



Robotic Press Brake Tending

Robotic press brake automation systems offer increased productivity for metal fabricators. Press brake automation systems use robots to perform bending operations on the metal sheet using press brake machines. These machines apply force to bend metal along a predetermined axis. Robots can increase the productivity, accuracy and safety of press brake operations by reducing the need for manual labor and thus human error.

There are different types of robotic press brake automation systems depending on the size, shape and complexity of the parts to be bent. Some systems use standard robot arms that are integrated with existing stand-alone press brakes. Our tending systems have press brakes with large open heights and can operate with minimal setup time.

Our systems require offline programming and simulation to create the bend and robot programs. Systems can be designed specifically for bending and can reach in and around the tool zone to form small and intricate parts.

COMMON APPLICATIONS

- High-volume jobs that dominate one press brake and operator
- Highly repetitive tasks not suitable or safe for manual labor
- Low-volume jobs that are intermittently reoccurring
- Large parts that are difficult to handle or may take more than one operator to maneuver



MIDWEST ENGINEERED SYSTEMS INC.

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WHY PARTNER WITH

Midwest Engineered Systems

Since 1991, MWES has provided automated manufacturing solutions that our customers and partners trust and depend on. We bring our world-class capabilities to any project with solutions that will bring about improved throughput and a return-on-investment.

No matter the industry, our dedicated staff of engineers are adept at understanding specialized and diverse processes from a variety of production environments, to deliver systems that are designed to solve the unique problems each customer is looking to solve.

YOUR AUTOMATION Solutions

- Full Factory Automation
- Assembly Line Automation
- Robotic Welding
- AGV & AMR Integration
- AS/RS Buffer Systems
- Web Handling & Converting
- Case Packing Automation
- Robotic Palletizing & Depalletizing
- Food Handling & Forming
- Vial Filling Automation
- Robotic Press Brake
- Standard Machine Tending
- Robotic Bin Picking
- Robot Laser Cutting
- Custom Machines
- New Product Introduction
- Additive Manufacturing
- Proof of Principle Testing

INTELLIGENT

EXPERIENCED

DEDICATED

WE ARE INNOVATION THROUGH AUTOMATION

RESPONSIVE

EFFICIENT

SUPPORTIVE

TRUST US WITH YOUR DATA

MWES is ITAR Compliant

We pride ourselves on our secure facilities, systems and processes that ensure our customer's and partner's trade secrets is our top priority.

WE HAVE YOUR BACK WITH 24/7

Customer Service & Support

We offer prompt **24/7** service and support for all of our products and provide support for systems developed by other automation integrators.

- Technical support
- Preventative maintenance
- Replacement parts
- On-site system integration
- Operator, programmer & maintenance training
- Field service for most robot brands
- Productivity improvements
- System retrofits & upgrades
- HMIs – standard & custom
- System modernization
- Offline programming
- Entire automation system audits

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