

Electro-Mechanical Assembly Press

EMAP 1kN

Industrial need for higher precision assemblies at lower press forces has placed increasing pressure on the manufacturing industry to create more compact, higher precision, longer lasting assembly and test equipment.

In order to better meet this demand, Promess has designed the 1kN Electro-Mechanical Assembly Press to optimize size and increase performance.

Despite reducing the overall size of the system, the size of critical wear components including the ball screw, ram and guides are maintained or increased extending the service life of the system. Increased rigidity makes the overall system more accurate and repeatable.



FEATURES AND BENEFITS

- Flexibility
- Closed-loop movement to a position or force
- Closed-loop movement to an external sensor
- External signals can include: force, position, flow, pressure, temperature, etc.
- Gauging functions
- Signature monitoring
- Data acquisition and storage
- Network multiple part programs
- Calibrated for work in compression or tension
- Easy programming

OPTIONS

- PC
- External position transducers
- Additional load cell ranges
- Additional sensor integration (pressure, flow, temperature, etc.)

EMAP INCLUDES

- Ball screw servo driven press head
 - Integrated force transducer
 - Preamplifier
 - Servo motor and amplifier
- Promess motion controller with Windows® based software
- Cables
- Enclosure

MONITORING CAPABILITIES

- Force/position signature monitoring
- Force signature is learned by a teach-in process
- Adjustable process limits and tolerances
- Display of force/position graphs, zooming and printing
- Gauging functions
- Data acquisition and storage



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