

**MorrellGroup**   
Evolution in Controls



**Industrial**

**Solutions**



**Core Values**

Accountability  
 Balance in Work and Life  
 Collaboration  
 Commitment  
 Community  
 Employee Empowerment  
 Integrity  
 Respect



## Meet Morrell Group

Driven by a passion for innovative technology and conquering challenges, we develop solutions that keep our customers moving toward the future. From concept to completion, we provide exceptional customer service deeply rooted in our Commitment to Excellence. Our goal is to continue to grow our business with our customers and trusted vendor partners with the same quality and integrity we have had since 1976. *We keep things moving.*

- 🔗 Solutions Based Engineering
- 🔗 Design Engineering for Hydraulics, Pneumatics, Lubrication & Mechanical Solutions
- 🔗 Machine Control Design Experience
- 🔗 Hardware & Software Design
- 🔗 Concept & Process Engineering
- 🔗 System Integration Solutions
- 🔗 Subsystem Efficiency Solutions
- 🔗 Modification of Machines to U.S. Standards & Specifications
- 🔗 Quality Assurance According to ISO9001:2008 & AS9100:2016
- 🔗 Designs & Capabilities According to U.S. & European Standards NFPA, UL, CE





# Elements of Success

## E Engineering Partner

Morrell Group functions as your partner, an extension of your engineering team. Rather than forcing you to adopt our business practices, we adopt to yours—seamlessly.

- Factory Trained Service Technicians
- Dedicated Product Management
- Maximum Stocking Levels
- Integrated Systems
- Application Engineering
- Custom Products & Solutions
- 3D Modeling & FEA Analysis
- Advanced Product Training
- Product & Machine Expertise
- Research & Development
- Product Launch Support
- Safety Reviews
- Prototyping

## S Systems Integrator

The innovative solutions we engineer support both new and old systems. Employing cutting edge technology, we optimize your machines, fine-tuning them for efficiency, reliability, and longevity.

- Service Technicians
- Application Assistance
- Committed Inventory Program
- Configured Assemblies
- Product Sizing & Selection
- Integrated Products
- Concept Engineering
- Training

## V Value-Added Distributor

More than a mere supplier, Morrell Group provides attractive solutions built on a foundation of quality components and competitive pricing.

- 24/7 Support
- Customer Service
- Inventory
- Product Kitting
- Product Support

**Complete Life-Cycle Support**

-  THINK
-  PLAN
-  DESIGN
-  SOURCE
-  BUILD
-  TEST
-  INTEGRATE
-  SUPPORT
-  LEARN



# Meet Morrell Group

Morrell Inc. began as a trusted resource for premier components, and over the last four decades evolved into the Morrell Group, an Engineering Partner, Systems Integrator and Value-Added Distributor (ESV).

As an ESV, we provide our customers with highly engineered solutions for motion control tasks. By leveraging our group members' diverse industry experience and product knowledge, we engineer technically superior solutions with sustainable value.



## Morrell Industrial

A trusted resource for the design, build, installation, and maintenance of electrical, hydraulic, pneumatic and lubrication systems built solidly on these components.

- Priority access to industry leading components
- Unparalleled experience in component application
- Industry leading system and subsystem development

## Morrell Mobile

A world-class provider of solutions for electrical and motion control systems – from simple panel builds to the full integration of complex, turnkey systems.

- Tremendous experience in more than 80 critical capabilities
- Complete life-cycle support - niche to total solutions

## stegner controls

Stegner Controls provides electrical and motion control system solutions from simple panel builds to fully integrating complex, turnkey systems. Serving more than a dozen major industries, including:

- General Automation
- Aerospace
- Automotive
- Stamping
- Fast Moving Consumer Goods (FMCG)
- e-Mobility

## LORmobile controls

LOR Mobile Controls, a Morrell Group company, is a leader in systems integration with the knowledge and expertise to deliver advanced custom control solutions for mobile and off-highway applications.

