

# PROSORT 1400 SERIES

Hytrol's ProSort 1400 family of sorters is specifically designed to handle high-speed applications of larger packages where product diverting needs to be both positive and gentle. Dual-sided diverts offer positive diverting from both left- and right-hand sides.

## NEW TO THE 1400 SERIES

- Break-away shoe design
- Heavy-duty chain cover
- Electric solenoid switch
- Aluminum extruded chain rail
- High-visibility side channels

## MODEL COMPARISON

	1421	1431
Divert angle	Sorts products at a 22 degree angle	Sorts products at a 30 degree angle
Speed	Up to 650 fpm	Up to 350 fpm
Max. product weight	100 lbs.	100 lbs.
Max. product weight	50 lbs. per ft.	50 lbs. per ft.
Min. product size	9" x 4"	9" x 4"

The ProSort 1422 and 1432 offer dual-sided sortation.

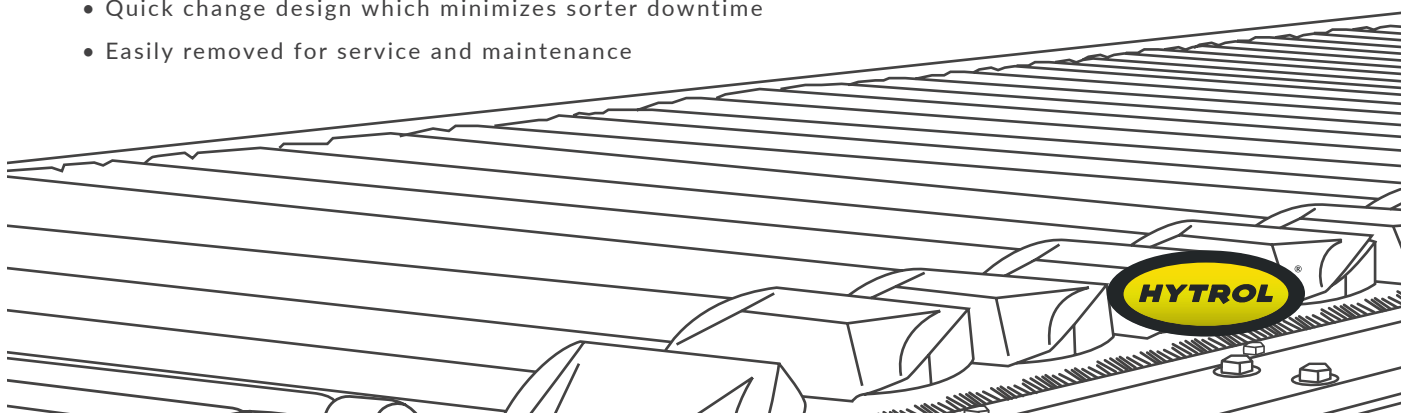
## HIGHLIGHTS

- High sort rates
- Continuous polyurethane bearing track
- 2 optional divert switches (pneumatic or electric)
- Plug-N-Go® wiring
- High-efficiency gearmotor
- ProLogix® & ProLogix Plus controls
- Minimum gap anodized aluminum slat
- Wrap-around shoe design
- Capable of 650 fpm
- Sealed lubricated carrying chain
- Integrated induction conveyor

## FEATURES & BENEFITS

### DIVERT SWITCH

- Optional divert angles: 22 degree and 30 degree
- 2 high-speed divert switches
  - Pneumatic, using RPT technology
  - Electric, using solenoid technology
- Rubber isolators for quiet operation and ease of maintenance
- Quick change design which minimizes sorter downtime
- Easily removed for service and maintenance



## PROLOGIX CONTROLS

## PROSORT 1400 SERIES

- Programmable logic controls package from induction point through divert confirmation including sorter diagnostics
- Plug-N-Go wiring for simple, quick, and trouble-free installation

## FLIGHT ASSEMBLY

- Anodized aluminum slat design
  - Provides product support and full coverage
  - Minimal gaps
  - Simple slat-to-chain installation
- Divert shoes
  - Break-away shoe allows closer product gapping
  - Low-friction, molded shoe with high-friction pusher face
  - Steel guide pin for switching
  - Ball bearing cam follower for diverting
  - Wrap-around design
  - Jam resistant shoe design for tight spacing resulting in increased carton rate
- Carry chain
  - Dual strands of No. 100 pre-lubricated o-ring roller chain equipped with precision bearings and extended pins
  - Runs on a continuous polyurethane bearing track for low horsepower requirements, high speed, and long life

## DRIVE

- Shaft-mounted gearmotor mounted at the discharge end on the opposite side of diverts.
  - High-efficiency gearmotor
  - 230/460 V-3 phase 60 hertz
  - Keyless design
  - Variable speed controller provides a range of speeds to meet current demand
  - Capable of lengths up to 650 ft.

## INTEGRATED INDUCTION CONVEYOR

- Auto-tracked belt directly driven from sorter at same speed
  - Consistency in feeding sorter
  - Accurate product induction

## CHAIN COVER AND DIVERT RAILS

- 10 ga. steel cover for slat hold down
- Aluminum extruded chain support rails provide quick bed alignment
- Aluminum extrusion divert rails with slide-in ultra-high molecular weight cushion for smooth diverting

