



Metriguard Model 830

QL-3: Panel Bending Test Machine

Description

The TECO QL-3 Panel Bender tests 4' X 4' panels based on ASTM D3043 (Method C), "Standard Methods of Testing Structural Panels in Flexure." The QL-3 provides the ability to measure panel deflection in both the parallel and perpendicular direction and takes the panel to ultimate load.

The QL-3 consists of two rotating posts that produce a load across the panel. The posts are driven by electronically controlled hydraulics. The panel deflection is measured by a digital encoder, eliminating the need for micrometers or other manual measurements. From an operating point of view, one person can easily run the QL-3 to perform the ASTM D3043 test on a panel. The operator loads the test specimen into the Panel Bender and prompts the computer to run the test. The computer will ask the operator to enter specific information such as the panel thickness and span rating, the producing plant identification, the thickness of the specimen being tested, a control number assigned to the specimen and any other user- or application-specific information. After this data is entered into the computer, the QL-3 will run the first half of the test. The QL-3 will pause and release the panel, allowing the operator to rotate the panel for testing in the subsequent position.

When all tests are completed, reports provide the following information:

- Average Panel Thickness
- Panel Density
- Panel Stiffness (EI) in both parallel and perpendicular orientations
- Ultimate Load at Failure (MOR)
- Maximum Moment
- Floating Average of Panel Stiffness Results

The test information is stored electronically in several different formats so that the information can be used in conjunction with other statistical process control software. The test results are stored in a database on the computer, giving the user the option to export data in electronic form (data is saved in a comma-delimited ASCII text file).

*Dedicated PC and monitor included. Printer to be provided by client. *Input single-phase power 115V/230V @ 20A/10A

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