

# PROSORT SC1 & SC2

Belted Pivot Wheel Sortation Conveyor

The ProSort SC series of sorters are belt-driven sortation conveyors. The belt concept provides a reliable method of tracking packages to the divert stations. Take-away spurs may be skatewheel-type or powered-type slaved from the main sorter.

- 4 Belt Widths
- Right-Hand, Left-Hand, or Two-Sided Diverts Available
- Adjustable MS-Type Floor Supports Available



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[TECHNICAL MANUAL](#)

| Overall Width "OAW" | Between Rail Width "BR" | Belt Width | Minimum Divert Centers | Slaved Spur Length | Base Weight | Conveyor Weight Per Foot | Diverter Weight | Slaved Spur Weight | Gearmotor Wt. |      |
|---------------------|-------------------------|------------|------------------------|--------------------|-------------|--------------------------|-----------------|--------------------|---------------|------|
|                     |                         |            |                        |                    |             |                          |                 |                    | HP            | lbs. |
| 18"                 | 15"                     | 12"        | 42"                    | 57"                | 480         | 21                       | 300             | 115                | 3             | 100  |
| 24"                 | 21"                     | 18"        | 54"                    | 57"                | 570         | 23                       | 365             | 130                | 5             | 126  |
| 30"                 | 27"                     | 24"        | 66"                    | 57"                | 660         | 26                       | 430             | 140                | 7.5           | 152  |
| 36"                 | 33"                     | 30"        | 78"                    | 69"                | 750         | 29                       | 495             | 175                | 10            | 192  |

Note: To calculate conveyor weight use the following formula:

Total Weight = Base weight + Gearmotor weight + (Conveyor weight per foot x Overall Length) + (Diverter weight x Number of diverters) + (Slaved spur weight x Number of slaved spurs)

## Standard Specifications - Diverter

**CAPACITY** – Maximum unit package weight: 75 lbs.

**PACKAGE SIZE** – Minimum: 6 in. wide x 9 in. long. Note: Small packages must not be top heavy.

**DIVERTER MECHANISM** – Two banks of twin pivoting 3 1/8 in. dia. wheels with urethane treads driven by 3/8 in. dia. urethane belts. Double sided diverters not available on 18 in. OAW.

**AIR CYLINDER** – 32mm dia. bore x 7/8 in. stroke double acting. Dual cylinder for two-sided diverters.

**AIR REQUIREMENTS** – Working pressure 30 to 40 PSI depending on width. Free air consumption at 40 PSI, .024 cu. ft. per cycle.

**AIR VALVE** – 24VDC single solenoid 4-way air valve, two per single-sided diverter, four per double-sided diverter.

**AIR FILTER/REGULATOR** – Supplied for main air supply line with 1/2 in. NPT ports. Required working pressure 30 to 40 PSI.

**DRIVE** – Slave driven from main belt conveyor.

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## Standard Specifications

**BELT** – Ultimate 140 BBS-Nitrile.

**BED** – Roller bed with 1.9 in. dia.x 16 ga. galvanized rollers with ABEC-1 bearings spaced every 3 in. Mounted in 6 1/2 in.x 12 ga. powder-painted formed steel channel frame, bolted together with splice plates.

**DRIVE PULLEY** – 8 in. dia. with 1 11/16 in. dia. shaft at bearings; machine crowned and fully lagged.

**INFEED TAIL PULLEY** – 3 1/4 in. dia. drop-in pulley; machine-crowned.

**DISCHARGE TAIL PULLEY** – 6 in. dia. with 1 7/16 in. dia shaft at bearings; machine crowned.

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

**RETURN IDLER** – Adjustable 2 1/2 in. dia. pre-lubricated ball bearings.

**TAKE-UP PULLEY** – 6 in. dia. with 1 7/16 in. dia. shaft at bearings; machine crowned.

**TAKE-UP** – Take-up in center drive provides 15 in. (heavy-duty drive) or 36 in. (high-performance drive) of belt take-up.

**PNEUMATIC TENSIONER** – Provides constant belt tension on high-performance drives. Supplied with regulator for 12-15 PSI.

## Standard Specifications - Powered Spur

**BED** – Roller bed with 1.9 in. dia.x 16 ga. galvanized rollers with ABEC-1 bearings and plastisol coating in spur area spaced every 3 in. Mounted in 6 1/2 in.x 12 ga. powder-painted formed steel channel frame.

**DRIVE** – Slave-driven from main sorter conveyor.

**CONVEYING SPEED** – Matched to main sorter conveyor.

**BEARINGS** – Sealed, pre-lubricated, self-aligning ball bearings with eccentric lock collars. Pre-lubricated ball bearings in tread rollers.

**DRIVE** – Heavy-duty (1 to 3 diverts and less than 30 ft. OAL) or high-performance center drive, located at discharge end. Shaft-mounted gearmotor and variable speed controller, 230V or 460V, 3Ph. 60 Hz. Horsepower based on speed and length requirements.

**TRACKING ENCODER** – Provided on take-up pulley shaft. Contact factory for encoder specifications.

**BELT SPEED** – Determined by application requirements. 300 FPM maximum.

**CAPACITY** – Maximum unit package weight: 75 lbs. Maximum distributed load of 4000 lbs. Maximum conveyor length is 150 ft.

