



RAUTE PANEL BENDING TESTER - OFFLINE (FORMERLY KNOWN AS METRIGUARD 830)

Product overview

The Raute Panel Bending Tester - Offline lets you test your panels to assess and improve their quality, strength and stiffness. This enables you to ensure they meet the standard your customers demand. The Panel Bending Tester - Offline is ideally suited for use in quality control labs as also for Plywood and OSB (oriented strand board) mills for in-house quality checking. Being able to test your board properties in-house makes it easier and quicker to check lay-up formulas and ensure that your design properties are maintained.

Accurate testing

The Panel Bending Tester - Offline uses the ASTM D3043 (Method C) test method to accurately measure the stiffness and strength of structural panels. It measures panel deflection using a digital encoder so there is no need for micrometers or other manual measurements. The test sequence is automated and the resulting data is recorded and stored automatically. In addition, the Panel Bending Tester - Offline includes network connectivity for easy access to test data and records.

The Raute Panel Bending Tester - Offline provides accurate test data for:

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



Technical specifications

GENERAL

Length	58" [147 cm]
Width	39" [99 cm]
Height	81" [206 cm]
Mass	2900 lbs [1315 kg]
Min. Clearances	130 x 87 x 81 inches [330 x 221 x 206 cm]
Lifting Method	Forklift or Pallet Jack

ENVIRONMENT

Operating Temperature	60°-80°F [15°-27°C]
Operating Humidity	<95% R.H Non-Condensing
Radiated Noise:	<80 dB -- Typical

TEST DETAILS

Recommended Use	Testing of 7/16" to 7/8" thick 4' x 4' OSB/PlywoodvPanels
Test method	ASTM D3043 (Method C)
Allowable panel thickness	¼ inches to 1 1/8 inches [7 mm to 28 mm]

ELECTRICS

Voltage	115 VAC /230 VAC *specified at purchase
Amperage	20 A/10 A
Frequency	50 Hz/60 Hz *specified at purchase
Phase	Single
Connector Type	IEC 60309 Compliant
Cord Type	IEC 60227 or 60245 Compliant

NETWORKING

Type	10-BaseT Ethernet (IEEE 802.3)
Protocol	TCP/IP
Cable Type	Category 5, 8 twisted pair
Connector Type	RJ-45

HYDRAULICS

Recommended Fluid Level	1 US Gallon [3.8 L]
Pump Flow Rate	1 GPM [3.8 LPM]
Maximum Operating Pressure	1200 PSI [82.7 Bar]
Fluid Viscosity	46.2 cSt @ 40° C, 6.90 cSt @ 100° C
Hydraulic Fluid	Benz Oil Petraulic 46
Recommended Flushing	Benz Oil Unifilm 10 [3.8 LPM]



Caution

Take care not to overfill the hydraulic reservoir

PNEUMATICS

Minimum Operating Pressure	60 PSI [4.1 Bar]
Maximum Operating Pressure	110 PSI [7.6 Bar]
Filtration	3 µm