



JR AUTOMATION TECHNOLOGIES, LLC

AUTOMATED SWING ARM BEARING PRESS CASE STUDY

INTELLIGENT DESIGNS

FAST FACTS:

- In business since 1980
- 120,000 sq. foot facility
- 210 employees
- North of Holland, MI

JR Automation Technologies, LLC staffs ingenious, qualified professionals who design and build solutions for efficiency and speed, customized for your specific needs. Whether that means machines or process development, the JR team has a smart, lean solution to your challenging project.



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CHALLENGE:

Provide a machine that ensures parts are free of flash and installs bearings with the correct force and distance.

SOLUTION:

- Equipment:
 - Hypercyl cylinders capable of 8 tons of force
 - Convenient part bins for LH/RH parts
 - Customized floating C-Frame design
 - Robust Destaco clamps
 - Balluff Linear Transducer
 - Integrated load cells
 - Fibro-optics
 - PLC - Allen Bradley SLC-500
 - HMI - Allen Bradley PanelView 600

Integrating both the RH/ LH stations into one comprehensive machine provided the customer with a unique solution. The Automated Swing Arm Bearing Press is an all inclusive machine with poke-yoke capabilities, robust integrated equipment, fast and efficient bearing installation and customized floating C-Frame design. The successful application of the Automated Swing Arm Bearing lead to the development of a strong relationship with the customer. Therefore the design, build and installation of numerous new jobs.

OUTCOMES & BENEFITS:

- Decreased the cycle time considerably
- Minimized the need for 2 workers down to 1
- Consistent and efficient bearing installation