**MAXIMUM NUMBER OF DIVERTERS** – Double-sided with slaved spurs: 7 diverters (plus one positioning diverter). Single-sided with slaved spurs: 9 diverters. Single- or double-sided with non-slaved spurs: 12 diverters.

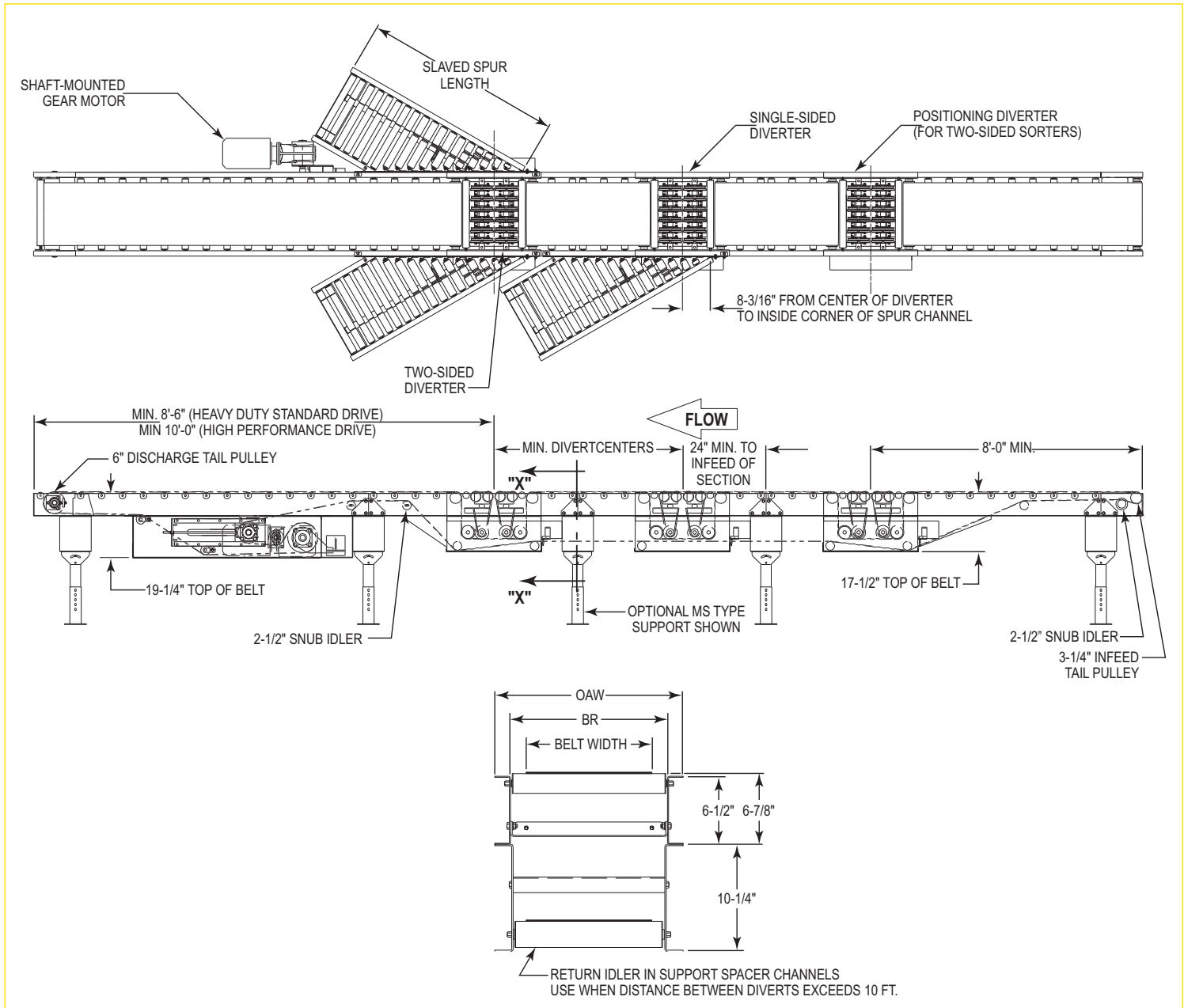
**FLOOR SUPPORTS** – Supplied as optional equipment.

**MOUNTING BRACKET** – Bracket is supplied to attach spur to side channels of ProSort SC.

**BUTT COUPLINGS** – Standard for connecting 190 ACC, 190 LRC, 190 ACZ, 190 LR, or gravity conveyors.

**FLOOR SUPPORTS** – Supplied as optional equipment.

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## 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.

**TAKE AWAY LINES** – Gravity spurs are available. Consult factory for recommendation of type and configuration.

**GUARD RAILS** – Adjustable channel and fixed channel types available.

**BELT SKIRTS** – Hide return belt.

**UNDERSIDE COVER** – Attach to belt skirts to cover belt on underside of sorter.

**PROLOGIX® SC CONTROL PACKAGE** – Provides complete controls for proper sorter operation. Contact factory for details.

**POSITIONING DIVERTER** – Diverter used at infeed of two-sided sorters to position packages for proper diverting.