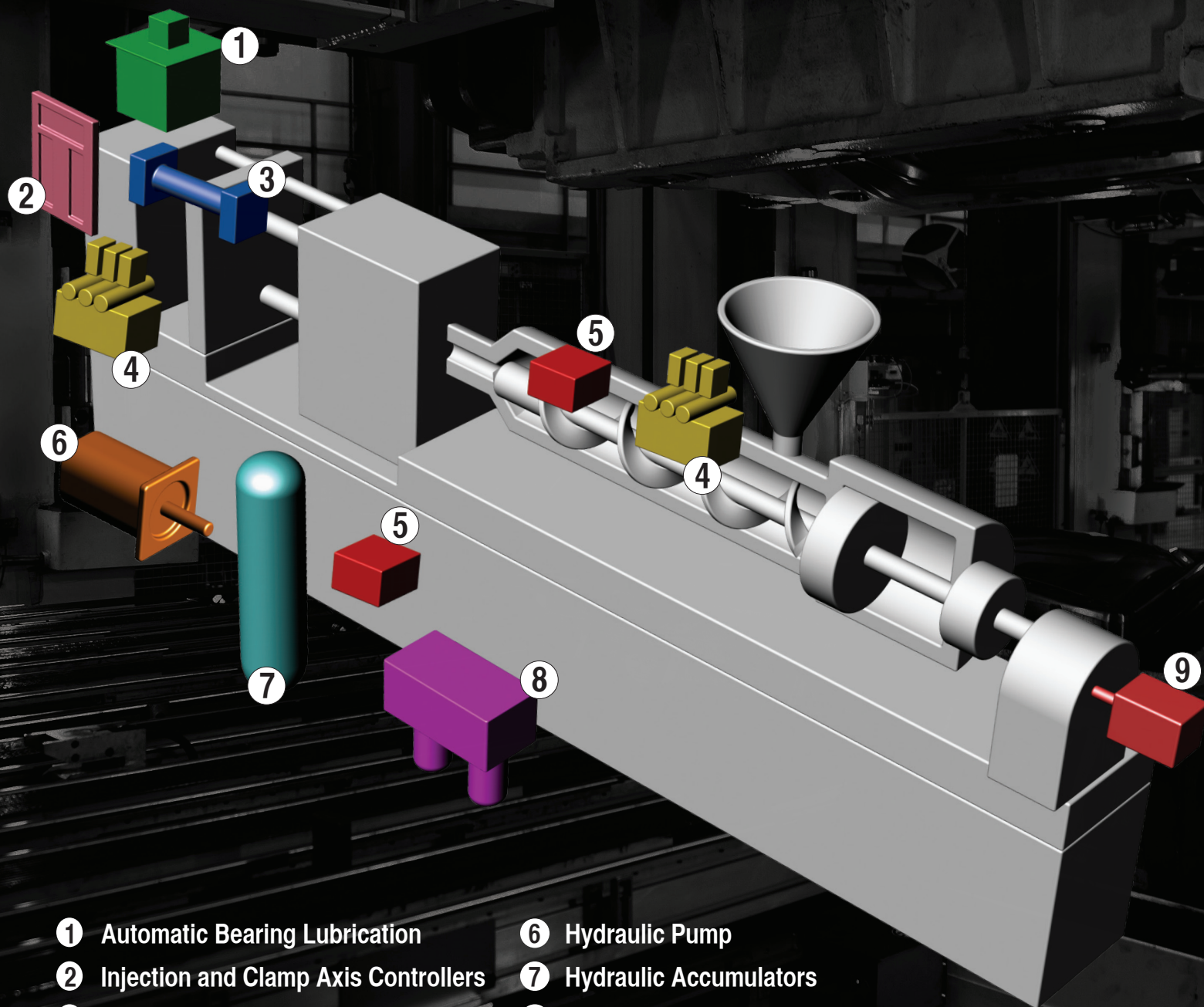


# *Solutions for* **UPGRADING PLASTIC INJECTION MOLDING MACHINERY**

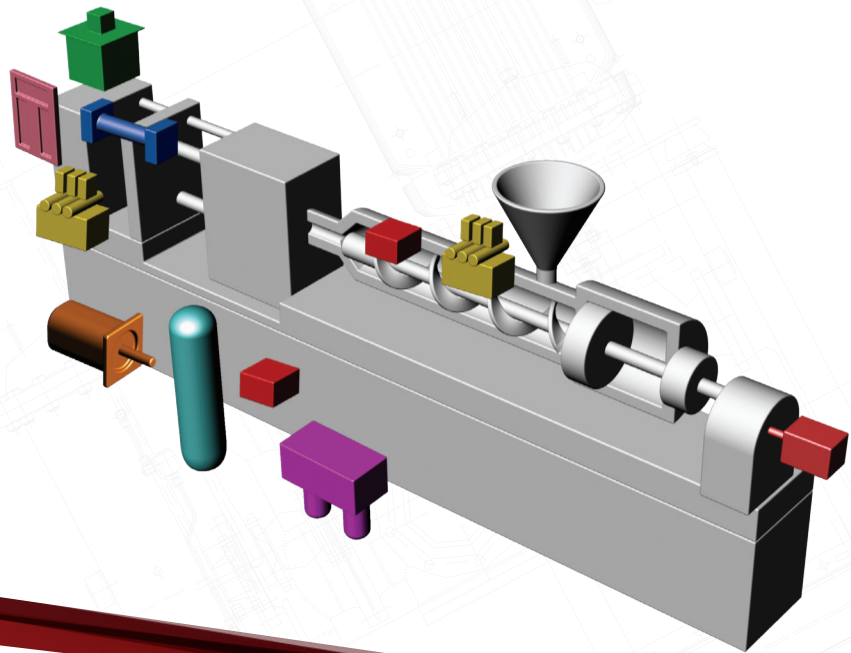


- ① Automatic Bearing Lubrication
- ② Injection and Clamp Axis Controllers
- ③ Hydraulic Cylinder
- ④ Hydraulic Valve Manifold Assemblies
- ⑤ Pressure, Temperature, Fluid Level, and Position Sensors

- ⑥ Hydraulic Pump
- ⑦ Hydraulic Accumulators
- ⑧ Hydraulic Fluid Filtration, Conditioning, and Monitoring
- ⑨ Hydraulic and Electric Motors

**morrell**

248-373-1600 | [www.morrellinc.com](http://www.morrellinc.com)



## Solutions for UPGRADING PLASTIC INJECTION MOLDING MACHINERY

Perhaps no other manufacturing sector is as globally competitive as plastic injection molding. The very nature of plastics in relation to other goods in the marketplace mandates consistent, high volume production at the lowest possible cost. Regardless of the intricacy of the final product, traditional plastic injection molding and insert molding operations must generate cost savings without sacrificing quality while amplifying the rate of production. Morrell has solutions to optimize the production of plastic components. We work with the largest plastic injection machinery integrators to provide the hydraulic, electrical, pneumatic, filtration and controls architectures to retrofit their customers' machines. Internal maintenance departments depend on our engineering capabilities, extensive product portfolio, and factory