



ROACH
CONVEYORS®



24 VDC
MOTOR
DRIVEN
ROLLER

SMART

C O N V E Y O R



Powered By

Networked Through
EtherNet/IP™

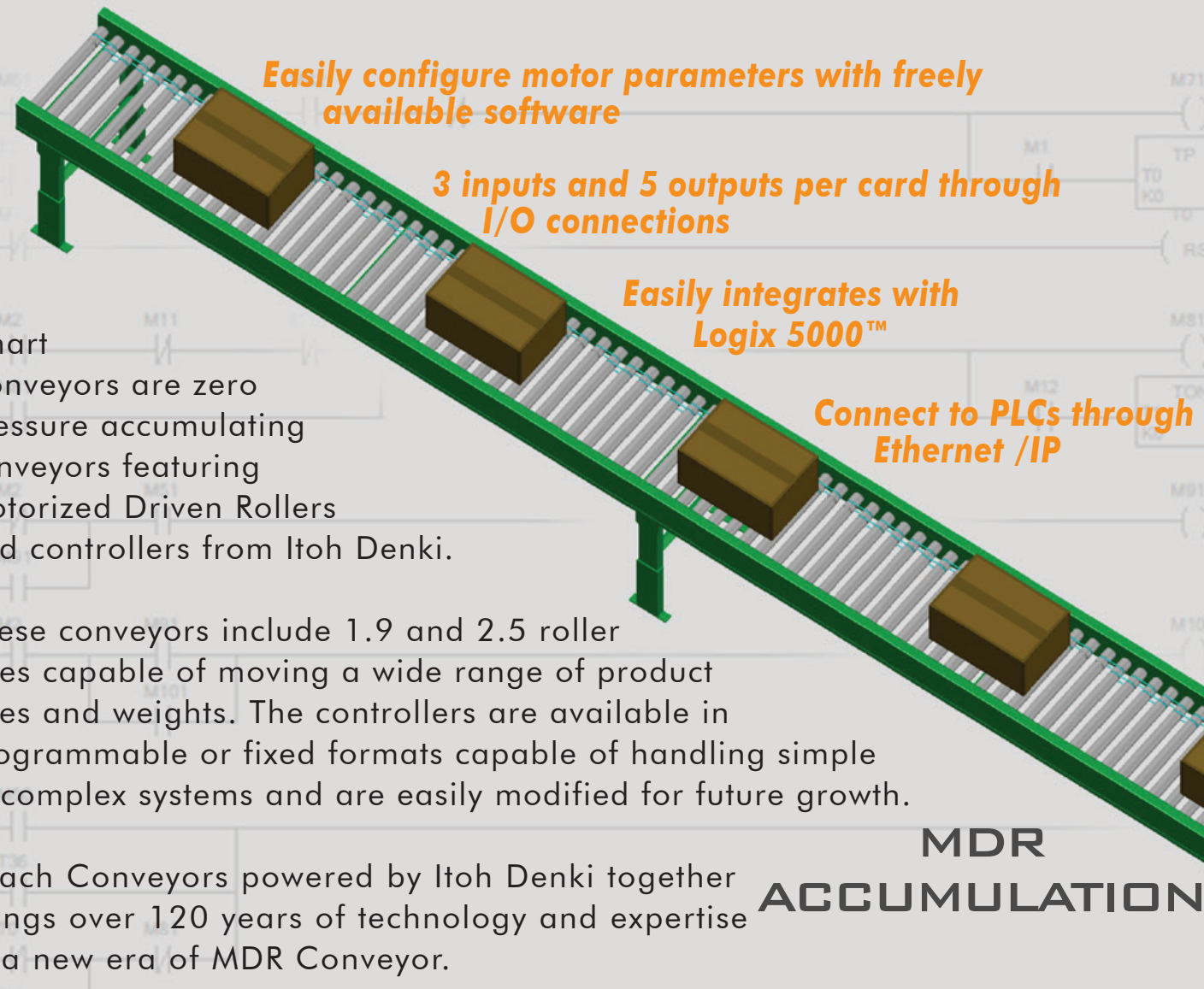
www.roachconveyors.com

SMART CONVEYOR

Technology in Motion

Roach Conveyors has designed and is manufacturing the new Smart MDR Conveyor.

This new state of the art technology allows for zone-to-zone control through Ethernet/IP communication. Zone and product control is now easy to monitor and control with the Smart MDR Conveyor.



