



## Hilmot Series 1000 MDR Wheel Divert Modules

Hilmot's divert modules are offered in tri-directional or bi-directional models. Two divert rates are available, low speed (20 cases per minute) or high speed (30 cases per minute). This module is 81" long and available in Hilmot's standard widths: 15", 21", 24", 27" and 30" widths. The internal divert mechanism has been cycle tested at 1 million cycles. The Hilmot design is not limited to a minimum between frame size. The 7-1/2" deep side channels on both the spur(s) and the bed continue the same Hilmot profile.. The cable trays are utilized for routing wire within the bed frame. Tri-directional modules have two 30° spurs mounted one on each side. Bi-directional modules have one 30° spur mounted in either the right hand (RH) or left hand (LH) divert position. Drive rollers are grooved to accept hi tensioned urethane O-rings to transmit the torque to the idler rollers that complete the zone length. The idler rollers are made with flow coat galvanized tubing. Consult the Customer Support Department for price and delivery.

1. Built-in photo eye, one per zone
2. Pre-wired, networked with bus technology
3. Motorized rollers 24VDC brushless, geared or gearless
4. Shroud or fascia
5. PLC- or PC-based control or platform
6. Precision bearings in the idler rollers





### Safety

- Hilmot MDR conveyor operates at Low Voltage 24 VDC.
- The Hilmot MDR standard power source to our 24 VDC power supply is 480 VAC Other options are available.
- The Hilmot MDR allows an operator to work in an environment with no major pinch points.
- The Hilmot MDR produces enough torque to easily convey a 100lb product and the rollers can still be stopped by hand.
- The Hilmot MDR is measured in tangential force instead of belt or chain pull.
- The Hilmot MDR weighs less due to the absence of a drive unit allowing for ease of installation

### Maintenance

- The Hilmot MDR conveyor is relatively maintenance free. Less change out due to the quick replacement of drive rollers and accompanying components.
- The Hilmot MDR conveyor doesn't require change out of motors, gearboxes, and belts.
- Lifetime lubrication of motor driven rollers ensures long life and maintenance free operation.
- The Hilmot non driven rollers include (ABEC rated bearings for longer life.
- The Hilmot MDR Long-Life 3/16" HT blue belt 85A for boxes up to 109 lbs. ensures long life and maintenance free operation.

### Installation

- The Hilmot MDR modular design allows for ease of initial installation.
- The modules allow for ease of future modification and or layout changes.
- Roller speeds are variable allowing for simple field modifications during the installation start up/ run off phase of the project.
- Plug and play wiring options for simplifying the electrical field installation.

### Spare Parts

- Due to the reliability of The Hilmot MDR conveyor, less spare parts are required over the life of the system.
- Longer equipment life due to the run as needed feature.
- Less parts required for inventory.

### Quieter Operation

- The Hilmot MDR conveyor operates at a 65-70dba noise level.
- The Hilmot MDR conveyor only runs when the photo eye senses that a product is present.
- The conveyor is not running when the eye is clear.
- Based on recent OSHA studies, high working environment noise can be directly related to an employee's health and job performance.
- The basic unit of sound is the decibel. The A weighted sound level—or dBA—is a good measure of sound detectable by the human ear. A busy office generates a sound level of about 60dBA. An increase of three dBA would be just noticeable, an increase of five dBA would be clearly noticeable and an increase of 10 dBA would be twice as loud because the decibel scale is logarithmic.

### Energy Cost Savings

- The Hilmot MDR conveyor only runs when the photo eye senses that a product is present.
- Based on operation requirements, rollers operate between 10–50% of operational time.
- Estimated energy savings range from 30%-70% of conventional conveyors that operate continuous.
- The Hilmot MDR energy cost savings increase as energy costs increase.

### Hilmot MDR Smart Control Card

8 inputs and 8 outputs allow the control of up to 8 zones of standard accumulation conveyor.



- Programmable with SuperLogic software.
- Communication via DeviceNet network.
- Polled messaging connection via DeviceNet Master allow I/O to be monitored and controlled remotely.
- Individual 24V DC power source for each input promotes efficient and modular wiring.
- Peer-to-Peer messaging for fast zone-to-zone interlock messages.
- Each power supply enclosure supplies power to 30 zones and are mounted and wired inside the Hilmot MDR NEMA 12 enclosure.

### Two Year Warranty

- Ask about our labor warranty program....