ARMSTRONG

WDS-20

Dual-Column Touchscreen Tensile Tester

A servo-driven test frame for materials testing. The TS7003L touchscreen shows live force and displacement, captures peak readings and prints results through the built-in printer.



Product illustration. Confirm the machine configuration and accessories in your quotation.

Rated force	Test speed	Maximum travel
500 kgf (approx. 4.90 kN)	1 to 500 mm/min	800 mm without fixtures

Supplied and supported by Hung Ta Instrument.

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Applications and Specifications

Test rubber, plastics, film, wire, cable, textiles, nonwovens and waterproofing materials, as well as suitable metal wire, foil, sheet and bar specimens. With the appropriate fixtures, run tensile, compression, shear, tear, adhesion or 90- and 180-degree peel tests.

Parameter	Specification
Rated test force	500 kgf (approx. 4.90 kN)
Frame and drive	Dual-column frame with servo motor
Controller	TS7003L touchscreen
Load resolution	1/25,000
Load accuracy	+/-1%; confirm the applicable measurement range
Maximum travel	800 mm, excluding fixtures
Test speed	1 to 500 mm/min, set on the touchscreen
Data sampling rate	10 Hz
Display and printing	Live and peak readings; built-in printer
Force units	kgf, N and lbf; other units depend on controller configuration
Machine dimensions	1010 x 490 x 1730 mm
Machine weight	Approx. 150 kg
Power supply	Single-phase 220 V; nominal 6 A. Check the nameplate.

Available test methods and travel depend on the selected grips, fixtures and configuration.

For a quotation

Send the specimen material and dimensions, test method, expected force range, required fixtures and reporting needs. Confirm warranty and service terms in the Hung Ta quotation.

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Before and During a Test

Prepare the machine and specimen

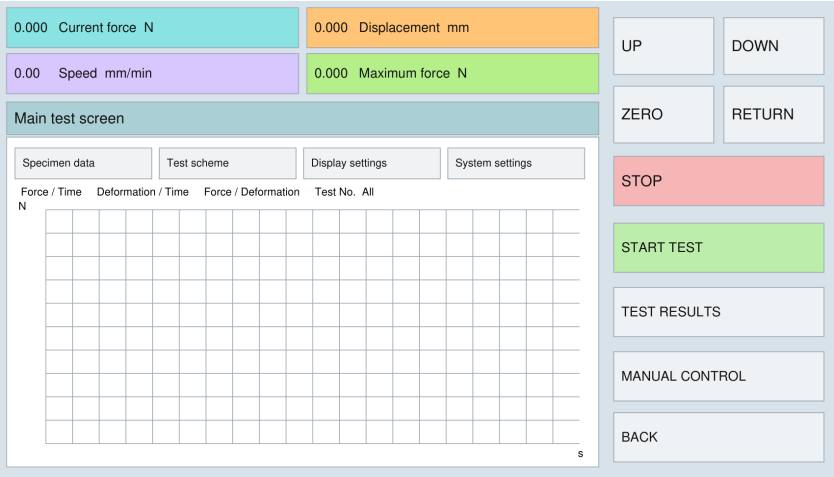
Follow the safety markings and operating manual. Use a stable surface, connect the protective earth and match the electrical supply to the nameplate. Leave wiring and high-voltage work to trained service personnel.

Prepare specimens from the same batch in accordance with the test method. Check the upper and lower travel limits and fixture fasteners. Jog the crosshead slowly to align the grips, then centre and secure the specimen.

Run the selected method

Choose English on the touchscreen, enter the specimen details and select the test plan. Confirm travel clearance, select the force unit and zero the readings as required by the method. Start the test and monitor the live and peak readings.

Control	Action
Start / Stop	Start the selected test or stop motion.
Zero / Test Results	Zero the readings or open the results screen.
Up / Down	Jog the crosshead to position the grips.
Return / Manual Control	Run the configured return motion or set the manual jog speed.



Main test screen

Screens show example values. Menu labels and return behaviour may vary by controller version and settings.

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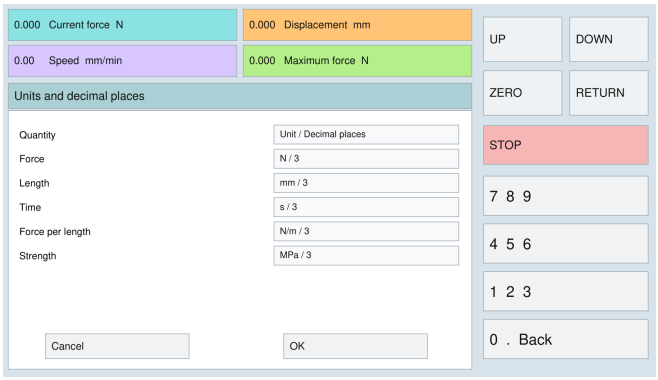
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Controller Settings

