



Promess Electro-Mechanical Assembly Machine

Stand Alone CNC Assembly Press & Monitoring Machine (Lab or Offline)

Unlike older mechanical, hydraulic and pneumatic assembly presses, Promess's CNC electro-mechanical assembly press technology is the foundation for truly intelligent assembly operations, which offer new levels of quality, productivity, and flexibility.

The machine is designed for a variety of uses, including production, off line testing, lab development work, training and back up.

Typical applications include a wide variety of press demands, such as press to force/position, pull to a force/position, and part testing, all at the same station. A graphical process certification of each manufactured part is available, if required.

Specific applications include, but are not limited to:

- Springs
- Check Valves
- Shock Absorbers
- Anti-Lock Brakes
- Oxygen Sensors
- Fluid Measurements

The platform design for the flexible assembly press and closed loop measuring system include:

- Multi Parts
- Multi ID systems
- Multi Force
- Multi Positions
- Multi Direction
- Multi Sensors

The electro-mechanical assembly press operates on easy-to-use Promess software and features a graphical user interface for quick set-up or changeovers. The system includes integrated sensing and indicators that can be operated with the push of a button or the click of a mouse.

The assembly press's ability to simultaneously monitor and control both force and position whether pushing or pulling, and take in other external sensor information as well, enables new strategies, which promise to change quality assurance from reactive to an in-process, proactive concept.



Standard System Includes:

- Computer with monitor, keyboard, and pointing device
- An intelligent controller (Promess EMAC) to take in a variety of signals from external sensors and gages.
- Windows Based, Icon Driven Software
- An encoder equipped servo motor to drive a ball screw press ram.
- C-Frame Press Stand with Palm Buttons
- Electro-Mechanical Assembly Press with integrated force and distance sensors.

Optional System Components:

- External position sensors
- Bar code input capability
- Enclosures
- Touch screens
- Others