



# Morrell Industrial

*A Division of Womack Group*



**Factory Automation**



# Meet Morrell Industrial

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

Complete  
Life-Cycle  
Support



THINK



PLAN



DESIGN

**E****Engineering  
Partner**

Morrell Industrial 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 Industrial provides attractive solutions built on a foundation of quality components and competitive pricing.

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

**SOURCE****BUILD****TEST****INTEGRATE****SUPPORT****LEARN**



# One Team. Infinite Solutions.

Womack Group unites the leading motion control solution providers Morrell Industrial, Stegner Controls, Womack Machine Supply, Womack Systems, Morrell Mobile, and LOR Mobile Controls.



Morrell Industrial provides integrated engineering solutions, expertise, and resources for automation, controls, pneumatic, electrical, hydraulic, dispensing, and lubrication applications.

- Established in 1978
- Expert engineering partner for system and subsystem integration
- Value-added distribution
- Initial concept and product to development and integration



Stegner Controls provides electrical and motion control solutions, from simple panel builds to fully integrating complex, turnkey systems.

- Established in 1948
- Complete life-cycle support for control system solutions
- Envision, plan, design, and source
- Build, test, integrate, and support



Womack provides hydraulic, pneumatic, and electromechanical solutions for mobile and industrial motion control and automation applications.

- Established in 1953
- Broad product offerings
- Full suite of value-added capabilities
- Engineering, service, repair, and training



Womack Systems provides competitive, value-added solutions by manufacturing custom systems for specific applications.

- Established in 1953
- Expert resources, capabilities, and competencies
- Schematics, layout drawings, and CAD drawings
- Designs for manufacturability and serviceability principles



Morrell Mobile provides technical expertise and resources to supply integrated solutions for actuation, optimization, propulsion, and electrification technologies for mobile/off-highway applications.

- Established in 1978
- Trusted engineering partner for system and subsystem integration
- Value-added distribution
- Conceptualization, production, installation, and support



LOR Mobile Controls is a leader in systems integration with the expertise to deliver advanced custom control solutions for mobile/off-highway applications.

- Established in 1991
- Reliable, scalable plug-and-play control system solutions
- Radio controls, relay logic, and complex CAN Bus systems
- SAE J1939-based controls and wireless data communication networks



**Free Concept**

**Engineering with**

**the Motioneers**

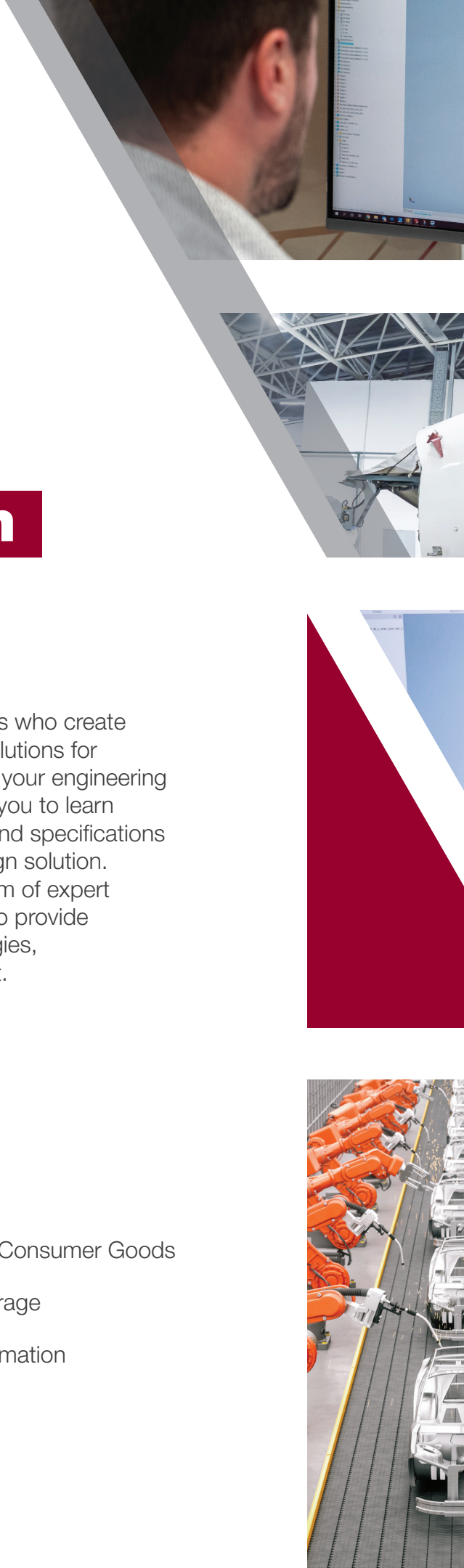
The Motioneers are a team of dedicated engineers who create custom conceptual engineering motion control solutions for industrial applications. Serving as an extension of your engineering team, the Motioneers collaboratively partner with you to learn and understand your application's requirements and specifications so they can create the most efficient system design solution. By partnering with the Motioneers, you gain a team of expert mechanical, electrical, and controls engineers who provide concept engineering solutions for many technologies, applications, and industries - at no additional cost.