authorized service and repair programs to get the most out of their capital investments. Morrell assists our customers' in the plastic injection molding industry through our ability to retrofit existing machinery with solutions that enhance quality through precise control, efficiency and superior performance.

### ***Engineering, Manufacturing, & Quality Support:***

- Facility Planning
- Process Planning
- Product Planning
- Reverse Engineering
- Laser & White Light Scanning
- Ergonomic Studies
- Virtual Prototyping
- Component Sizing & Selection
- Engineering Support
- Manufacturing
- Electrical Engineering
- Field Wiring
- Electrical Control & Panel Design
- Full System Installation

### ***Solutions for Upgrading Plastic Injection Molding Machinery:***

- Safety
- Hydraulic Pumps & Electric Motors
- Hydraulic Pumps & Cylinders
- Hydraulic Valve Manifold Assemblies
- Hydraulic Accumulators
- Injection & Clamp Axis Controllers
- Pressure, Temperature, Fluid Level,  
& Position Sensors
- Automatic Bearing Lubrication Systems
- Hydraulic Fluid Filtration & Conditioning

### ***Engineering & Build Standards:***

- UL Certified
- NFPA
- CE
- CUL
- OSHA
- 2003 ISO 9000/2000
- 2004 TE 2000
- 2006 ISO 9001:2000
- 2009 ISO 9001:2008

### ***Collaborators***

**morrell****stegner**  
controls**WESS**  
VIRTUALLY DERIVED. EFFICIENTLY APPLIED.**SKF****Rexroth**  
Bosch Group  
Industrial Hydraulics**HYDAC****Rexroth**  
Bosch Group  
Drives & Controls