Cap Torque Tester
TD-H Series

A&D Weighing



Touchscreen Simplicity. Professional Analysis.

Three-Peak Analysis

Identify abnormalities throughout the opening cycle.



1st peak
Torque when the cap begins to turn

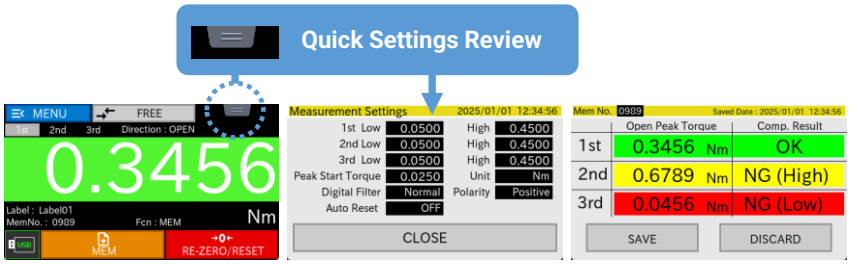
2nd peak
Torque when the tamper-evident bridge breaks

3rd peak
Torque when the split band breaks

Touchscreen Interface

Improved visibility and intuitive operation.

- 4.3-inch LCD with 18 mm-high numerals
- Color-coded OK/NG results for the 1st to 3rd peaks
- View all current test settings in a single screen with one touch.

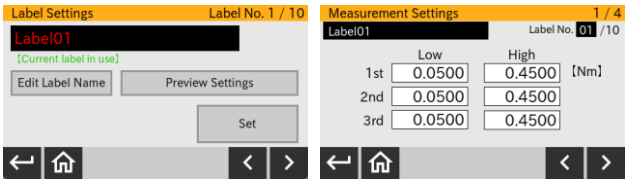


Product Label Registration

Supports efficient multi-line inspection.

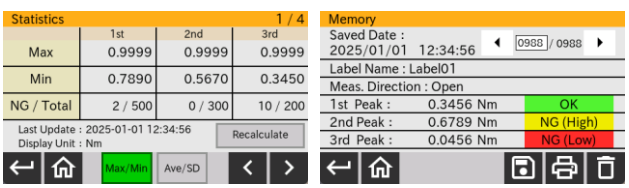
- Manage up to 10 production lines with dedicated labels and settings for clear result classification.





Extensive Memory & Flexible Display

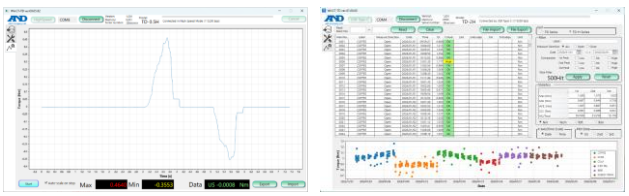
- Stores up to 1,000 records for over one day of continuous testing.
- Export data to a USB flash drive or print reports in batches.
- View timestamps, labels, and measurement results on a single screen.
- Flexible filtering functions enable versatile data analysis.



Data & Waveform Analysis Software

Analyze measurement results and opening characteristics.

- Visualizes behavior that cannot be identified from peak values alone, supporting process improvement and troubleshooting.
- Manage and edit settings centrally on a PC.



Specifications

Model		TD-0.5H	TD-2H	TD-5H	TD-10H
Full scale (F.S.)		0.5 N·m	2 N·m	5 N·m	10 N·m
Measurement range		-0.5050 to 0.0000 N·m 0.0000 to 0.5050 N·m	-2.020 to 0.000 N·m 0.000 to 2.020 N·m	-5.050 to 0.000 N·m 0.000 to 5.050 N·m	-10.10 to 0.00 N·m 0.00 to 10.10 N·m
Display resolution		0.0001 N·m	0.001 N·m	0.001 N·m	0.01 N·m
		0.01 N·cm	0.1 N·cm	0.1 N·cm	1 N·cm
Accuracy		±0.3% F.S.			
Supported workpiece (Chuck range)		φ10 to φ190 mm			
Max. workpiece mass		1 kg or less	7 kg		
		*For TD-0.5H loads over 1 kg and up to 5 kg, accuracy is ±0.5% F.S.			
Mass		Approx. 6 kg			Approx. 9 kg
Overload indication		When torque exceeds 101% of the upper measurement limit: LCD displays “Over Torque!!" and the buzzer sounds			
Measurement modes		Peak Hold (Free / Open / Close), Continuous Measurement			
Memory	Memory capacity	Stores up to 1,000 records total for 1st, 2nd, and 3rd opening peaks and closing peak			
	Statistical functions	Average, maximum, minimum, standard deviation, defect rate			
Judgment function		OK/NG judgment for 1st, 2nd, and 3rd opening peaks and closing peak			
Clock		Adds date and time to torque data and records it in internal memory			
Data output	USB Type-C	USB 2.0 or later; transfers memory data, settings, and torque values			
	RS-232C	Prints memory data on an RS-232C printer Recommended: AD-8126 (A&D), including dedicated cable			
	USB Type-A	Transfers memory data and setting files to a USB flash drive			
External output		Comparator upper-limit, lower-limit, and overload outputs			
Supported software		Data can be imported using WinCT-TD PC software* *Available as a free download from the A&D website.			
Power supply		Main unit: 5 VDC/1 A			
		Dedicated AC adapter (included): 100 to 240 VAC, 50/60 Hz			
Internal battery		Coin-type primary lithium battery (BR2032), for clock only			
Dimensions		216 (W) × 319 (D) × 150 (H) mm (including holding pins)			
Operating environment		Temperature: 0 to 40° C; humidity: 85% RH or less (no condensation)			

Options

TD-RUBBERFEET Rubber Feet (TD) (with screws, 4 pcs)
TD-PIN-1 Holding Pin1 (TD) (Rubber, 4 pcs)

Accessories

AD-8129TH Compact thermal printer
AX-USB-9P USB converter
AD-8541-SCALE Bluetooth® converter (for PC connection)
AD-8541-PC Bluetooth® dongle for PC
AX-TB301 AC adapter
AX-KO7215-150 USB power cable

WinCT-TD

- Windows data communication software for TD-H Series
- Acquire, display, save and analyze measurement data
- Memory data, statistics, graphs and time-series waveform

Free download: A&D Software page

A&D Weighing

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