#### Technologies

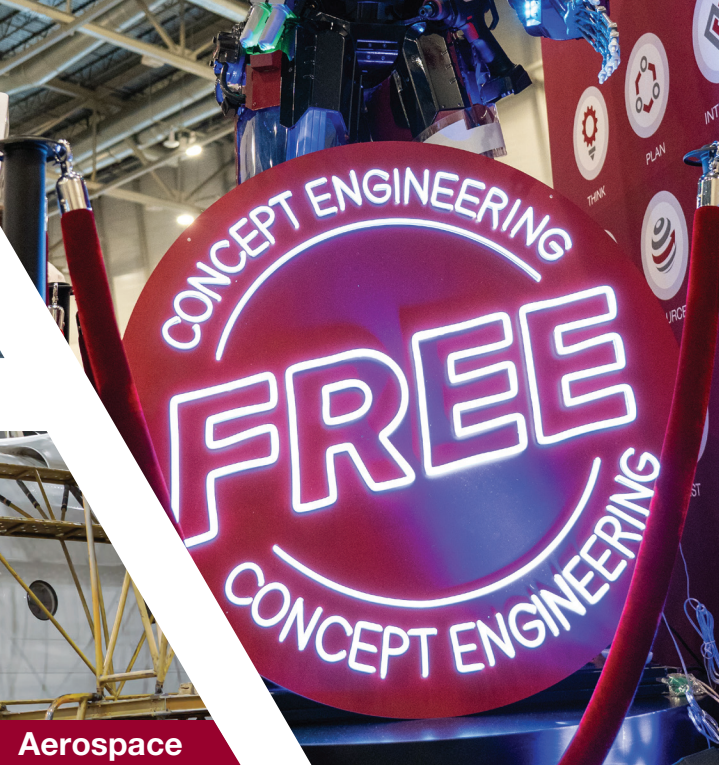
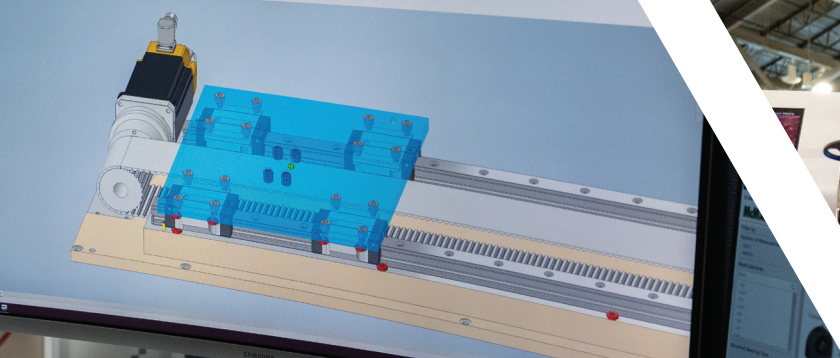
- ⌚ Dispensing
- ⌚ Hydraulics
- ⌚ Joining
- ⌚ Lubrication
- ⌚ Pneumatics
- ⌚ Sensing

