

PARAM™ NLW-20 Adhesive Tensile & Shear Tester

Adhesive tensile & shear tester is designed and manufactured conforming to GB 7124, which is the measuring method for adhesive elongation and shear. Its performance satisfies the requirements of GB 5164, GB 6328, ISO 4587, ISO/DIS 6922, 6237, JIS K6850, 6849, ASTM D1002, D2095, D3165, D2339 and HG4-852-854. It is applicable to elongation, shear, and peel off tests for automotive adhesive.

**Characteristics**

Microcomputer control, digital display, professional software support.

Man-machine conversation, input testing parameters, standard unit, no need of manual conversion.

Satisfy elongation, shear, and peel off tests for sheet, stick or other shape samples.

Analyze group tests, output arithmetic average, maximum and minimum value.

Micro-printer prints out testing result, parameter and time.

RS232 enables data communication. Powerful function, easy to operate, stable performance.

Structure principle

It is made up with mainframe, controller, and hydraulic pressure pump. Hydraulic pressure pump produces the testing force. Force measuring system employs highly accurate load cell. Control system gathers, monitors, processes and transmits the data rapidly.

Technical index

Specification: 20kN

Accuracy: $\pm 1\%$ of force reading

Force resolution: 1N

Test speed: 5~50mm/min

Stroke: ≤ 150 mm

Ambient condition: Temperature 10~35°C Humidity 20~60%RH

Power: AC 220V 50Hz / 60Hz

Dimension: 1090(L) mm x 610(B) mm x 640(H) mm

Net weight: 125kg (include hydraulic pressure pump oil)

Function

- Parameter setting: input testing time, area (length, width or diameter), times and other data through key-press.
- Record testing time automatically.
- Stops automatically, maximum force (kN) and testing strength (MPa) are displayed scroll.
- Single testing result and processed group testing results could be printed.
- Various speed of 5 ~ 50mm/min could be produced by adjusting the actiyator.
- Combine the actiyator and timer to adjust various testing time of various requirements, to simulate constant-load testing mode.
- Memorise automatically while power off.

Operation steps

Adjust testing speed(empty load or pre-load)--adjust clamp distance-- clamp specimen--press button "set" to set the shear length and width(or diameter of testing stick), printing times, transmitting times, testing date and time.--press button "run" to start the test--test--stop automatically-- LED displays maximum elongation force at broken point(kN, strength MPa) --scroll --print --transmit --replace the specimen

Note: a. if the parameters of next test are different, users can set the parameters as the steps above. If they are the same, users can press the button "run" to start the testing directly.

b. This tester has function of "memorize while power off", when power is on again .displayed parameters will be former ones of last time, if they are same, users can start the test directly.

Configuration

Standard: mainframe, controller, hydraulic pressure pump, shear and elongation jaws

Optional: Aluminum alloy shear testing panel, stainless steel shear testing panel, aluminum alloy elongation stick, communication cable, software, scroll jaws, compress and shear jaws.

Standard

ASTM D1002, ASTM D2095, ASTM D3165, ASTM D2339, ISO 4587, ISO/DIS 6922, JIS K6850, JIS K6849, GB 7124, GB 5164, GB 6328, HG4-852-854