- Leader in mobile control technology
- Radio controls & relay logic
- CAN bus systems & SAE J939

## THE MOTIONEER by Morrell Group

As a team of expert engineers, The Motioneers create custom motion control solutions for unique mobile and industrial challenges.

- Vast knowledge of many industries
- Innovative solutions for all challenges
- Solutions from concept to completion



# Innovation that

# Keeps You Moving



Morrell Group is dedicated to and equipped for keeping your systems moving throughout the Industrial 4.0 revolution. We align the needs of your organization to engineer flexible, fully-connected solutions so you can proactively adapt to the market's ever-shifting demands.

### **NOW**

- Linear, sequential operations
- Largely manually controlled production
- Limited scope of data collected

### **NEXT**

- Union of the digital & physical worlds
- Real-time data visualizations
- Digital supply networks drive production & distribution

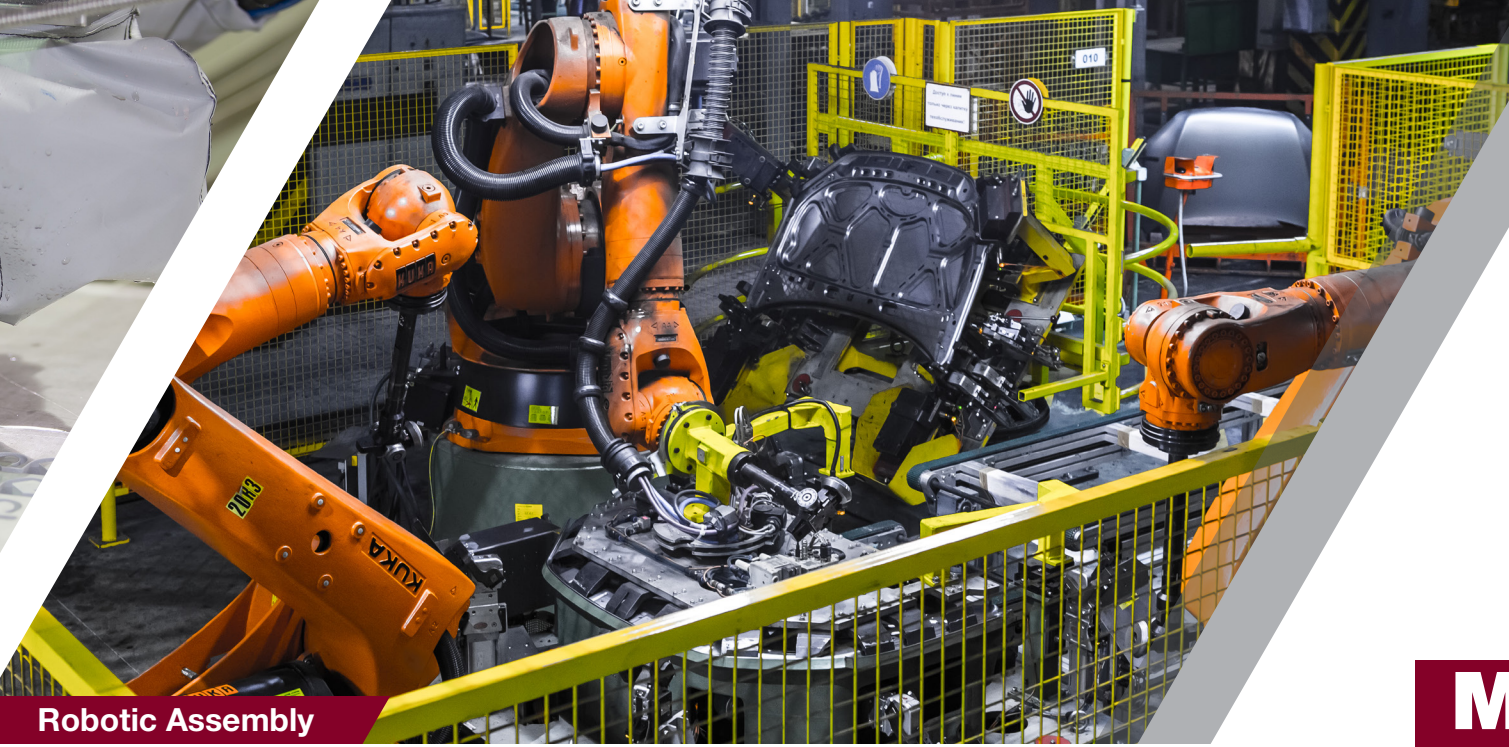
### **BEYOND**

- Ongoing evolution of factory modernization
- Production carried out with minimal intervention
- Seamless networking across plant operations, field devices, controls & supply chain networks





Machine Tools



Robotic Assembly



General Automation



Bottling Lines

## Mechanical &

## Pneumatic Products

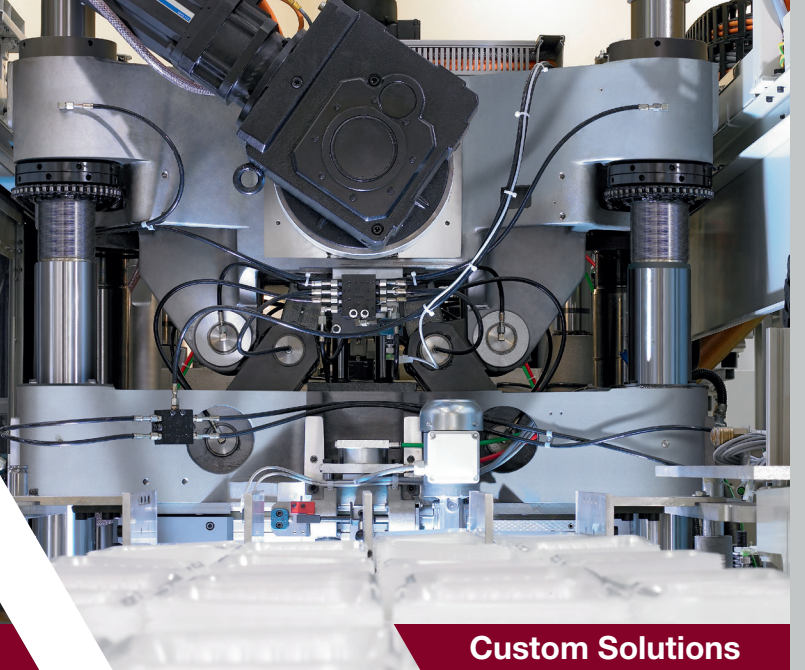