#### Industries

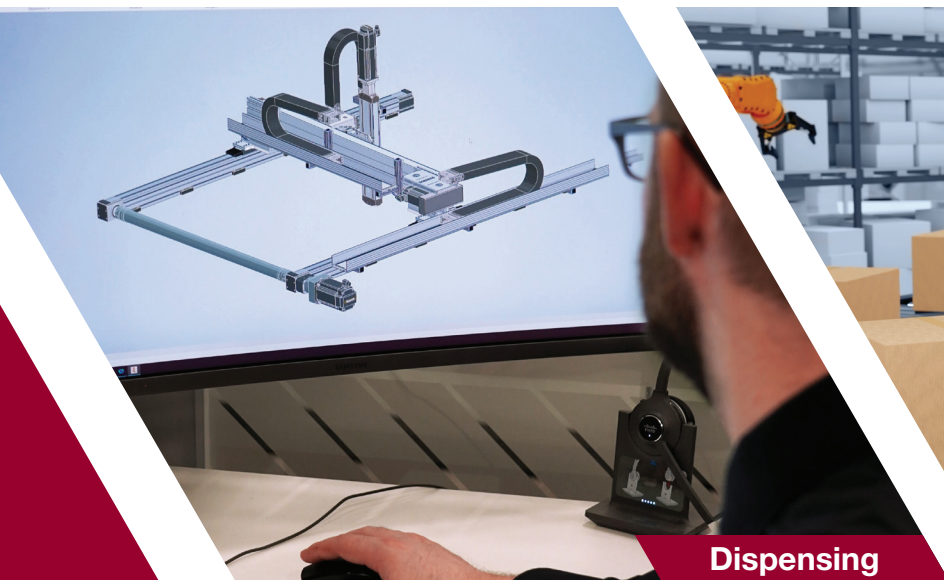
- ⌚ Aerospace
- ⌚ Automotive
- ⌚ Defense
- ⌚ Fast-Moving Consumer Goods
- ⌚ Food & Beverage
- ⌚ General Automation







