



HILMOT SERIES 4000 POWER ASSIST MDR CONVEYOR

Equipment Capacity: up to 3000lbs

Applications: Assembly, Transportation, Accumulation, Testing, Robotic interface, etc.

Manufacturing Types: Door, Window, Appliance, Motors, Generators, Engine, etc.



Hilmot MDR Transfer Car



Hilmot MDR Belt Transfer



Hilmot MDR Power Turn Table



Hilmot MDR Transfer Car with Power Turn Table

Advantages of our 24-volt MDR conveyor

- Modular design improves layout/easy to reconfigure
- Run on demand/less noise, wear, and energy
- Non-contact zero pressure/product protection
- Compact low profile/multi-level usage
- Reversible/less hardware required
- No scheduled maintenance/lower operating cost
- Improves working environment (quieter, safer, better ergonomics and cleaner operation)
- Lower power consumption
- Low voltage/safety and lower cost
- Simple installation/lower cost
- Soft start and stop/low G-forces
- Simplifies conveyor operations
- Improves material flow
- Variable speed/versatility to suit each requirement
- Choice of control level to meet needs and budget



HILMOT SERIES 4000 POWER ASSIST MDR HIGHLIGHTS

Safety

- Hilmot Power Assist MDR conveyor operates at Low Voltage 24 VDC.
- The Hilmot Power Assist MDR standard power source to our 24 VDC power supply is 115 VAC (Standard household current) Other options are available.
- The Hilmot Power Assist MDR allows an operator to work in an environment with no major pinch points.
- The Hilmot Power Assist MDR weighs less due to the absence of a drive unit allowing for ease of installation

Maintenance

- The Hilmot Power Assist MDR conveyor is relatively maintenance free. Less change out due to the quick replacement of drive rollers and accompanying components.
- The Hilmot Power Assist 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 Power Assist MDR uses Urethane coated rollers to power assist loads up to 3000 lbs. maintenance free operation.

Installation

- The Hilmot Power Assist 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 Power Assist 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....