 103 | 2 | 140TC | | | | |
| 129 | 2 | 140TC | | | | |
| *172 | 2 | 140TC | | | | |
| *257 | 2 | 140TC | | | | |
| *343 | 2 | 140TC | | | | |

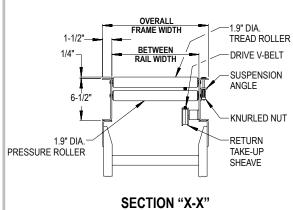
All weights in catalog are conveyor weights only. Accessories, crating, etc., are not included.

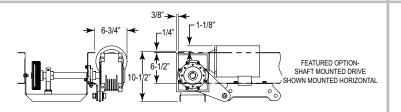
NOTE: Stockyard drives are located on 10 ft beds only.

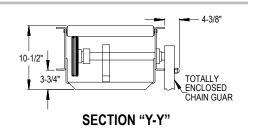
NOTE: 16", 20", 22", 26", 28", 34", 36", 40" & 42" Overall Frame Widths - 1 Week Stockyard

NOTE: Intermediate bed sections are available in multiples of 4 ft., 5 ft., 6 ft., 7 ½ ft., 8 ft., and 10 ft lengths only.











STANDARD SPECIFICATIONS

190-ACC

BED—Roller bed with 1.9 in. dia. roller x 16 ga. galvanized tube spaced every 3 in. and 1.9 in. dia. pressure rollers x 16 ga. galvanized tube spaced every 6 in. Mounted in 6 $\frac{1}{2}$ in. x 12 ga. powder painted formed steel channel frame bolted together with butt couplings.

CROSS BRACING—Rods with turnbuckles are fastened to underside of bed to provide proper alignment of bed rollers and insure tracking. (1) supplied in first 50' of bed section lengths and (1) per 50' of bed section length thereafter. Supplied in approximate center of lengths.

DRIVE—Mounted underneath, placed near center of conveyor.

DRIVE BELT—Endless B-section aramid core V-Belt drives each section of conveyor.

RETURN TAKE-UP SHEAVE–3 % in. dia. x % bore flat idler has seven position adjustment to maintain proper V-belt tension.

BEARINGS—Tread & pressure rollers have pre-lubricated ball bearings. Flange and pillow block bearings are sealed, pre-lubricated with eccentric lock collar.

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 25 - 120 FPM.

CAPACITY—Maximum load per linear foot of conveyor 150 lbs. NOT TO EXCEED capacity in chart.

FLOOR SUPPORTS—Now supplied as optional equipment.

HOW IT WORKS

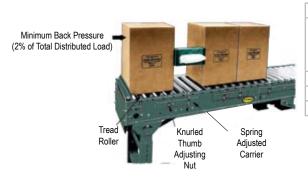
The driving of the tread rollers on the HYTROL minimum pressure conveyor is accomplished with the top surface of a standard section endless flat belt. The strength and wear qualities of the tread rollers and this belt have been thoroughly tested for continuous duty.

To maintain the driving of the tread roller, the pressure roller is mounted in spring adjusted carriers (See Photo) which sense the required driving friction regardless of the length of accumulated load. This pressure can be maintained constantly to give a 2% minimum back pressure in either a forward or reverse direction.

In the event of extreme changes in unit load (weight of box or package), convenient knurled thumb adjusting nuts can be turned to accept this heavier load.

This method eliminates the need for selecting proper tension spring holes in trigger mechanisms or jogging cleats on driving belt and eccentric (off center) tread rollers.

By maintaining a constant minimum pressure on the tread rollers, long loads may be conveyed, accumulated or stopped on the conveyor at any point using very little motor horsepower and giving practically no pressure between boxes or packages.



| LOAD CAPACITY CHART @ 65 FPM | | | | | | | |
|------------------------------|------------------------------------|---------------------------------|------------------------------------|--|--|--|--|
| HP - | OVERALL FRAME WIDTHS 16" to 22" | OVERALL FRAME WIDTHS 24" to 30" | OVERALL FRAME WIDTHS 34" to 42" | | | | |
| | TOTAL LOAD (Lbs.) UP TO 100' | TOTAL LOAD (Lbs.) UP TO 100' | TOTAL LOAD (Lbs.) UP TO 100' | | | | |
| 1/2 | 1000 | 800 | 500 | | | | |
| 1 | 2400 | 2200 | 2000 | | | | |
| 2 | 3500 | 3000 | 2600 | | | | |

Conveyor shown with optional floor supports

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 speeds from 25 to 120 FPM. V-belt drive supplied under 56 FPM (with 1 HP). **NOTE**: Capacity and accumulation feature affected with speed change.

SHAFT MOUNTED DRIVE – Motor reducer unit mounted on extended drive shaft. Can be mounted with standard sheave retainer for 10 $\frac{1}{2}$ in. elevation (motor horizontal), or can be mounted with low elevation sheave retainer for 8 $\frac{3}{4}$ in. elevation (motor vertical). Mounting bracket and torque arm allows for multiple mounting positions. See above chart for speeds.

SIDE MOUNTED DRIVE—Motor reducer unit mounted to side of conveyor. Elevation 10 $\frac{1}{2}$ in. with standard sheave retainer. 9 $\frac{1}{2}$ in. elevation at drive, 8 $\frac{1}{2}$ in. elevation at intermediate when low elevation sheave retainer used.

V-BELT DRIVE-V-belt supplied between motor and reducer.

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

PACKAGE STOPS—Roller or pin type stops available.

GUARD RAILS—Adjustable Universal Channel Guard Rail, fixed channel, type A & B angle. (See Accessory section.) **NOTE**: If product comes in contact with guard rails, product flow will be affected. Fixed channel overlapping, one direction. Fixed channel non-overlapping, reversing.

ROLLER CENTERS—Tread rollers spaced every 2 in. and 4 in. (NOT AVAILABLE in 7 ft. 6 in. bed).

SPRING BALANCED GATE – See 190-E24G powered or gravity die spring balanced gate.

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

CEILING HANGERS—% 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.

