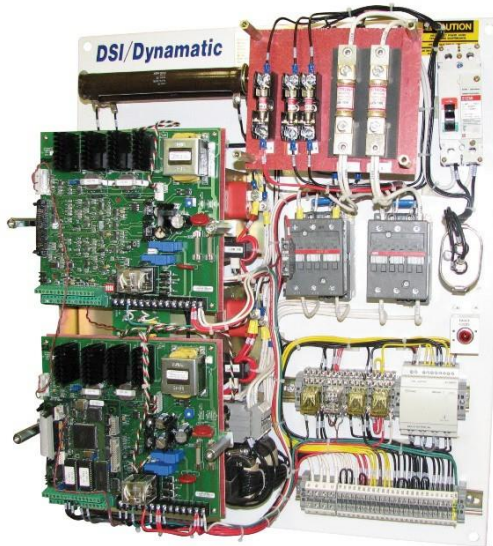


## SPECIALTY PRODUCTS EC-2000 CES Press Control



### Description

The EC-2000HP CES Press Drive Control is designed to replace vintage CES Controllers that do not require position capability built into the control. On these systems, the starting, stopping, and stroking of the press is controlled by an external press controller, utilizing an independent resolver, programmable limit switch or cam switches. Some of these systems use torque control alone, while others can benefit from velocity control. The EC-2000HP CES Press Drive control is built using the same proven hardware platform as the standard CES control. This hardware is combined with a new cost-effective software platform used on the standard EC-2000 and EC-2000HP controls, providing programmable Mutuatrol® (speed) or torque mode. Testing includes individual analysis of each board and component. The entire control is run for 9600 cycles at 131° F (55°C) for over 24 hours nonstop in our full-size CES certification cell prior to shipping.

### Features & Benefits

- Two programmable modes of operation – open loop current mode or Mutuatrol velocity (speed) mode with programmable dead band.
- Allows different size drives to be controlled with a single control. Reduces parts and control inventory requirements.
- DC LEM circuit feedback protects the clutch and brake with programmable current limits.
- Independently adjustable acceleration and deceleration with timed braking delay after stopping.
- Parameters allow for fine-tuning of the press operation for maximum performance.
- Set point flexibility makes interfacing with a computer system or a programmable logic controller easy.
- Allows the press control system to monitor the status of the CES drive and press at all times.
- Direct interchangeability with existing Dynatomic analog and digital CES controllers.



**SPECIALTY PRODUCTS**  
**EC-2000 CES Press Control**

**Specifications**

|                              |                                                                                                                              |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Input Voltage                | 460V, 3 Phase, 60 Hz                                                                                                         |
| Output Voltage               | 600 VDC, 72 Amp (Clutch), 54 Amp (Brake)                                                                                     |
| 115 VAC Input Signals        | N/O - Power Side<br>N/O - Neutral Side<br>N/O - Clutch Contactor<br>N/O - Brake Contactor<br>N/O - Inch<br>N/O - Fault Reset |
| 115 VAC Output Signals       | E-Relay<br>Fault Relay                                                                                                       |
| Error Detection              | Over-Speed<br>Under-Speed                                                                                                    |
| Power Circuits               | Clutch & Brake - AC Line Contactor<br>Clutch & Brake - Over Current Protection                                               |
| Mutuatrol, (Dynamic Braking) | Solid State Speed Regulation Control                                                                                         |
| Keypad                       | Program Display<br>Data Display<br>Inch/Run Function                                                                         |
| Monitoring                   | 2 Analog Outputs<br>Tachometer Feed Back Signal                                                                              |
| Dimensions                   | 27"H x 23" W x 12" D                                                                                                         |
| Weight                       | 75 lbs Nominal                                                                                                               |
| Optional Accessories         | Tachometer Generator<br>NEMA 12 Enclosure<br>Integration & Start Up Assistance<br>Loose Speed Potentiometer                  |