Morrell Group provides unparalleled performance in motion control applications dealing with high speed, accuracy, position synchronization, and high axis count.

- ☞ Actuators
- ☞ Air Preparation
- ☞ Ball & Roller Rail Systems
- ☞ Couplings
- ☞ Gear Boxes
- ☞ Electric Cylinders
- ☞ Linear Motion Systems
- ☞ Motion Controllers
- ☞ Pneumatic Systems
- ☞ Press Systems
- ☞ Rack & Pinion
- ☞ Screw Jacks





Coil Feed Lines



Custom Solutions

## Electronics, Drives & Controls Products

Morrell Group employs a flexible design concept for its controls systems. Designs range from small, compact, all-in-one servo-drive systems to large modular systems to panel free technology. These products provide exceptional diagnostic capabilities, including Industry 4.0 solutions. Our safety product offering is the broadest in the industry, and it includes free intuitive software.

- ⌚ Automatic Identification
- ⌚ Custom Cable Configurations
- ⌚ Machine Safety
- ⌚ Measurement Technology
- ⌚ PLCs & HMIs
- ⌚ Power Supply Distribution
- ⌚ Sensing Technology
- ⌚ Servo Drives & Controls



Machine Safety



Automotive Assembly



Aerospace Tooling





Machine Tools



Plastics Machines

## Hydraulic Products

More than just providing fluid power systems, Morrell Group builds solutions, too. Our in-house engineering and manufacturing teams can meet the needs that arise from any application. Our vendor partners, committed to product development and innovation, support us on the leading edge of hybrid systems.