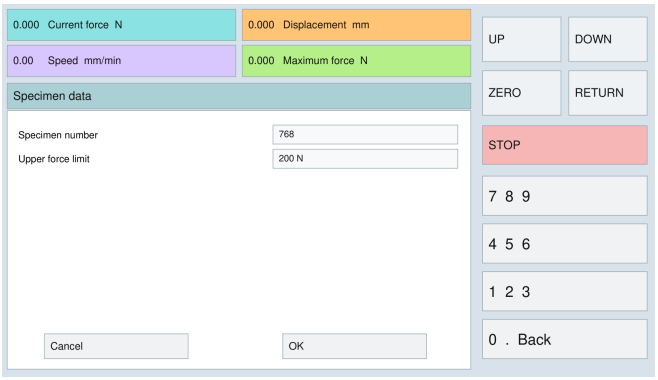
Units and specimen data

Select units for force, length, time, force per unit length and stress as needed. Typical choices include N, kN, kgf, lbf, mm, in, s, min and MPa. Set display precision to 0 to 3 decimal places.

Enter the specimen ID and upper force limit.



Units and decimal places



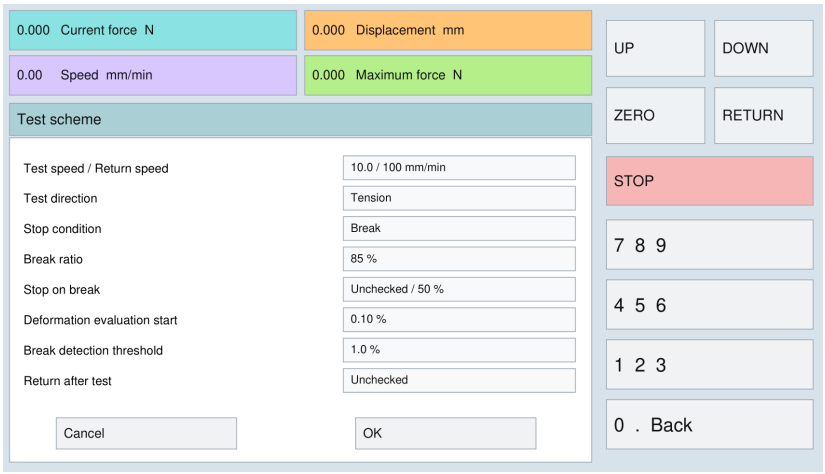
Specimen settings

Test plan and limits

Set the test and return speeds, test direction and stop condition: break, deformation or force. Enable automatic return only if appropriate for the test.

For force-hold tests, set the target force, hold time, deceleration and the point at which holding starts. Configure stop-on-break and deformation evaluation settings where available.

An 85% break ratio and a break-detection threshold of 1% of load-cell capacity are controller examples. Select values appropriate to the test method.



Test plan and stop conditions

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Results, Printing and Support

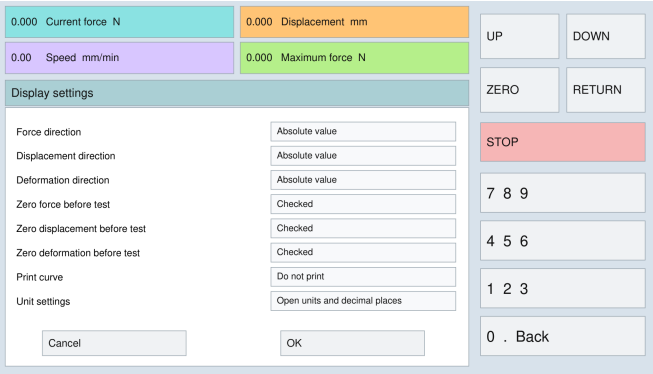
Review and print results

Use Test Results to review an individual test or the stored results. Available results depend on the method and may include peak force, deformation at peak force, tensile strength, tear strength or peel strength.

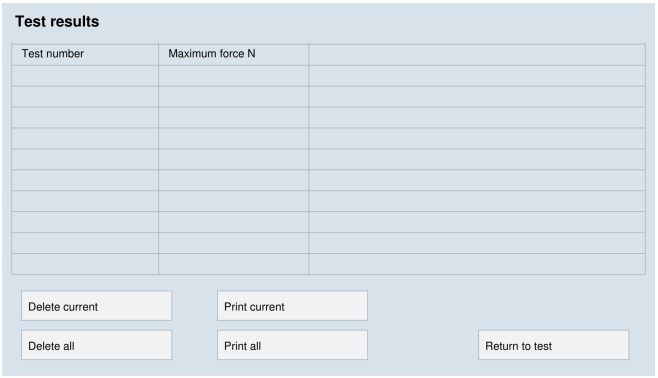
Print results before switching off. The controller displays up to 50 result sets, replaces the oldest when full and does not retain results after power-off.

Set the display for the method

Set the display units, precision and available curve options for the method. Check the sign convention, zero-before-test and curve-print settings where supported.



Display settings



Results and print controls

Care and service

Install the machine on a stable surface and allow adequate ventilation. Do not move it during operation. Clean it after use, wipe the controller with a dry cloth, and lubricate the mechanical components as directed in the operating manual.

If the machine behaves abnormally, stop using it. Do not bypass travel limits or open live panels. Give Hung Ta the model, serial number and a brief description of the fault.

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