

Standard

ISO 7500-1, ASTM E4, ASTM D-76, DIN 5122, JIS B7721/B7733, BS EN1002-2, BS 1610, GB/T 228

Industry

Paper, Tape, Electronics, Medical, package and others



Machine Description

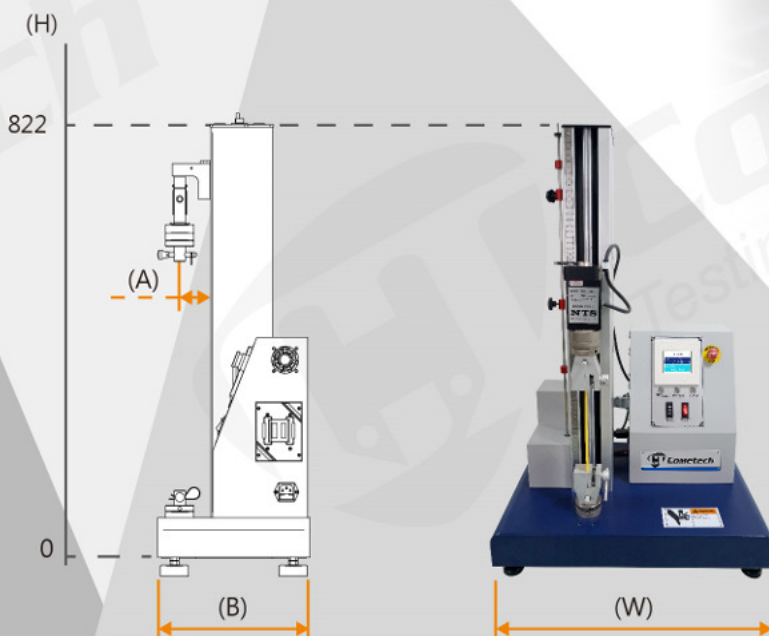
QC-528D3 Tensile Testing Machine equipped with a 2.8-inch touch panel, offering an intuitive user interface with versatile functions and ease of use. The machine can display real-time force variations and supports recording and retaining the maximum force value, along with a graphical test curve for easy and comprehensive monitoring of test data.

This model features a DC motor design, which not only enhances operational safety but also adapts to a wide voltage range, providing greater convenience for users. In addition, the tensile testing machine's speed can be flexibly adjusted according to testing requirements, ensuring high accuracy of test results and fully meeting the needs of diverse testing applications.

With the optional testing software, the machine can establish bidirectional communication and operation with a personal computer. It supports a variety of testing and analysis needs, including tensile, compression, bending, peeling, and adhesive strength tests. The system offers multilingual display and the ability to switch freely between metric and imperial units. Equipped with a comprehensive data analysis platform and diverse testing modules, it enables precise and efficient testing operations to meet various testing requirements.

Machine Specification

Control Performance		
Force Resolution	24	bits
Force Precision	0.5% / 1% (Note 1)	
Stroke Resolution	0.001	mm
Data Sampling Rate	50	Hz
AD Input Signal	1	set
Transmission System		
Motor	100W 24V DC Motor	
Speed Range	2 - 500	mm/min
Speed Precision	20 - 500 ±1%	mm/min
Data Processing System		
Network Protocols	TCP/IP	
Analysis Modules in Optional Software	Over 170	
Language in Optional Software	Chinese, English, Japanese, Korean, Spanish	
Safety Mechanism		
Hardware Protection	Upper/ Lower limit, emergency stop button	
Protection in Optional Software	Force, displacement, time protection	
CE Marking	Machinery directive 2006/42/EC	
Electrical Specification		
Power Supply	Single phase 100 - 240V, 5A	
Max. Power	1100	W



Model	QC-528D3	
Capacity	200	N
Test Stroke	400	mm
Test Space (A)	55 (80)	mm
Width (W)	500	mm
Depth (B)	270	mm
Height (H)	822	mm
Weight	27	kg

Note 1: depends on the precision of chosen loadcells

Machine Features

Simpler Operation with Various Functions

Compact and lightweight, the machine is easy to carry and move to wherever testing is needed.