- Accumulators
- Control Valves
- Filtration & Accessories
- Fluid Monitoring & Conditioning
- Manifolds
- Power Units
- Proportional & Servo Control
- Pumps & Motors



Test Stands





## Process &

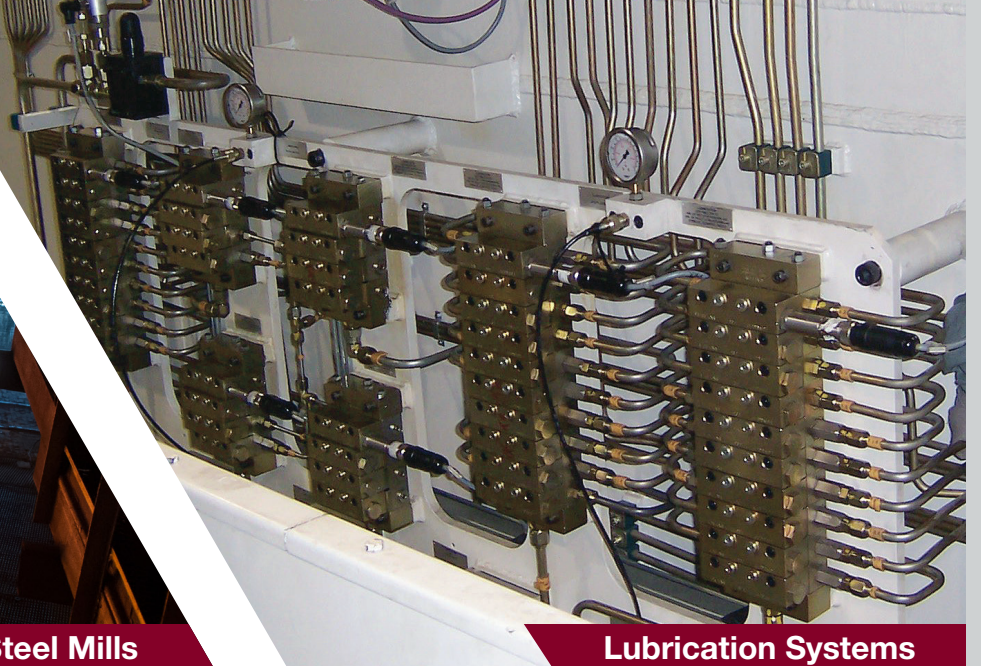
# Lubrication Products

A proper fluid power system reduces energy usage, operating costs, and maintenance hours while improving a system's operational lifetime. Morrell Group uses best-in-class components to provide flexible and reliable solutions. Our compact yet robust systems enable both fast action and ultimate control.

- ☞ Assembly Lubrication
- ☞ Control Valves
- ☞ Filtration
- ☞ Gas & Emissions Analyzers
- ☞ Process Measurement Technology
- ☞ Process Pumps
- ☞ Single-Line Lubrication Systems
  - Parallel Systems
  - Series Progressive Systems



