

Standard Specifications

BELT—6 in. Ultimate 140 SD (Nitrile, impregnated with a thin polyurethane top). Clipper unibar lacing.

BED—Roller bed with 1.9 in. dia. roller x 16 ga. galvanized tube spaced every 3 in. Mounted in 6-1/2 in. x 12 ga. powder painted formed steel channel frame bolted together with butt coupling.

CROSS BRACING—Rods with turnbuckle are fastened to underside of bed to provide proper alignment of bed rollers and insure correct product tracking. Supplied on every other section 30 ft. bed lengths and over.

CENTER DRIVE—Can be placed in any section of conveyor 5 ft. or longer.

DRIVE PULLEY—8 in. dia. with 1-3/16 in. dia. shaft at bearings, machine crowned.

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

TAKE-UP PULLEY—4 in. dia. with 1 in. dia. at shaft bearings, machine crowned.

SNUB IDLER—Adjustable 2-1/2 in. dia. pre-lubricated ball bearings.

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

TAKE-UP—Take-ups in center drive. Provides 16 in. of belt take-up.

BEARINGS—Sealed, pre-lubricated, self-aligning, ball bearings on drive and tail pulleys. Pre-lubricated ball bearings in tread and pressure rollers.

EZLogic® Accumulation System

Hytrol's EZLogic®, or "Electronic Zero-pressure Logic" Accumulation System, combines the sensing accuracy of photo-electronics with discrete electronic logic control without the use of a PLC or pneumatic logic components. The EZLogic® Accumulation System provides many features including:

Zero-pressure accumulation of product

Zone Stop function is built in! Any zone may be transformed into a workstation by connecting the EZLogic® Accumulation Module to any dry contact type switching device. The feature is always used at the **discharge end** of the conveyor line, and may be used at any other location where a zone stop is required.

Built-in enhanced "Slug Mode" features allow product to be transported on the conveyor **without separation**, even when the conveyor is in accumulation mode! Product may be slug released from the conveyor with the same ease as singulation release. Jams on the conveyor automatically activate accumulation even during slug release, preventing product pile-up.

Sleep Mode stops tread rollers from turning when no product is present, reducing noise and extending roller bearing life.

ACCUMULATION ZONES—24 in. long air controlled. Includes 4 brake rollers to stop package. (See **Note** opposite page). Power supply must be located in the center - maximum 50 zones per power supply.

EZLogic® ACCUMULATION MODULE—Located in each zone. (Retroreflective). UL and CSA approved.

AIR REQUIREMENTS—Recommended working pressure 40 P.S.I. Free air consumption at 40 P.S.I.—.0062 cu. ft. per sensor actuation.

FILTER, REGULATOR—One filter/regulator is supplied for the main air supply line. (3/8 inch NPT port). An additional filter/regulator kit (B-12707) is recommended in applications where it is necessary to frequently slug more than 25 zones and the zone response time is critical. Main air from compressor should be supplied to each filter/regulator.

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

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

POWER SUPPLY—27 VDC, 4 amp Power Supply located near center of conveyor. Maximum of 50 zones per power supply (25 each side of power supply). Requires 120 VAC input.

CONVEYING SPEED—Constant 65 FPM.

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

FLOOR SUPPORTS—Now supplied as optional equipment.

LOAD CAPACITY CHART (Accumulated) @ 65 FPM						
HP	OVERALL FRAME WIDTH 18" TO 22"		OVERALL FRAME WIDTH 24" TO 30"		OVERALL FRAME WIDTH 34" TO 42"	
	TOTAL LOAD (LBS.)		TOTAL LOAD (LBS.)		TOTAL LOAD (LBS.)	
	UP TO 52'	UP TO 102'	UP TO 52'	UP TO 102'	UP TO 52'	UP TO 102'
1/2	2200	400	1200	—	—	—
3/4	4400	2600	3400	*1000	2200	—
1	6600	4800	5600	*3200	4400	—
1 1/2	*7800	9200	*7800	7600	*7800	3800
2	*7800	12000	*7800	10400	*7800	6600

*Limited to 150 lbs. per foot

LOAD CAPACITY CHART (Live) @ 65 FPM						
HP	OVERALL FRAME WIDTH 18" TO 22"		OVERALL FRAME WIDTH 24" TO 30"		OVERALL FRAME WIDTH 34" TO 42"	
	TOTAL LOAD (LBS.)		TOTAL LOAD (LBS.)		TOTAL LOAD (LBS.)	
	UP TO 52'	UP TO 102'	UP TO 52'	UP TO 102'	UP TO 52'	UP TO 102'
1/2	1100	200	600	—	—	—
3/4	2200	1300	1700	500	1100	—
1	3300	2400	2800	1600	2200	—
1 1/2	5600	4600	5000	3800	4400	1900
2	7000	6000	6400	5200	5800	3300

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. FPM. V-belt drive supplied under 20 FPM. **NOTE: Capacity and accumulation feature affected with speed change.**

ACCUMULATION ZONES—12 in., 18 in., 30 in., & 36 in. long available. Frame lengths change with zone. (See **NOTE** opposite page.)

Note: 51 or more zones will require additional power supply and isolation cable.

HIGH PERFORMANCE UNDERSIDE CENTER DRIVE—Used on units over 100 ft long (used with 2 HP, 3 HP or 5 HP motor and reducers).

SIDE MOUNTED LOW ELEVATION CENTER DRIVE—Motor reducer unit mounted to side of conveyor. Minimum low elevation 15-1/4 in.

SIDE MOUNTED END DRIVE—Minimum elevation 12-1/2 in. (underside take-up required) adds 3 in. to OAL.

PRESSURE SWITCH—Installed in air line after regulator unit. Kills conveyor drive when air pressure drops below minimum working requirements. Requires restart controller (not supplied).

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).

GUARD RAILS—Continuous adjustable channel. See Accessory section. **NOTE: If product comes into contact with Guard Rails, product flow will be affected.** Fixed channel overlapping-one direction.

PACKAGE STOPS—Angle and raised roller end stops.

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

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

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

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

EZ-Logic :

- **Diffuse type module** - 30" maximum range to 90% reflectance without obstruction. Range is adjustable through push button programming.
- **Zone stop connector cable** - Attaches to any zone module. It requires a "dry contact" type input signal. Closed for zone stop.
- **Slug mode control cable** - Attaches to discharge module micro connector. Requires "dry contact" type input signal. Closed for slug mode, open for singulate. Required only if user wishes to alternate between singulation mode and slug mode.
- **Power supply isolation cable** - Used when joining conveyors with separate power supplies.
- **Accumulation module with photo eye output** - Used to supply "dry contact" photo eye output or to accept a voltage type zone stop input.