It's ideal for handling small samples and is well-suited for industries such as electronics, food, and pharmaceuticals.

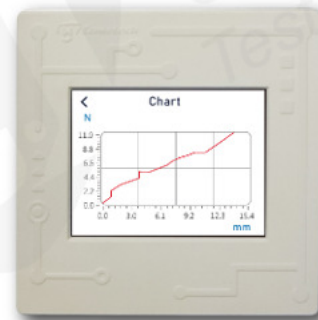
The system supports a wide power input range of 100 - 240V, reducing restrictions caused by different regional power standards and making the machine more flexible and adaptable to various environments.

Digital Speed Setting

A dedicated closed-loop motor driver delivers precision close to that of a servo motor. Test speeds can be set digitally, allowing for a wide range and highly accurate speed control.

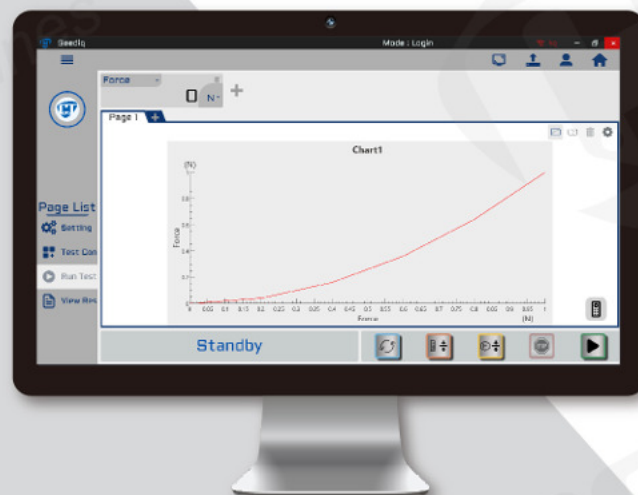
2.8-Inch Touch Screen

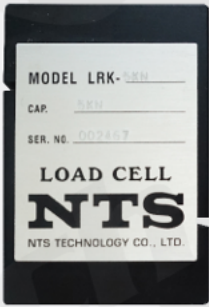
- Basic test method: Tensile, Compression, Peeling
- Memory of test conditions, with one-touch test start
- Real-time display of force-displacement and force-time curves
- Metric and imperial units available
- Stroke, force, and time limit protection
- Break-point stop and automatic return
- Stores up to 10 data entries
- Languages available: Chinese, English, Japanese



Optional Accessories - Software

- Analysis Data
- Operating Platform: Windows Operating System
- Color Display with Chinese, English, Japanese, Korean, and Spanish language options
- Operating Mode: TCP/IP Interface for computer connectivity
- Simultaneous output of multiple test results
- Unit Selection: Various Metric and Imperial Units Available
- Flexible table layout allowing customization of data presentation
- Customizable naming for data
- Test Screen Displays Test Values, Graphs, or Both Simultaneously
- Data Processing: Save, Recall, List, Compare, etc.
- Curve Settings: Force, Elongation, Displacement, Time, Stress, Strain, etc.
- Supports Tensile, Compression, Bending, Peel Testing
- Software Protection: Over test stroke, Overload Protection, Over-time Shutdown





Features

- The loadcell is designed with built-in chips that record its specification and calibration parameters. There is no need to reset the loadcell when it is replaced. The relevant parameters can be read directly and there is no limit on the loadcell replacement numbers.
- The accuracy of Cometech grade A/B loadcells can meet international standards.
- Loadcell of various types and capacity is provided according to your requirements.
- The loadcell is conveniently removable with regular tools.