Steel Mills



Lubrication Systems



Process Systems



Renewable Energy



Water Treatment Facilities





Automatic Tightening Station



Safety Critical Assembly Tools

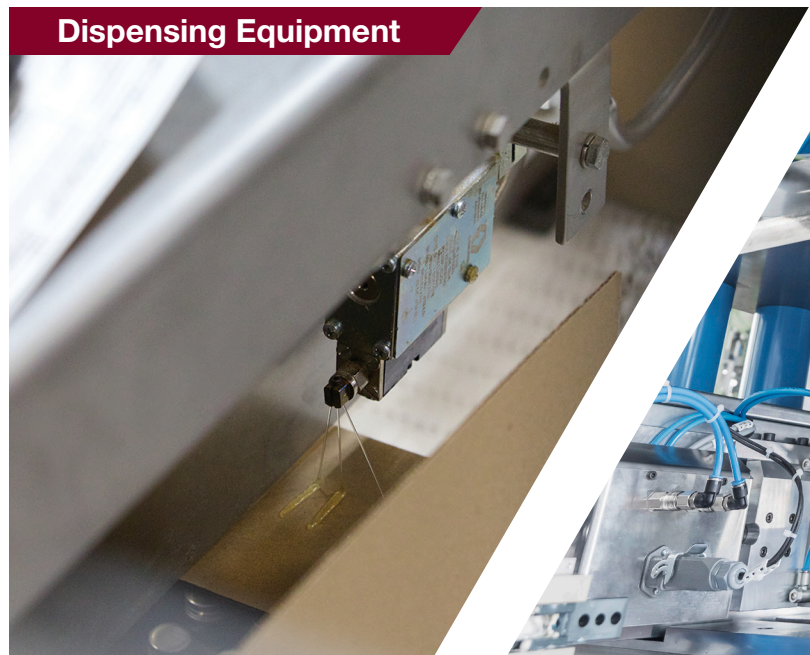
## Joining Technologies

Morrell Group's innovative solutions simplify the challenges presented by the changing demand for flexible and automated joining technology. In addition to being safe and reliable, these solutions are supported throughout their lifetime.

- 🔧 Dispense Solutions
- 🔧 Handheld Assembly Tools
- 🔧 Intelligent Cordless Assembly Tools
- 🔧 Metering Packages
- 🔧 Pressing & Bonding
- 🔧 Safety Critical Assembly Tools
- 🔧 Spot Welding Solutions
- 🔧 Stationary Tightening Solutions



Welding



Dispensing Equipment

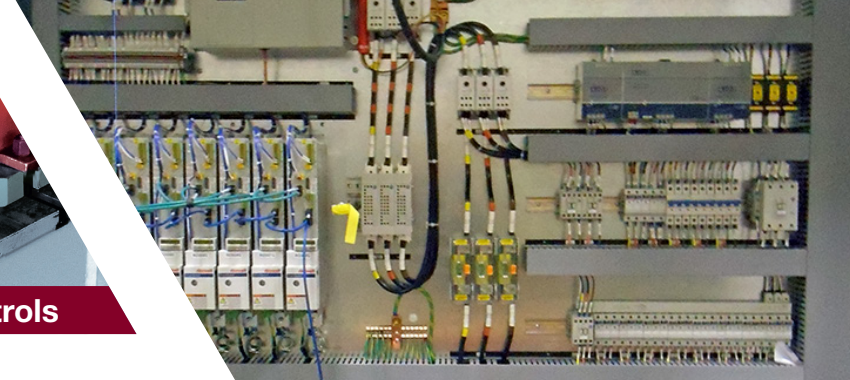


Press Fit





Machine Controls



Control Panels



Aluminum Extrusion Systems

# Integrated Solutions

Morrell Group's complete suite of services includes concept development, design, engineering, and build and test capabilities from a single source. To optimize solutions for your applications, we draw upon our experience in industry-leading control platforms, including Rexroth, Allen Bradley and Siemens. Quality is #1 at Morrell Group! That is why we are an AS9100, IS9001 and UL508A approved supplier.