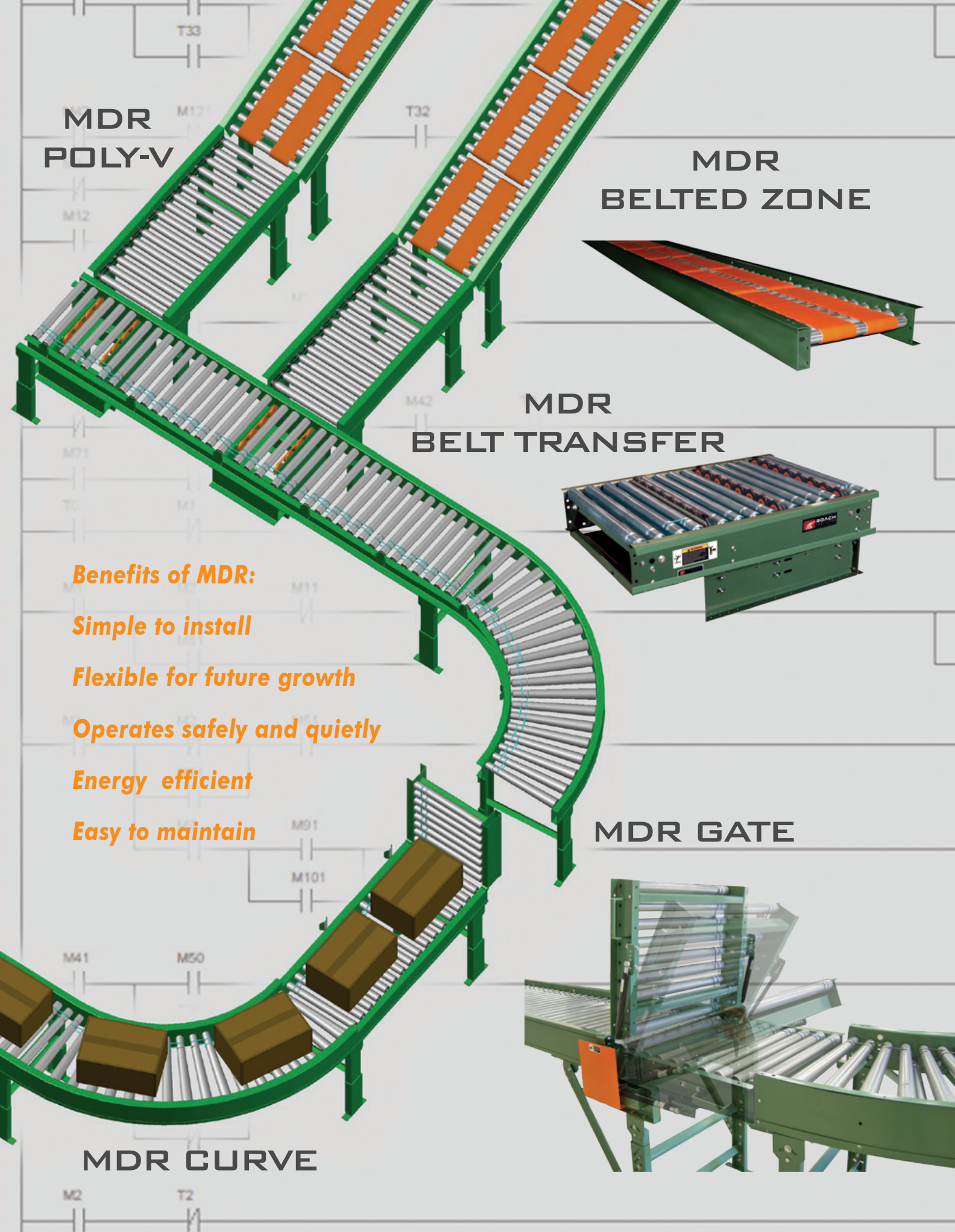
Smart Conveyors are zero pressure accumulating conveyors featuring Motorized Driven Rollers and controllers from Itoh Denki.

These conveyors include 1.9 and 2.5 roller sizes capable of moving a wide range of product sizes and weights. The controllers are available in programmable or fixed formats capable of handling simple to complex systems and are easily modified for future growth.

Roach Conveyors powered by Itoh Denki together brings over 120 years of technology and expertise to a new era of MDR Conveyor.

MDR ACCUMULATION

The SMART CONVEYOR is the LOGICAL Answer



- Benefits of MDR:**
- Simple to install
- Flexible for future growth
- Operates safely and quietly
- Energy efficient
- Easy to maintain