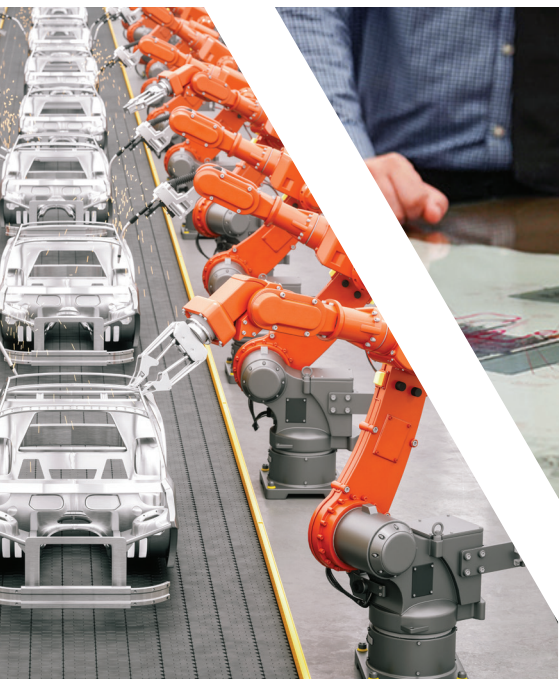
Aerospace



Dispensing



General Automation



Concept Engineering



**Machine Tools**



**Robotic Assembly**



**General Automation**



**Bottling Lines**



## Mechanical &

## Pneumatic Products

Morrell Industrial 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



# Electronics, Drives, & Controls Products

Morrell Industrial 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





**Coil Feed Lines**



**Custom Solutions**



**Automotive Assembly**

**Machine Safety**



**Aerospace Tooling**





**Machine Tools**



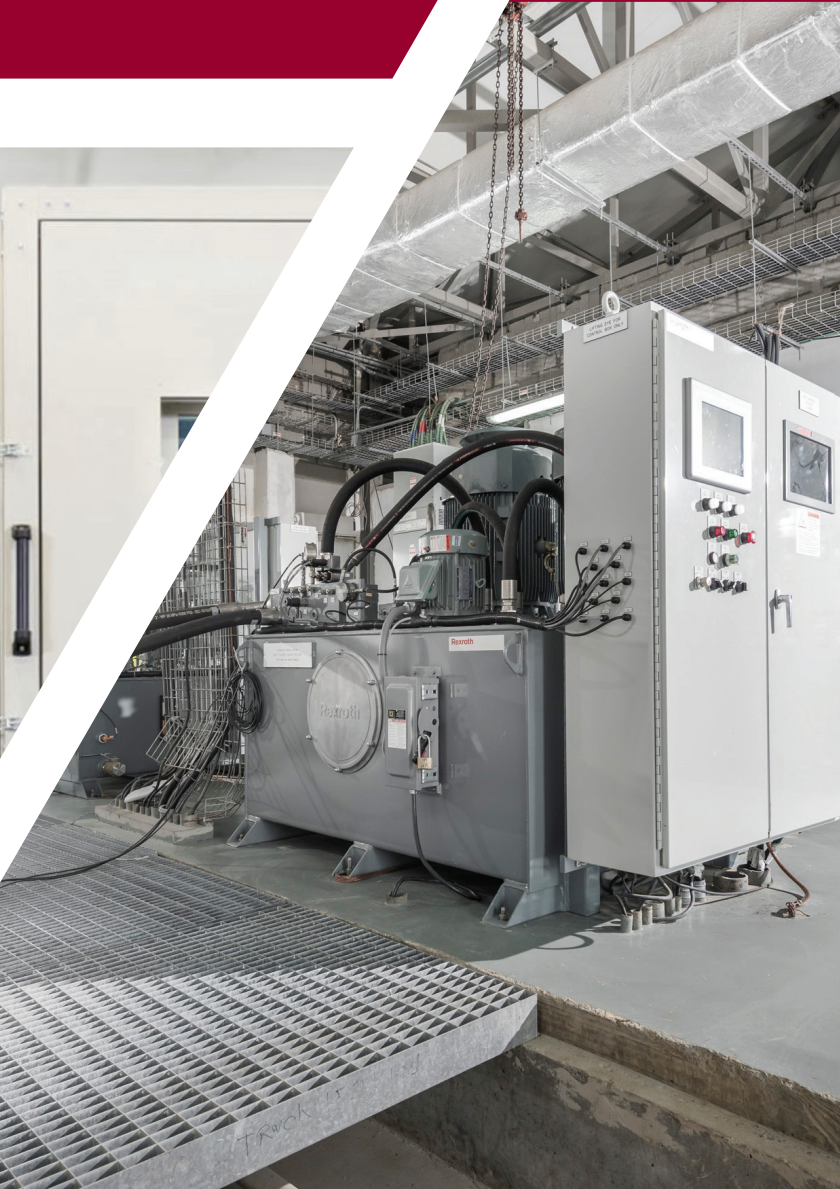
**Plastics Machines**



**Test Stands**



**Custom Power U**





## Hydraulic Products

Morrell Industrial builds and provides fluid power systems and solutions. 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