- ☞ Aluminum Extrusion Systems
- ☞ Autonomous Mobile Robots (AMR)
- ☞ Control Panel Build
- ☞ Controls & Hardware Design
- ☞ Conveyors
- ☞ Prototyping
- ☞ Research & Development
- ☞ Software Design & Engineering
- ☞ Track & Trace Systems (RFID, Barcode)
- ☞ Vision Systems (2D, 3D)



Vision Systems



Conveyors



Software Engineering



**E** Engineering Partner  
**S** Systems Integrator  
**V** Value-Added Distributor

**rexroth**  
 A Bosch Company

**HYDAC**

**SICK**  
 Sensor Intelligence.

**EMERSON | AVENTICS**

**GRACO**

**DOPAG**

**S** Systems Integrator  
**V** Value-Added Distributor

**APEX DYNAMICS, USA**

**Cone Drive**

**EUCHNER**

**EXLAR**

**JOYCE**

**LEANTECHNIK**

**Certified Excellence**  
**rexroth**  
 A Bosch Company

**V** Value-Added Distributor

**ATLANTA** **Daman**  
 DRIVING EXCEPTIONAL PERFORMANCE

**GAM** **Hanna cylinders**

**Hengst** **KTR**  
 Made for Motion

**magnum** **MURR ELEKTRONIK**  
 stay connected

**nexen** **R+W**  
 A POPPE + POTTHOFF COMPANY

**RTI** **WIKAL**  
 Part of your business

**Automation**

**Controls**

HMI  
 PLC  
 Programming

**Drives**

Servo Drive Motors  
 Variable Frequency

**Electronics**

Auto Identification  
 Cables  
 Encoders  
 Gate Switches  
 I/O Link  
 Power Distribution  
 Safety  
 Sensors  
 Vision

**Mechanical**

Ball Screw  
 Ball Transfer Units  
 Cartesian Gantries  
 Couplings  
 Electric Cylinders  
 Linear Actuators  
 Linear Bearings  
 Linear Bushings & Shafts  
 Gearboxes  
 Gear Rack & Pinion  
 Screw Jacks

**Pneumatics**

Compressed Air Preparation  
 Connection Technology  
 Cylinder  
 Drives  
 Electro-Pneumatic Devices  
 Pressure Regulators  
 Safety  
 Sensors  
 Vacuum Technology  
 Valves & Valve Systems

**Fluid Power**

**Accessories**

Cartridges  
 Clamps  
 Flow Control

**Accumulators**

Bladder  
 Diaphragm  
 Piston

**Cooling Systems**

**Cylinders**

Mill Type  
 Tie Rod

**Electronics**

Coils  
 Controllers  
 Diagnostic Equipment Displays  
 Encoders  
 Sensors  
 Valve Amplifiers

**Filters**

Filters  
 Filtration Systems

**Lubrication**

Automatic Controllers  
 Automatic Grease & Oil Pumps  
 Flow Divider Valves  
 Grease & Oil Injectors

**Manifolds**

**Motors**

Axial Piston Motors  
 External Gear Motors  
 Radial Piston Motors  
 Vane Motors

**Power Units**

**Pumps**

Axial Piston Pumps  
 Gear Pumps  
 Radial Piston Pumps  
 Pump Assemblies  
 Vane Pumps

**Joining**

**Metering Packages**

**Tightening Technology**

Handheld Nutrunners  
 Interface Modules  
 Tightening Spindles

**Welding Technology**

Controllers  
 Fieldbus Connections  
 I/O Components  
 Mid-Frequency Transformers

