

Compact PressMaster™ Control System for Mechanical Stamping Presses

Reduce operating costs and downtime with reliable and flexible programmable press controls.

Overview

The Rockwell Automation Compact PressMaster System is a cost competitive, programmable controller-based system used for the control and monitoring of mechanical stamping presses. Reduce cost and risk by purchasing a complete system, pre-wired and tested, ready for installation. The system is designed to modernize your press controls, increase control system reliability, and reduce downtime by providing comprehensive operator diagnostics. Compact PressMaster provides press users, rebuilders, and OEMs a low cost PLC based control system to remain competitive and reduce risk

System Description

The Compact PressMaster System is a pre-engineered press control system based on standard Rockwell Automation components available locally and supported worldwide. Compact PressMaster Systems provide press control, operator interface with comprehensive diagnostics, expandability, and motor controls in a single integrated package. The system is provided, ready to install, with a complete set of documentation.

The Compact PressMaster System is based on a Bulletin 6556 clutch/brake control with dual processors and software designed by Rockwell Automation to help customers comply with ANSI B11.1, OSHA 1910.217, CSAZ142-M90, and EN 954. Allen-Bradley motor controls and an Allen-Bradley PanelView 5.5" monochrome operator interface with keypad is included, to complete the system and provide maximum reliability.

Results

A Compact PressMaster System will help provide the following:

- Reduced downtime through advanced diagnostic messages, helpful operator prompts, and on-line control system troubleshooting.
- Reduced costs and improved system reliability through the use of standard Rockwell Automation industrial control hardware, field-proven application software, and a comprehensive documentation package.
- Increased operational flexibility and expandability, while reducing costs and risk.



Compact PressMaster Functionality

The Compact PressMaster system is a standard, but expandable, press control system. The standard/optional functions include:

Standard Functionality

- Safety Interlocks and Light Curtain Interface
- Clutch/Brake Safety Control with Inch, Single Stroke, Continuous, Micro Inch, and Die Setup Modes of Operation, including a mode select key switch
- Main Motor Control, including a 25 Hp reversing motor starter and forward/stop/reverse pushbuttons
- Lubrication Control, including a 1 Hp motor starter and lube verification
- 60 Amp / 460V Flange Mounted Disconnect
- Press Mountable, NEMA 12 Rated Industrial Enclosure
- Operator Fault and Prompt Messages, Alarm Status Operator Screen on a 5.5" PanelView Display
- One Industrial Brushless Resolver

**Rockwell
Automation**
Global Manufacturing Solutions

- Brake Time Monitoring and 90 Degree Stop Test
- Interface for One Run Station with Anti-Tiedown Protection
- Press Stroking Anti-Repeat and Top Stop Overrun Protection
- Clutch/Brake and Counterbalance Air Pressure Monitoring
- User Immediate and Top Stop Control Interlocks
- 4 Programmable Limit Switch Outputs

Optional Functionality

- Manual or Automatic Slide Adjust
- 8 Channels of Die Protection
- 8 Programmable Limit Switch Outputs
- Hydraulic Overload Control
- Light Curtains with muting
- OEM packages

Legacy Systems

Many systems in the field today are based on relays or "black box" controls. These systems are often inflexible, difficult to troubleshoot, limited in features, and expensive to maintain. The Compact PressMaster solution provides a superior control system with built-in flexibility, a substantial set of features and low maintenance costs.

Other Press Control Systems

Rockwell Automation offers a complete line of standard and custom press and automation control solutions for the pressroom. Solutions are available for a mechanical stamping press (gap, straight side, transfer), tandem line, hydraulic press, forging presses, die casting, feeder control, servo transfer feed, and other motion control applications. The **AxisPro™** inter-press automation motion control systems and **TandemPro™** supervisory systems designed to provide line control and pressroom production data acquisition, are also available. **PressPro** press control systems are also available to provide customers a custom engineered solution, for total press and automation control.

For More Information

Contact the local Rockwell Automation sales representative or authorized Rockwell Automation distributor for a **PressPro** system quotation worksheet. Complete the worksheet and return it to the Rockwell Automation MetalForming Automation Control Solutions team, using the telefax number or e-mail address listed on the worksheet. The worksheet will be used as the basis for a proposal for the configuration selected. Further information is also available on the Internet at www.rockwellautomation.com/metalfforming.

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www.rockwellautomation.com

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