er Units





## Process &

## Lubrication Products

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

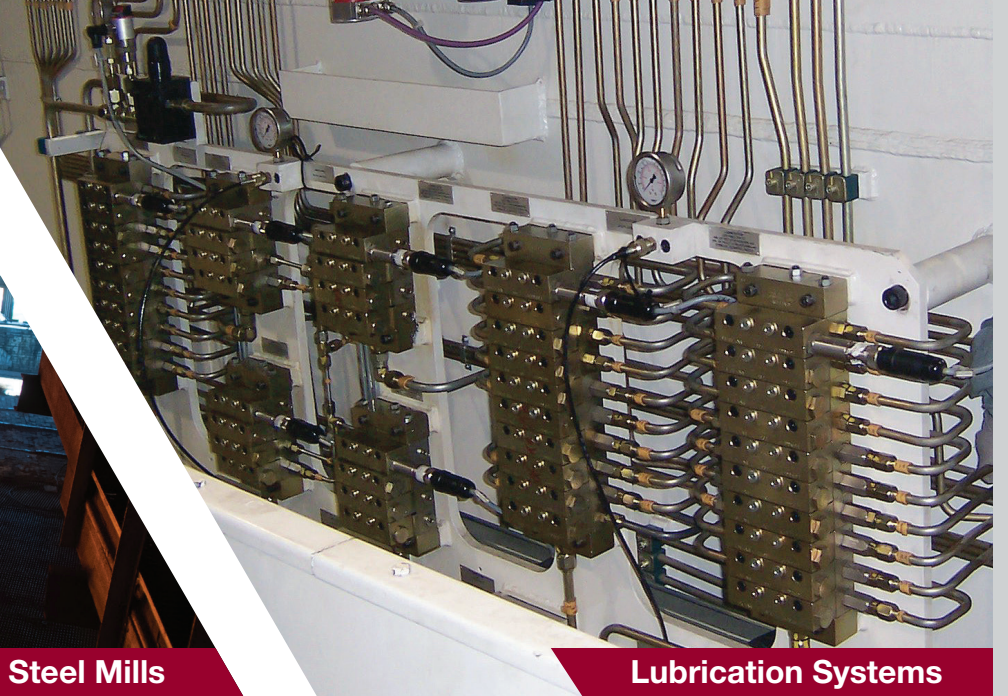
- ⌚ Assembly Lubrication
- ⌚ Control Valves
- ⌚ Filtration
- ⌚ Gas & Emissions Analyzers
- ⌚ Process Measurement Technology
- ⌚ Process Pumps
- ⌚ Single-Line Lubrication Systems
  - Parallel Systems
  - Series Progressive Systems







