Electro-Mechanical Assembly Press

A fully programmable electro-mechanical assembly press with on-board force monitoring

If you're not using our technology now, are you pressing your luck?

PROMESS

The Assembly Trend

You must have flexibility coupled with complete control.

Assembly Requirements Include:

Multi-Positions
press to several positions within a single process

Multi-Assembly
assemble different parts on the same line

Multi-Force
press with full control to several different force loads within a single process

Multi-Decisions
press, measure then press again to make a bad part good

Multi-Directional
press and measure, pull and measure, within a single process

Multi-Sensing
within a single process

The Promess EMAP System

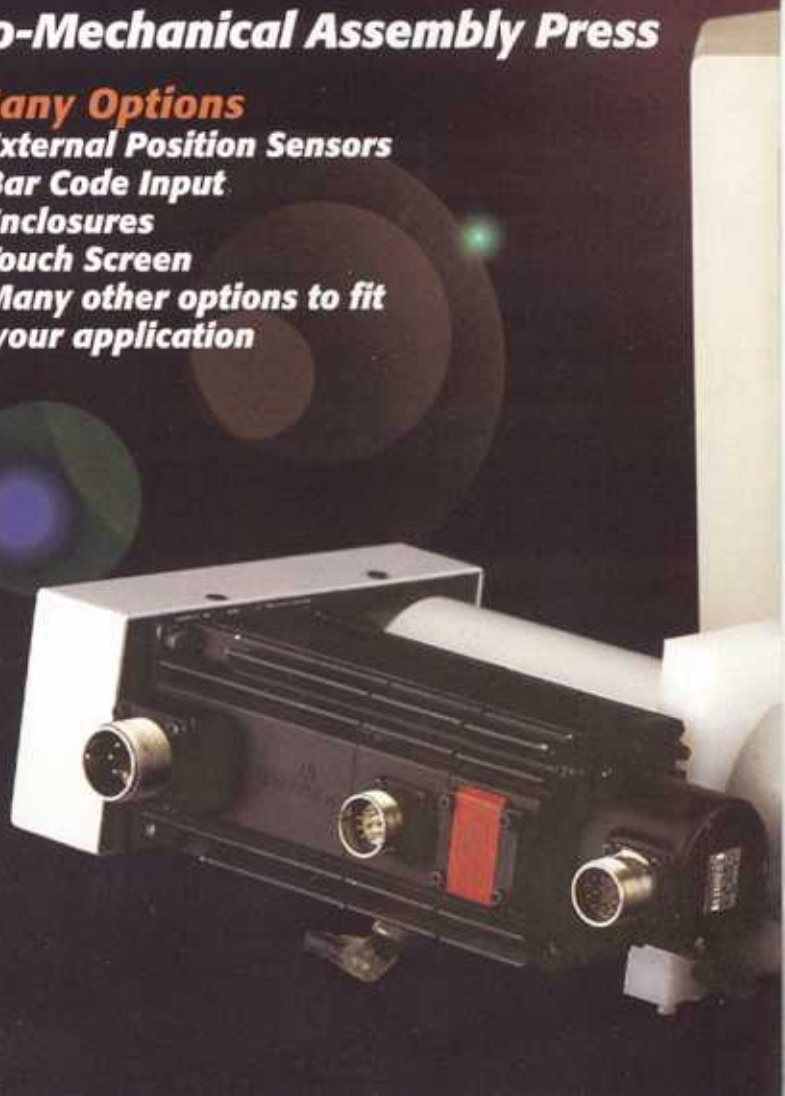
A fully programmable CNC Electro-Mechanical Assembly Press

Easy Operation
The system which includes integrated sensing and graphical displays can be operated with the push of a button or click of a mouse.

Easy Programming
Simple Windows based software featuring a graphical user interface for quick set-up or change-overs.

Consistent, Precise Movement
The ball screw driven press unit provides precision movement with programmable stop points.

Many Options
- External Position Sensors
- Bar Code Input
- Enclosures
- Touch Screen
- Many other options to fit your application



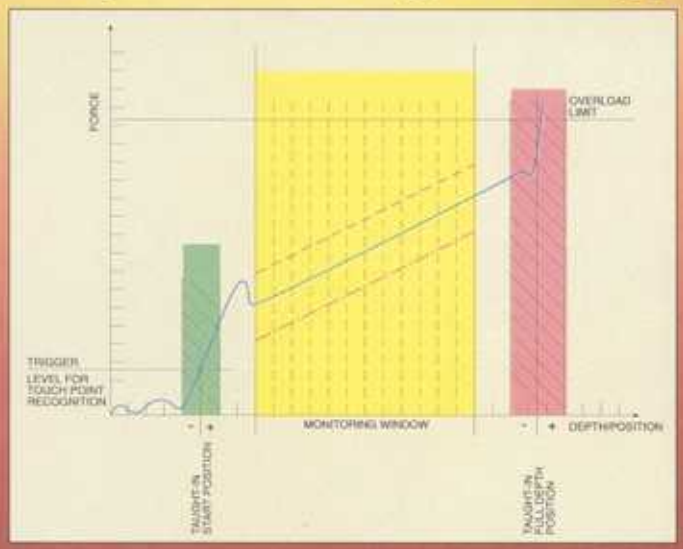
The Promess Answer

Monitor and control the entire assembly process.

PROMESS is a sensing company, first and foremost. We know that the only way to guarantee product quality, is to understand and control what the product feels at the time of assembly. Systems currently on the market have no sensing capability, or they measure force only at peak-load, as a result they provide little or no relevant information to the operator.

The Promess EMAP System was designed and built with integrated sensing and force monitoring capabilities. Its unique ability to accept input data from virtually any external source, combined with the precision movement of its Electro-Mechanical Assembly Press, truly makes this the press of the future.

Our Assembly Monitoring Strategy



The Future Is Now

In the future, precision and flexibility won't be an option... They will be a requirement!

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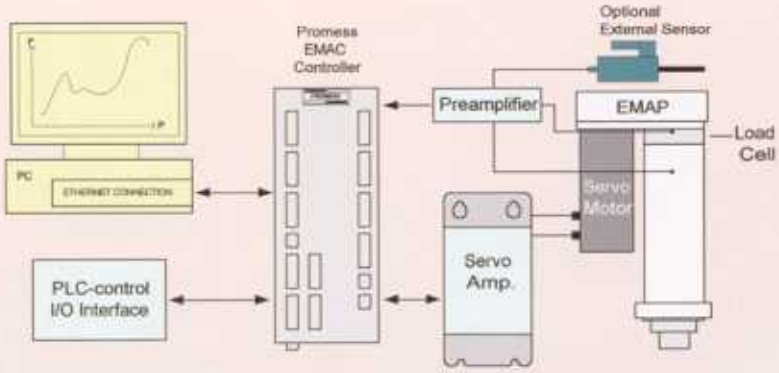

Features & Benefits

CONTROLLED TRANSPARENT PRECISION

- Flexibility
- Move to a position
- Move to a force
- Move to an external sensor
  - External signals can include: force, position, flow, pressure, temperature, etc.
- Gauging functions
- Signature monitoring
- Data acquisition and storage
- Network Multiple systems
- Multiple part programs
- Measuring capability in both directions
- Easy programming

LOAD RANGE

- 200 lbs (1kN) to 340,000 lbs. (1,500 kN)

Promess provides:

- Ball screw servo driven press head
  - Integrated force transducer
  - Preamplifier
  - Servo motor and amplifier
- EMAC – Promess Multi-axis controller with Windows® - based software
- Cables
- PC with MS Windows® - based software

PROMESS

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