

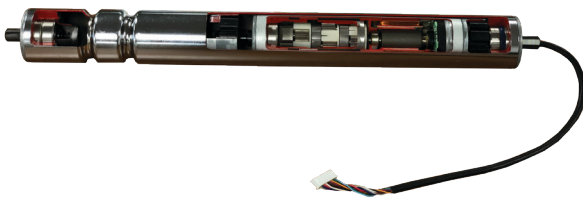


**MOTORIZED ROLLERS,  
CONTROLS AND MORE**

▶ **ITOH DENKI** was founded in 1946. We started out as a small shop repairing conventional motors and soldering tools. From these humble roots; we expanded into the design and sale of our own electric motors. In 1975, we developed the motorized conveyor roller. It consisted of a standard roller tube with our own electric motor and gear set inside. These units were AC powered. Today, we continue to pioneer the motor driven roller (MDR) market with our 24V Brushless DC Power Moller® 24.

The Power Moller® 24 provides a safe and energy efficient alternative to traditional conveyors powered by large electric motors. Our Power Moller® 24's can be used in virtually any application. In addition to our standard and high torque rollers, we have rollers that can be used in low temp. operations, belted applications, heavy duty pallet handling and wash-down areas.

## POPULAR 24V DC ROLLERS



### PM486FE-STANDARD TORQUE PM486FP- HIGH TORQUE

- 1.91" diameter
- 7/16" plain hex shaft: PM486FE
- 7/16 threaded hex shaft: PM486FP
- Spring loaded end for quick install and removal
- Zinc plated, carbon steel tube
- Dynamic braking standard
- Transports up to 400 lbs.
- Waterproof and low temp. options available



### PM635FS-STANDARD TORQUE PM635KE/KT- HIGH TORQUE

- 2.5" diameter
- Robust 11 gauge carbon steel tubing
- 11/16" threaded hex shaft standard
- Transports product up to 4000 lbs.
- Speeds up to 855 FPM
- Available with roller chain sprockets and poly V belt drive
- Easy retro-fit for existing pallet handling systems

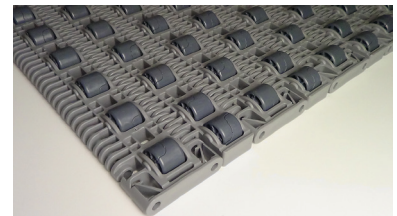


Intralox® patented MDR sprocket



### PM570KT

- 2.24" diameter
- High torque
- Splined aluminum tube
- IP64 enclosure
- Class E insulation
- .53" plain hex shaft standard
- Compatible with Intralox® sprocket and Intralox®
- Modular Plastic Belting



Modular Plastic Belting by Intralox®

# POPULAR MODULES



## F-RAT-NX75 (FLAT RIGHT ANGLE TRANSFER)

- Transfer speed: 60 m/min
- Weight Capacity: up to 110 lbs.
- Available in 15 sizes
- No pneumatics
- Energy efficient
- Powered by 24V DC MDR

## SLIDE OPEN GATE (SOG)

- Opens and closes to allow easy access for conveyor maintenance
- Putting two back to back will allow enough space for a forklift to pass
- Max load: 66 lbs.
- 9 sizes available
- Standard speed: 60m/min



## BALL SORTER

- Allows packages to be transferred at 30, 45 and 90 degrees
- No pneumatics
- Processing power: 4000-6000 totes/hr.
- Conveying speed: 120 m/min
- Transfer weight: up to 66 lbs.
- Powered by 24V DC MDR

## 2 ZONE

**IB-E03B**  
**IB-E04F**



**HBM-604B**



- Controls up to two Power Moller (brake and non-brake models)
- IB-E03B- 10 pin, 7 AMP  
IB-E04F- 12 pin, 10 AMP
- Two port Ethernet switch
- Life-cycle monitoring feature displays motor usage
- Connects to Ethernet/IP controllers (PLCs) through an I/O connection (implicit messaging)
- Configures easily in Studio 5000™ using available Add-On-Profile (AOP)
- Device-Level Ring (DLR) technology built in
- Ethernet/IP Conformance Tested™
- UL and cUL recognized component

- Controls up to two Power Moller (brake and non-brake models)
- Standard 10 pin connector
- Dynamic brake control
- Stable speed function to ensure articles of different weights travel at the same rate
- Flexible Zone Recognition (patented) to handle long articles which simultaneously block multiple sensors
- Logic for general Zero Pressure Accumulation (ZPA) control is built in
- UL and cUL recognized component

**EtherNet/IP™**



## SINGLE ZONE

**HB-510**  
**HB-510B (BRAKE CARD)**



**CB-016S7**

**CB-016BS7 (BRAKE CARD)**



- Controls up to two Power Moller (brake and non-brake models)
- Standard 9 pin connector on non-brake card
- Standard 10 pin connector on brake card
- Dynamic brake control
- Stable speed function to ensure articles of different weights travel at the same rate
- Flexible Zone Recognition (patented) to handle long articles which simultaneously block multiple sensors
- Logic for general Zero Pressure Accumulation (ZPA) control is built in

- Controls up to two Power Moller (brake and non-brake models)
- Standard 9 pin connector on non-brake card
- Standard 10 pin connector on brake card
- Direction control by on board DIP switch or external signal output.
- Variable speed control by one DIP switch combined with one rotary switch or by external voltage input up to 20 speeds
- Adjustable acceleration and deceleration time (0 to 2.5s)
- Stable speed function to ensure articles of different weights travel at the same rate
- UL and cUL recognized version available

Power Moller	CB-018N2	CB-016S7	CBK-109F	CBM-103F	CBM-105F	HBK-608F	HB-510	HBM-604	IB-E03B	IB-E04F	IB-E04F-CR-HT.1	CBL-402F
PM320HS	X											
PM486FE		X			X		X	X*	X*			
PM486FS		X			X		X	X*	X*			
PM486FP		X			X		X	X*	X*			
PM486FH			X							X	X	
PM427LS												X
PM380LS												X
PM635FS		X			X		X	X*	X*			
PM635KE				X								
PM635KT			X							X	X	
PM570KT			X							X	X	

\* Roller would need to have a BR option (if available), a Z060, Z100, Z200, or Z300 option, or external 9/10 pin extension cables would need to be purchased in order for the rollers to plug into these cards.