**Steel Mills**



**Lubrication Systems**



**Process Systems**



**Renewable Energy**

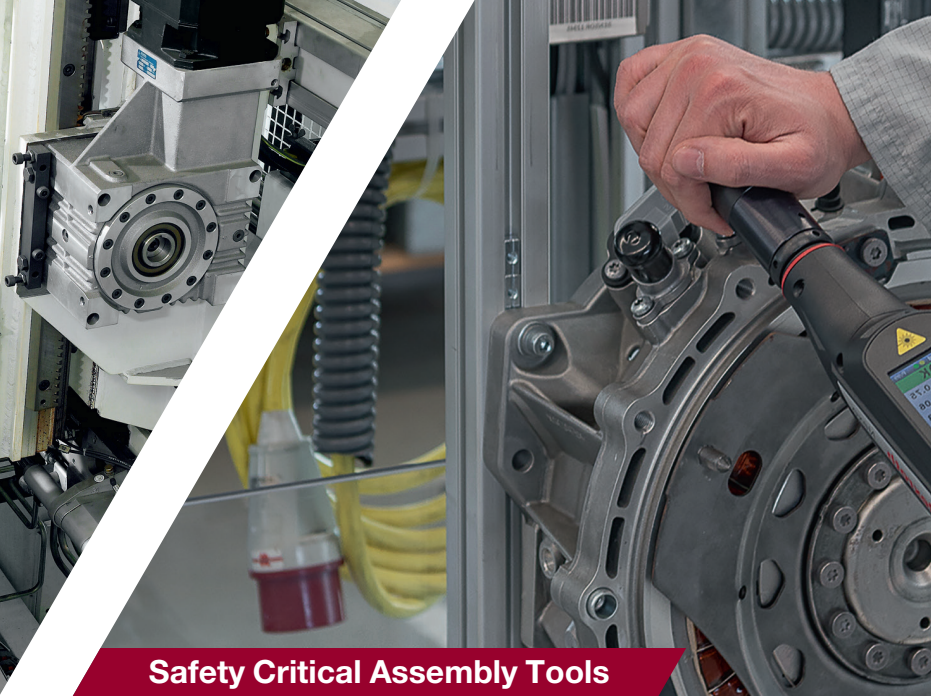


**Water Treatment Facilities**

FLUID POWER



**Automatic Tightening Station**



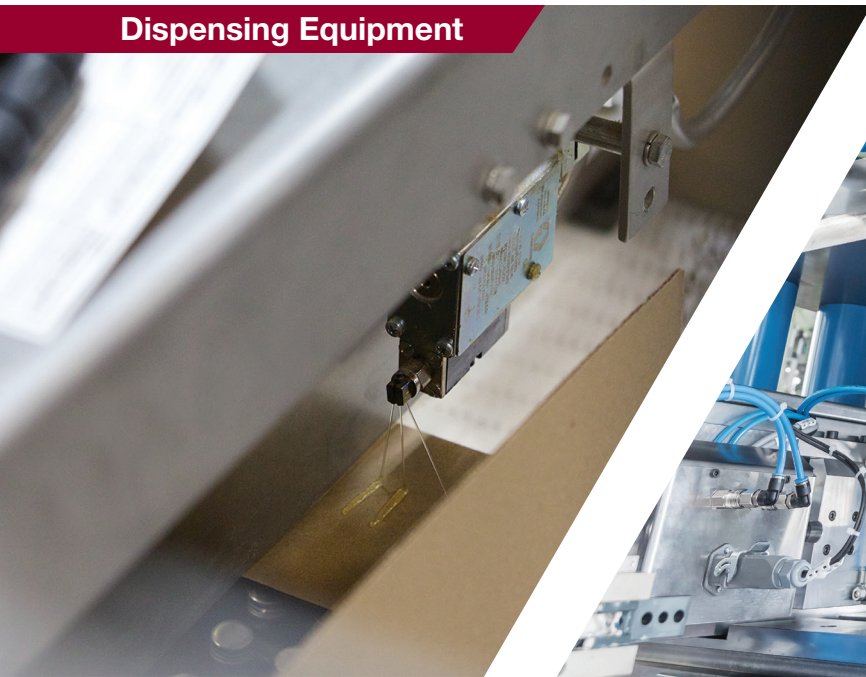
**Safety Critical Assembly Tools**



**Welding**



**Press Fit**



**Dispensing Equipment**





# Joining Technologies

Morrell Industrial's innovative solutions simplify the challenges presented by the ongoing 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





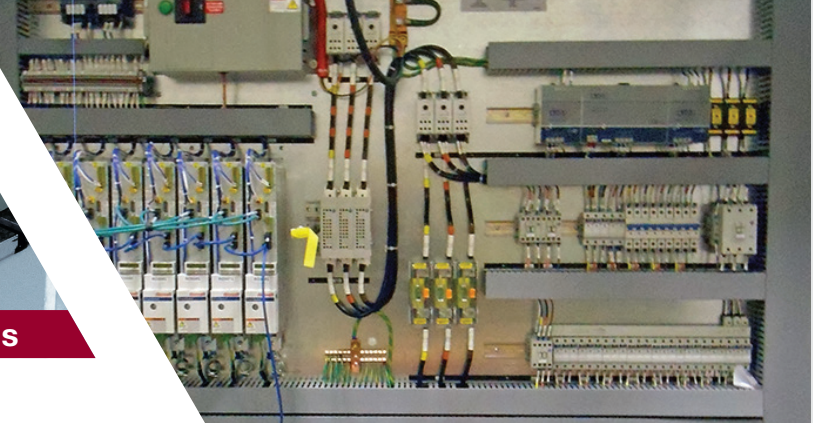
# Integrated Solutions

Morrell Industrial'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 a priority at Morrell Industrial. 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)



