# Omni Metalcraft corp



VIRTUALLY SILENT
MODULAR COMPONENTS
REDUCED DOWNTIME
REDUCED MAINTENANCE
SAVES SPACE



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# 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

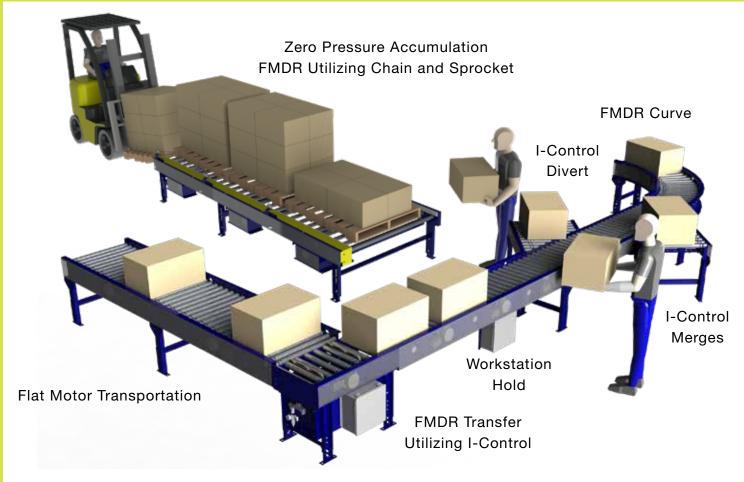




Zero Pressure Accumulation

Basic Card for Manual Control

# FMDR APPLICATIONS UTILIZING UNIVERSAL CONTROL



UP TO 20 ZONES PER STANDARD 20 AMP POWER SUPPLY

# **TRANSPORTATION**

# 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:**

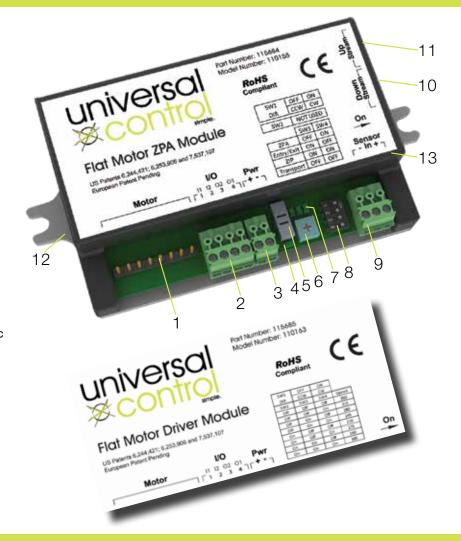
- 1. Motor Connection
- 2. Smart Input/Output (I/O)
- 3. DC Power Input Connector
- 4. Blown Fuse Indicator LED
- 5. Replaceable 10A Fuse
- 6. Potentiometer for Speed Control
- 7. Diagnostic LEDs
- 8. Function Control Switches
- 9. Sensor Connector
- 10. Downstream Cable Connection Jack
- 11. Upstream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

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- 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

**Transfers** 

- Spurs

Drive Type	Speed Range	Max. Zone Size	Capacity Range
High Tension Bands	30 - 120 FPM	48"	Up to 75 lbs.
Chain	10 - 40 FPM	78"	Up to 600 lbs.

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