

SAVES ENERGY

VIRTUALLY SILENT

MODULAR COMPONENTS

REDUCED DOWNTIME

REDUCED MAINTENANCE

SAVES SPACE



WHY OMNI FLAT MOTOR DRIVEN ROLLER CONVEYOR? (FMDR)

- Saves Energy - "run on demand"
- Virtually Silent - band driven ABEC rollers with no gearbox noise
- Modular Components - only one motor to stock
- Reduced Downtime - long life brushless DC motor
- Reduced Maintenance - fewer mechanical components
- Saves Space - lower roller height and space for accessories
- Modular - pre-wired, full control package available

Flat Motor

- 2 bolts for easy removal
- Brushless DC motor



LOGIC CARD FEATURES

- Jam Protection
- "Sleep" Feature
- Long Zone Technology

THREE MODES OF OPERATION

- Singulation Mode
- ZIP Mode
- Transportation Mode

2 Card Options

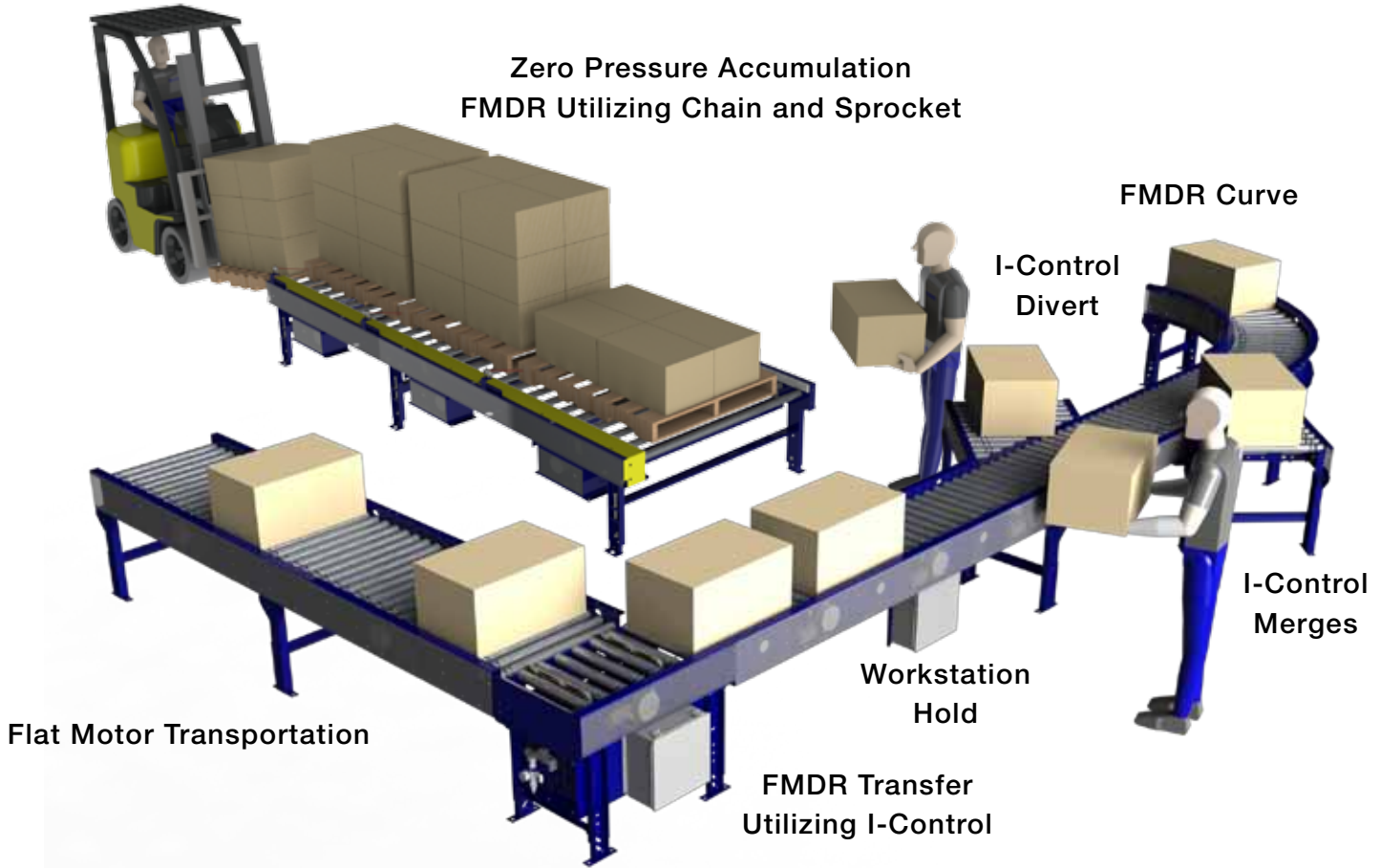


Zero Pressure Accumulation



Basic Card for Manual Control

FMDR APPLICATIONS UTILIZING UNIVERSAL CONTROL



UP TO 20 ZONES PER STANDARD 20 AMP POWER SUPPLY



TRANSPORTATION USING ULTRA BANDS

FEATURES

- Up to 10 feet per motor
- Up to 120 lbs. total live load capacity
- 3" roller centers (other centers available)
- Up to 200 FPM nominal with light loads and short zone lengths
- Timing photo eye for zone run/sleep (optional)



I-CONTROL FOR MERGES, DIVERTS AND TRANSFERS

- Standard program logic for merge, divert and transfers
- Programmable for special intersection requirements
- DeviceNet slave, EtherNet, Profibus slave, RS422/485, RS232 capable
- I/O capability - AC, DC-PNP/NPN, analog, high speed input, thermocouple, relay, up to 32 I/O points
- Low cost programming software for on site modifications
- 14 watts input power at 24VDC
- Four line text panel display for viewing messages and process data
