AUTOMATION SOLUTIONS

MGS Automation Systems provide consistent manufacturing efficiency, integration flexibility and cost-effective operation and maintenance.

PRESS SIDE

MGS is an established molder running over 260 injection presses in seven locations around the world. This extensive knowledge of press-side design allows us to offer out-of-the-box solutions for products requiring downstream and/or upstream molding processes. We take control of the entire work cell ensuring complete alignment and integration between the injection mold, press, robotics and automation cell.

QUALITY CONTROL

MGS takes quality seriously and invests in distressed training and equipment to perform in-house feasibility studies for all new products and processes. We have experience integrating and using the following technologies:

- Continuity
- Resistance
- Hipot
- Dynamometer
- Absolute scale encoder, LVDT
- Laser displacement
- Optical
- Custom linear transducer
- Specialty sensors

LEAK INSPECTION

- Pressure decay
- Vacuum decay
- Flow testing

VISION INSPECTION

- Cosmetic
- Measurement
- Bar code identification/read
- Feature recognition
- Mold verification—closure confirmation

MIDWEST

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CONTACT US

We invite you to take a tour of our manufacturing facility. Ready to take action? Send over your RFP and allow us to prove MGS Automation is precisely the right choice.

MGS AUTOMATION—ENGINEERING FOR OPTIMUM PERFORMANCE

Industries: Medical, Electronics, Automotive, Energy, Consumer, Industrial & Packaging
MGS Automation was initially developed as an in-house resource supporting the rapidly growing operations of Wisconsin-based MGS Mfg. Group. Its early success paved the way for marketing custom automation solutions to other manufacturers.

A truly automated solution includes more than intelligent machinery. Our engineers are devoted to every detail of your automated process. With our comprehensive understanding of manufacturing processes, MGS offers turnkey solutions such as: budget, floor space, life of project, annual volumes, integrated QA needs, component specifications, software needs and ease of operation. Our wide range of automation platforms allows MGS to configure a fully customized automation cell that will assemble your custom parts precisely and consistently while evaluating quality.

INDEXING—ROTARY & LINEAR

The most common and typically the most cost-effective assembly solutions for applications with volumes ranging between 10–150 parts per minute (PPM). By offering both rotary and linear solutions we can provide something for nearly every application.

CONTINUOUS MOTION

Designed principally for high volume applications requiring processing rates of 150–500 PPM, our continuous motion systems feature low maintenance, all servo based designs. This approach provides maximum flexibility in machine sequencing allowing us to mix indexing with continuous motion by use of electronic cam.

END OF ARM TOOLING

MGS provides the highest quality tooling designed specifically for our customer’s applications—providing precise and repeatable part handling solutions for any requirement or application. Our EOT systems are designed to be highly flexible in design, allowing us to handle customers’ unique requirements using our universal bases. We also offer custom designed tooling to fit your unique needs.

ABOUT US

MECHANICAL ENGINEERING

Our success is based on maximizing equipment uptime and effectiveness through deployment of specially seasoned-based designs. We understand the needs of manufacturing environments and continually strive to improve equipment reliability and sustainability.

ELECTRICAL ENGINEERING

Our machines feature top quality control hardware selection, organized implementation, and deployment of the industry’s latest communications and techniques. Our designs minimize control wiring reducing connection points which significantly outstanding results.

SOFTWARE DEVELOPMENT

We make machine control more intuitive and easier to use. Our powerful front-end software maximizes machine control, production reporting and troubleshooting. Our machines feature onscreen resource libraries with embedded manuals for nearly every installed machine component and feature.
AUTOMATION SOLUTIONS

MGS Automation Systems provide consistent manufacturing efficiency, integration flexibility, and cost effective operation and maintenance.

PRESS SIDE

With a consistent focus on providing over 260 injection presses in seven locations around the world. Our extensive knowledge of press side design allows us to offer out of the box solutions for products requiring either downstream or upstream manufacturing processes. We take control of the decision process, offering the right equipment, installation and integration between the injection mold, press, robotics and automation cell.

QUALITY CONTROL

MGS takes quality seriously and invests in resources, training, and equipment to perform in-house feasibility testing, qualification, and commissioning for process specifications. We have experience integrating and using the following technologies:

- Electrical Testing
  - Continuity
  - Resistance
  - Hipot
  - Dynamometer
- Measurement
  - Absolute scale encoder, LVDT
  - Laser displacement
  - Optical
  - Custom linear transducer
  - Specialty sensors
- Leak Inspection
  - Pressure decay
  - Vacuum decay
  - Flow testing
- Vision Inspection
  - Cosmetic
  - Measurement
  - Bar code identification/read
  - Feature recognition
  - Mold verification—closure confirmation

BENCH TOP

An ideal solution for parts and assemblies of nominal size and lower volume runs. Boost efficiency without a significant impact on your floor space or your budget. Our bench top solutions are a perfect way to automate a process while eliminating the cost of expensive feeders and orientation devices. Bench top equipment allows for perfect part placement with product provided through linear motion precision solutions.