MDR CURVE

MDR POLY-V

MDR BELTED ZONE

MDR BELT TRANSFER

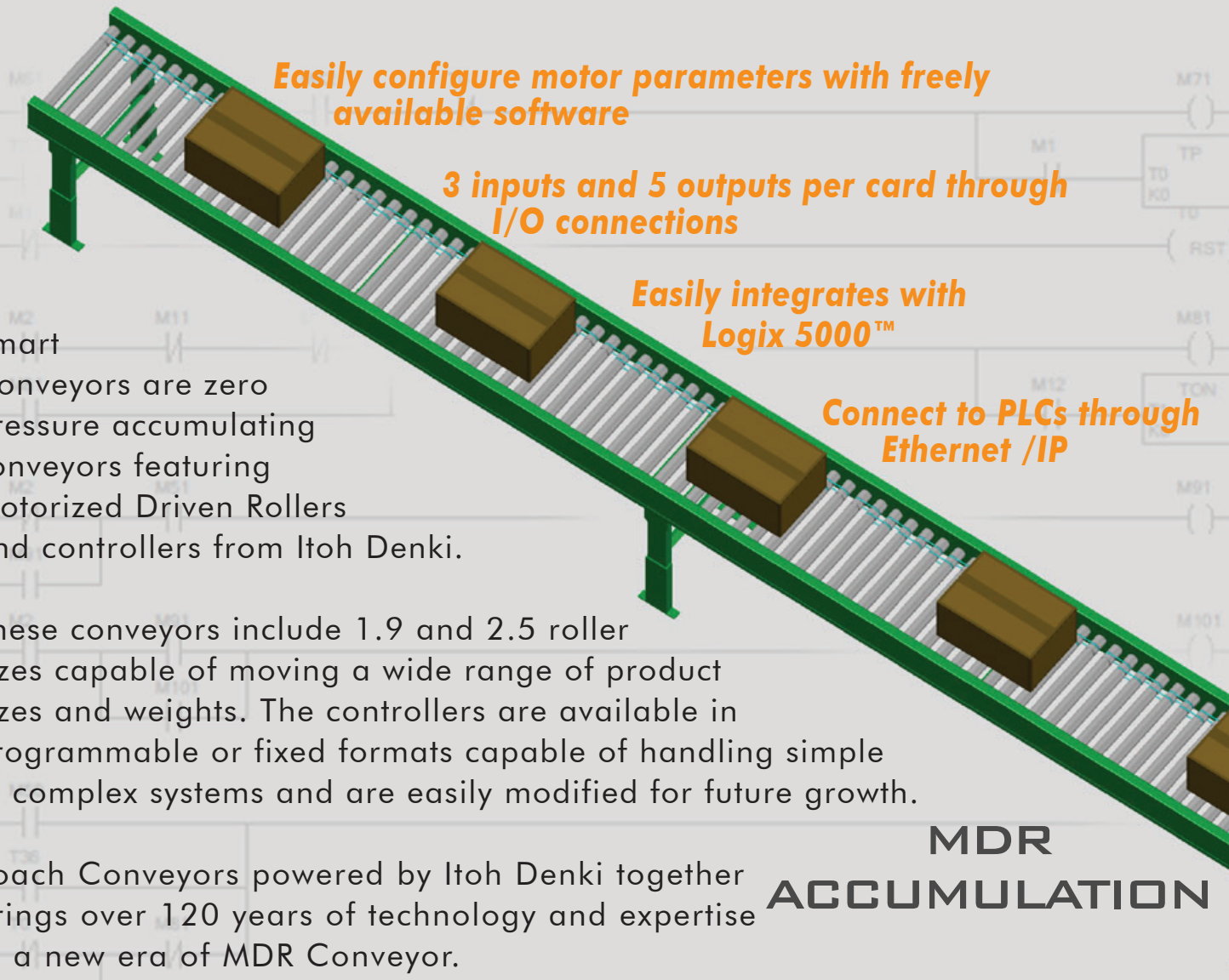
MDR GATE

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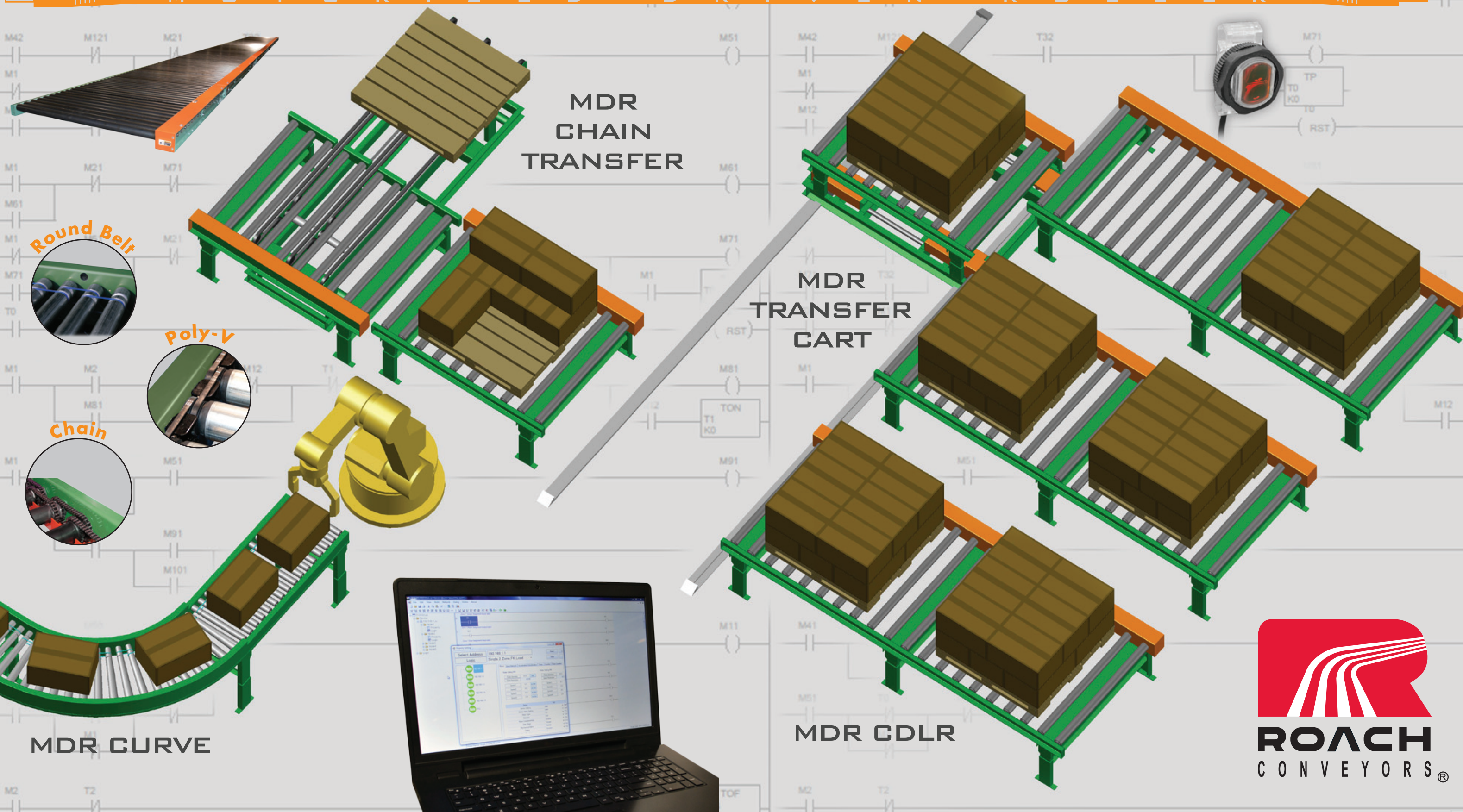
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24 VOLT DC MDR



Technology in Motion

The Motorized Driven Roller (MDR) is a self-contained motorized roller that opens new possibilities in conveyor design. Its low profile and ease of installation make it the perfect choice for most any application.

The Motorized Driven Rollers are controlled by a **Programmable Driver Card** or an optional **Fixed Driver Card**. These driver cards are capable of controlling simple to complex conveyor systems and allow for future growth and changing needs.

Listed below is an overview of their capabilities.



or



Programmable Driver Card

- **EtherNet/IP** CONFORMANCE TESTED™
- 2 port Ethernet switch (DLR capable)
- Connects to EtherNet/IP controllers (PLCs) through an I/O connection (implicit messaging)
- Configures easily in Logix 5000™ using the available AOP (Add-On-Profile)
- Device Level Ring (DLR) technology built in
- Control, monitor, and diagnose the performance of each Motorized Driven Roller
- UL and cUL registered component
- Controls up to 2 Motorized Driven Rollers (brake and non-brake models)
- Direct connection for 2 photo-sensors that power and receive the output signal
- Custom programmable ladder logic for fine tuning your specific application
- I/O device equipping 3 discrete inputs and 5 discrete outputs
- Local and remote control are available
- LED status / error indicators
- Motor pulse counting available through logic control

Fixed Driver Card

- Controls up to 2 Motorized Driven Rollers (brake and non-brake models)
- 2 available sensor connections that power and receive the output from sensor
- Built-in thermal protection for both driver card and Motorized Driven Rollers
- Dynamic brake control
- Stable speed function to ensure articles of different weights travel at the same rate
- Variable speed control by rotary switch
- Direction control by onboard DIP switch or external signal input
- Logic for general Zero Pressure Accumulation (ZPA) control is built-in
- Flexible Zone Recognition to handle long articles which simultaneously block multiple sensors
- Easy connection between adjacent HBM-604's with communication cable to simplify wiring

Motorized Driven Roller conveyors are set-up, pre-wired, and tested in our facility to provide an easy and trouble-free installation.



The SMART CONVEYOR is the LOGICAL Answer



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