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

Flatt 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
FEATURES
- Up to load capacity per zone
- 3” roller centers (other centers available)
- Up to 120 FPM
- 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

SPECIFICATIONS
- 9" - 39" between frame
- 30 - 120 FPM speeds

DRIVE OPTIONS
- High tension 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

<table>
<thead>
<tr>
<th>Drive Type</th>
<th>Speed Range</th>
<th>Max. Zone Size</th>
<th>Capacity Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Tension Bands</td>
<td>30 - 120 FPM</td>
<td>48&quot;</td>
<td>Up to 75 lbs.</td>
</tr>
<tr>
<td>Chain</td>
<td>10 - 40 FPM</td>
<td>78&quot;</td>
<td>Up to 600 lbs.</td>
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</tbody>
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Contact Omni for specific speeds and capacities available for your application.