CONTACT US

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MGS AUTOMATION—ENGINEERING FOR OPTIMUM PERFORMANCE

Industries: Medical, Electronics, Automotive, Energy, Consumer, Industrial & Packaging

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-2015 MGS Automation Systems, Inc.
MGS Automation was initially developed as an in-house resource supporting the rapidly growing operations of Wisconsin-based MGS Mfg. Group. Its early success paved the way for marketing custom automation solutions to other manufacturers. A truly automated solution includes more than intelligent machinery. Our engineers are devoted to every detail of your automated process. With our comprehensive understanding of manufacturing processes, MGS brings great attention to floor space, line design, and automation integration. From conception through final installation, we focus on each aspect of operation. Our wide range of automation platforms at MGS can configure a fully automated line that will assemble your parts in production and consistently evaluate quality.

MGS Automation is a division of MGS Mfg. Group. Founded in 1982, MGS is a leader in the highly competitive manufacturing supply chain. With more than 1,400 employees at 10 facilities here and abroad, MGS is the ideal partner to meet your greatest challenges and make your program successful.

INDEXING—ROTARY & LINEAR

The most common and typically the most cost-effective assembly solutions for applications with volumes requiring speeds ranging between 10–150 parts per minute (PPM). By offering both rotary and linear solutions we can provide something for nearly every application.

CONTINUOUS MOTION

Designed principally for high volume applications requiring processing speeds of 150–500 PPM, our continuous motion systems feature low maintenance, all-servo-based designs. This approach provides maximum flexibility in machine sequencing allowing us to mix indexing with continuous motion by use of electronic cams.

END OF ARM TOOLING

MGS provides the highest level of tooling support for all customers’ applications—providing process and responsible part handling solutions for any configuration or application. Our EATM systems are designed to be intuitive and feature an intuitive user interface that integrates all styles and brands of robotic systems.
MGS Automation was initially developed as an in-house resource supporting the rapidly growing operations of Wisconsin-based MGS Mfg. Group. Its early success paved the way for marketing custom automation solutions to other manufacturers.

A truly automated solution includes more than intelligent machinery. Our engineers are devoted to every detail of your automated process. With our comprehensive understanding of manufacturing processes, MGS offers solutions—such as budget, flow, time, the different strategies and strategies which can be pursued to achieve each one of our goals. Our wide range of automation platforms and our MGS configuration is fully customizable and will allow for assembly, parts production and consistency while maintain quality.

INDEXING—ROTARY & LINEAR

The most common and typically the most cost-effective assembly solutions for applications with volumes requiring speeds ranging between 10–150 parts per minute (PPM). By offering both rotary and linear solutions we can provide something for nearly every application.

CONTINUOUS MOTION

Designed principally for high volume applications requiring processing speeds of 150–500 PPM, our continuous motion systems feature low maintenance, all servo-based designs. This approach provides maximum flexibility in machine sequencing allowing us to mix indexing with continuous motion by use of electronic cams.

END OF ARM TOOLING

MGS provides a broad line of fixed tooling options for a wide range of applications—providing precise and consistent part handling solutions for any configuration or application. Our EDM systems are designed to be highly efficient and durable. We offer tooling options for all styles and brands of robotic systems.
MGS Automation Systems provide consistent manufacturing efficiency, integration flexibility and cost-effective operation and maintenance.

**AUTOMATION SOLUTIONS**

MGS takes quality seriously and invests in resource training and equipment to perform in-house feasibility studies to ensure our customers are making the right investments.

We have experience integrating and using the following technologies:

**QUALITY CONTROL**

- **Electricity Testing**
  - Continuity
  - Resistance
  - Hipot
  - Dynamometer Measurement
    - Absolute scale encoder, LVDT
    - Laser displacement
    - Optical
    - Custom linear transducer
    - Specialty sensors

- **Leak Inspection**
  - Pressure decay
  - Vacuum decay
  - Flow testing

- **Vision Inspection**
  - Cosmetic
  - Measurement
  - Bar code identification/read
  - Feature recognition
  - Mold verification—closure confirmation

- **Misc**
  - X-ray
  - Weight verification
  - Color check
  - RFID tracking

**PRESS SIDE**

MGS is an established molder running over 260 injection presses in seven locations around the world. This extensive knowledge of press-side design allows us to offer out of the box solutions for products requiring downstream and/or upstream molding processes. We take control of the entire work cell ensuring complete alignment and integration between the injection mold, press, robotics and automation cell.

**BENCH TOP**

An ideal automation solution for parts and assemblies of nominal size and lower volume runs. Boost efficiency without a significant impact on your floor space or your budget. Our bench top solutions are a perfect way to automate a process while eliminating the cost of expensive feeders and orientation devices. Bench top solutions often provide very fast payback and are ideal when automation moves from simple to complex operations.

**CONTACT US**

We invite you to take a tour of our automation facility. Ready to take action? Send over your RFP and allow us to prove MGS Automation is precisely the right choice.

MGS Automation—Engineering for Optimum Performance

**INDUSTRIES**

- Medical
- Electronics
- Automotive
- Energy
- Consumer
- Industrial & Packaging

**REV (08/16)**