**Machine Controls**



**Control Panels**



**Aluminum Extrusion Systems**



**Vision Systems**



**Conveyors**



**Software Engineering**



## **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

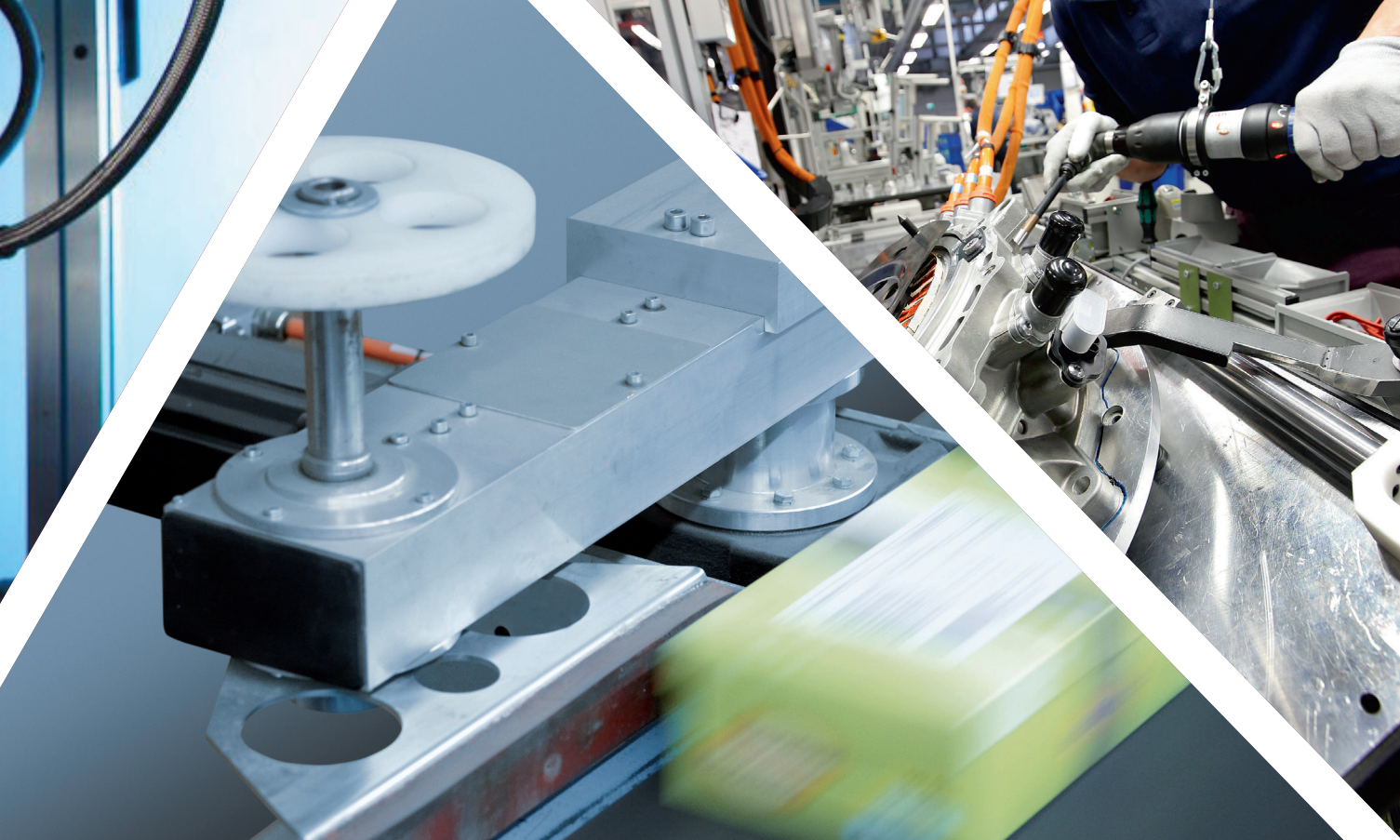
### **Cooling Systems**

#### **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



- ◆ Warehouse & Sales
- ◆ Sales Offices

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