**Integration**

**Aluminum Extrusion Systems**

**Autonomous Mobile Robots (AMR)**

**Control Panel Build**

**Controls & Hardware Design**

**Conveyors**

Aluminum Framing  
 ID Systems  
 Manual Production Systems

**Prototyping**

**Research & Development**

**Software Design & Engineering**

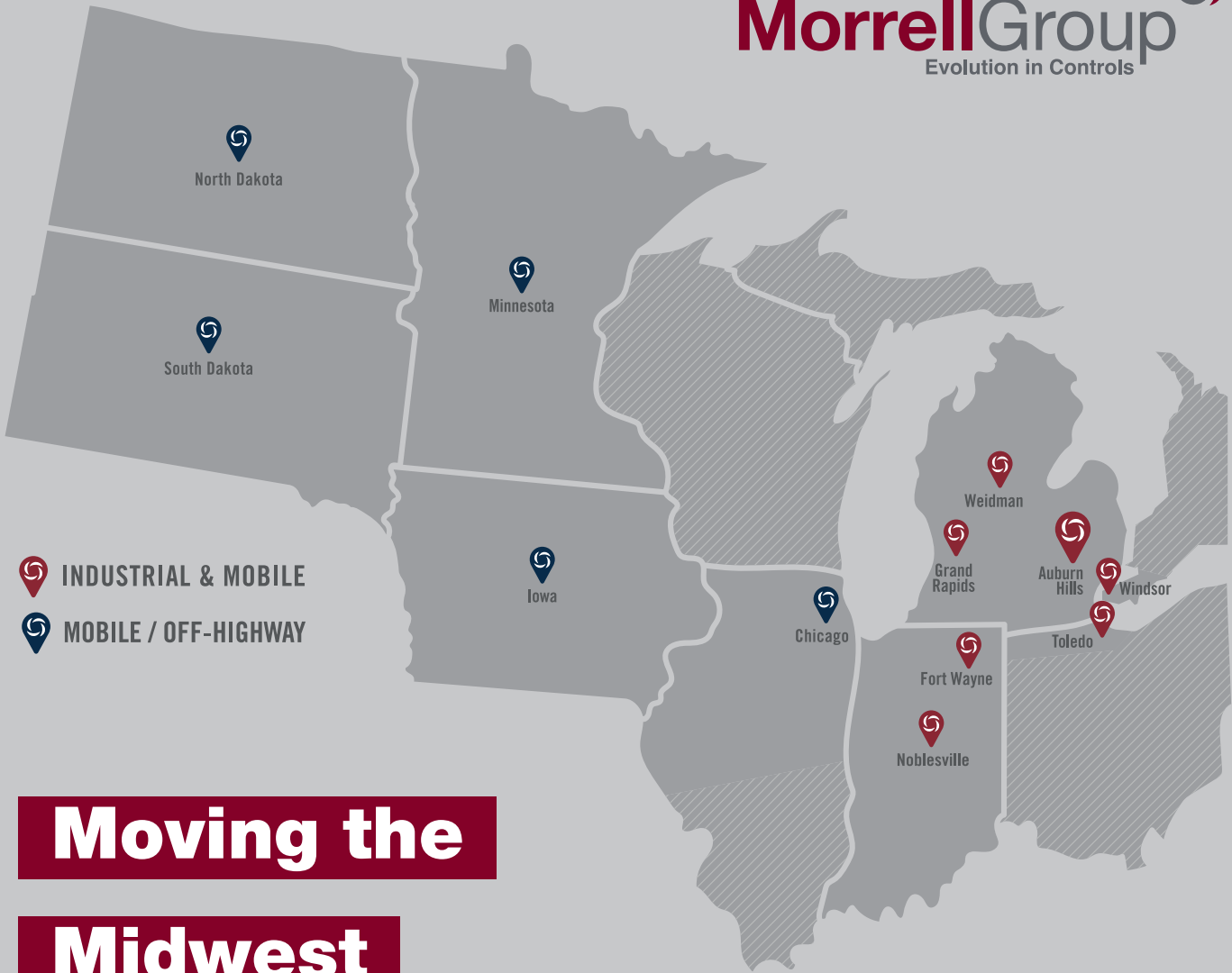
**Track and Trace**

1D & 2D Code Reading  
 Goods Receipt  
 Outgoing & Receiving Areas  
 Read & Write RFID Tags

**Vision Systems**

2D & 3D  
 Inspection  
 Measuring  
 Positioning  
 Reading





# Moving the

# Midwest

MICHIGAN  
**Auburn Hills**  
248-373-1600

**Grand Rapids**  
616-583-9390

**Weidman**  
866-644-8622

INDIANA  
**Noblesville**  
317-849-7007

**Fort Wayne**  
260-483-7070

ILLINOIS  
**Glendale Heights**  
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**Disclaimer**

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