

Load Test Stand LTS-B series

2023/12/27

Features



- Strength testing with simple operation
- For tensile/compression/bending testing

Bag opening force, bond strength, peel strength, adhesive strength, film tensile strength, press-fit and riveted component extraction force measurement, material and product bending strength measurement.

Uses an encoder to measure displacement, and measures displacement with a resolution of 0.01mm.

- Revolutionary design

Prominent digital display, easy-to-use key placement, and space for samples and jigs.

- Full range of convenient functions and safety devices

force auto zero function, test force display range selection ($\times 1$ to $\times 10$), load cell registration, sample rupture detection function, interface function (USB 2.0/1.1 compliant), overload prevention function, load cell, data acquisition software, interface cable provided as standard.

Specification

Specification name	Specification contents
Maximum test force	50 N / 200 N / 500 N / 1 kN
Movable crosshead	20~ 310 mm [20 ~ 460 mm] between the chucks

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2023/12/27

stroke	(when the optional chuck PCH-500N-012 is applied.)
Movable crosshead speed range	<ul style="list-style-type: none"> · Standard test speed · S500 : 50, 100, 200, 300, 400, 500 mm/min · S400 : 40, 75, 100, 200, 300, 400 mm/min · S300 : 30, 50, 100, 150, 200, 300 mm/min · S200 : 15, 20, 50, 100, 150, 200 mm/min · S100 : 10, 20, 30, 50, 75, 100 mm/min · S50 : 5, 10, 20, 30, 40, 50 mm/min · S20 : 1.5, 2, 5, 10, 15, 20 mm/min
Return speed	Test speed or RAPID RETURN (maximum speed selection), with zero-overshoot function
Speed Accuracy	Speed setting $\pm 3\%$ (with no load)
Displacement measurement resolution	0.01 mm
Test force display	Range 1: -50.00 to $50.00/-200.0$ to $200.0/-500.0$ to $500.0/-1\ 000.0$ to $1\ 000.0$ Range 10: -5.000 to $5.000/-20.00$ to $20.00/-50.00$ to $50.00/100.00$ to 100.00 5-digit digital display
Measurement range	selectable from [x1] and [x10]
Measurement accuracy	Relative reading error $\pm 1.0\%$ (equivalent to JIS B 7721 Class 1)
Peak detection function	Test force value and position value at the peak is displayed after completing the test by select mode.
Auto zero	Automatic zero is adjusted by [ZERO] key.
Analog output	-5 VDC to +5 VDC (output connector: BNC female)
Safety device	Overstroke prevention limit switch Stops movable crosshead movement during operation. Upper/lower limits for movable crosshead movement range can be set as desired.
Emergency stop switch	Shuts off all power when operated.
Overload prevention function	Stops movable crosshead when test force reaches 102% of the load cell rated capacity
Interface function	(USB connector port) USB2.0 compliant; can also be used with USB1.1 standard devices (Connector B type female), communication cycles: 20 times/s
Power supply voltage / frequency	Single phase 100 VAC ± 10 VAC 50/60 Hz
Power consumption	Approx. 300 W
External dimensions (W×H×D) (mm)	475 mm x 710 mm x 347 mm [475 mm x 860 mm x 347 mm] (excludes protruding parts)
Weight	Approx. 18 kg [19 kg]
Standard accessories	Load cell (select one from 50 NB, 200 N, 500 N, or 1 kN), 100 V AC power supply cable (2.4 m with 2-pin adapter), mid-gauge fuse (5 A), USB interface cable (2 m), instruction manual (1 copy), data acquisition software (1 CD-ROM including USB

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2023/12/27

Accessories	driver)
Options	Cable for analog output , Data processing software for tension, compression and bending test (SR-09-001), Data processing software for peel test (SR-09-002)

parts Specification Sheet

Parts No.	CAD files[DXF]	Specification sheet
LTS-50NB	LTS-200NB-500NB.zip	LTS-50NB No.ENLTS4150
LTS-200NB	LTS-200NB-500NB.zip	LTS-50NB No.ENLTS4150
LTS-500NB	LTS-200NB-500NB.zip	LTS-50NB No.ENLTS4150
LTS-1kNB	LTS-200NB-500NB.zip	LTS-50NB No.ENLTS4150