- Timer, counter and process variables can be adjusted using front panel keys
- 5 front panel function keys for process or program interaction
- Handshaking with Universal Control devices via auxiliary I/O on the card
- NEMA 12 enclosure with terminal strip connection points for I/O
- Tool cabling to remote control device signals



MODULE SPECIFICATIONS

USER INTERFACE:

1. Motor Connection
2. Smart Input/Output (I/O)
3. DC Power Input Connector
4. Blown Fuse Indicator LED
5. Replaceable 10A Fuse
6. Potentiometer for Speed Control
7. Diagnostic LEDs
8. Function Control Switches
9. Sensor Connector
10. Downstream Cable Connection Jack
11. Upstream Cable Connection Jack
12. Mounting Plate/Heat-Sink
13. Cover



FLAT MOTOR ZPA MODULE

- Used for zoned accumulation via onboard logic
- Multiple modes of accumulation via DIP switch selection
- One module is required for each flat motor

FLAT MOTOR DRIVER MODULE

- Used for manually controlled zones via PLC or remote logic
- One module is required for each flat motor

CONVEYOR SPECIFICATIONS

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- 13" - 39" between frame
- 30 - 200 FPM speeds

DRIVE OPTIONS

- High tension bands
- Ultra bands
- Chain

ACCESSORIES

- Floor and ceiling supports
- Side guides
- Lexan side frame cover
- Power supplies
- Power distribution cables
- Alternate photoeyes and mountings

CONFIGURATIONS

- Straights
- Curves
- Spurs
- Transfers

Drive Type	Speed Range	Max. Zone Size	Capacity Range
High Tension Bands	30 - 200 FPM	48"	Up to 75 lbs.
Ultra Bands	30 - 200 FPM	120"	Up to 120 lbs.
Chain	10 - 40 FPM	144"	Up to 800 lbs.

Contact Omni for specific speeds and capacities available for your application.