

Rotational Electro-Mechanical Assembly Press

REMAP

As every application places different demands on assembly and test systems, Promess has designed a complete line of electro-mechanical rotating press systems to provide a solution for the most demanding applications with an off the shelf tool – the Rotational Electro-Mechanical Assembly Press (REMAP).

The REMAP is extremely versatile due to the complete independent control of linear and rotational motion using independent servo axis. They include integrated sensing of force and torque as well as position and angle.

The REMAP is compact and easy to integrate into both new and existing systems. Unlike traditional linear/rotational systems involving complex designs and controls, the Promess REMAP comes in one complete, ready to run package.

Included with the system is the Promess application and programming software. Through the Promess HMI, each axis of motion can be independently and simultaneously controlled. The software capabilities include the ability to create and store force versus position and torque versus angle signature curves.



Features / Capabilities

- Press ram extends, retracts and rotates
- All motion independently controlled
- Programmable position, velocity, acceleration, angle, angular velocity, angular acceleration, relative and absolute limits
- Press to position
- Turn to angle
- Press to force
- Turn to torque

REMAP Includes

- Two fully programmable axis of motion
 - Linear extend and retract
 - Spindle rotation
- Integrated force transducers
- Integrated torque transducers
- Promess Controller with Windows based software
- All required drives, electronics and cables

Monitoring Capabilities

- Signature monitoring, any combination of:
 - Torque vs. angle, force vs. position, force vs. torque, force vs. angle, torque vs. position, etc.
- Gauging of sensing data points such as force, torque, position and angle (single point, minimum, maximum, and average) values
- Adjustable process limits and tolerances

Options

- External position / rotation transducers
- Additional load cell ranges
- Additional torque transducer ranges