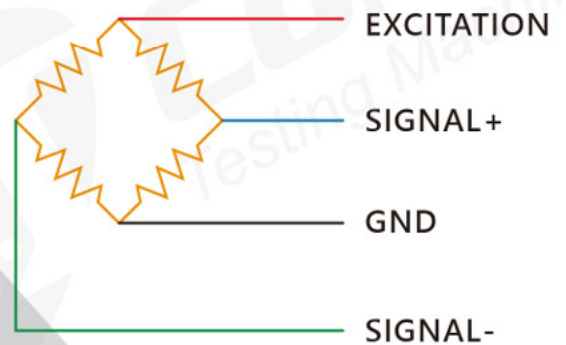


Specification

Controller System	Grade A Loadcell	Grade B Loadcell
D3	1-100% $\pm 0.5\%$	1-100% $\pm 1\%$
Safe Overload	140%	120%

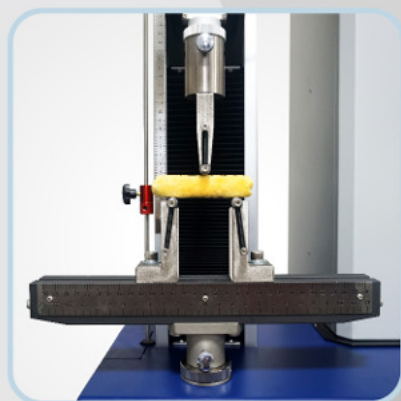
How to Choose a Suitable Loadcell?

- Loadcell capacity is not the larger the better. The recommended range of loadcell application is between 1-99%. Testing force evaluation is suggested before selection of a loadcell; It is recommended to choose one with its capacity twice larger than the maximum testing force.

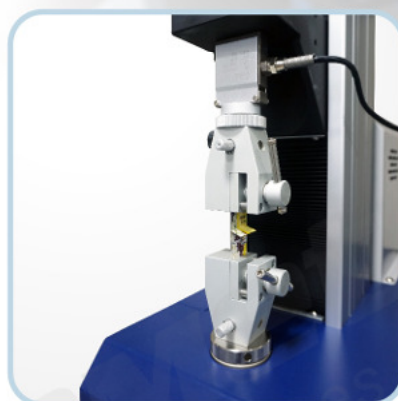


Grip Application

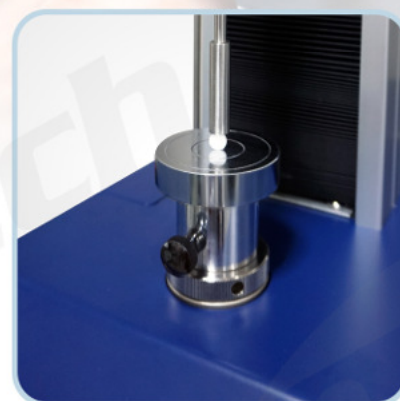
Cometech Testing Machines offers a selection of over 200 standard grips, enabling customers to apply them to various testing standards, along with supporting customized grip services. Cometech is committed to providing customers with precise and convenient grip solutions to achieve the best testing accuracy. Below is the reference URL for the standard grip series: <https://www.come-tech.com.tw/en/Products/Grips>



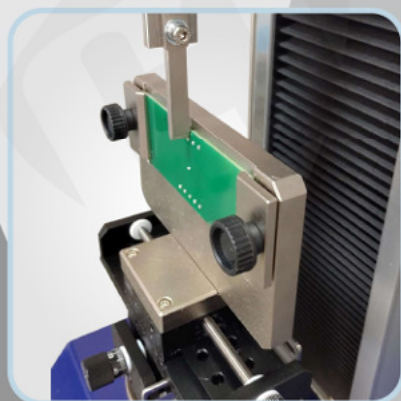
Food Crispness Testing



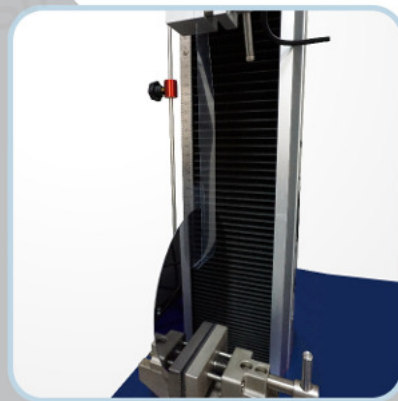
Food Packaging Testing



Medicine Compression Testing



Chip Bending Test



Wafer Tape Peel Testing



90° Peeling Test

* Cometech reserves the right to modify product specification.

COMETECH TESTING MACHINES CO.,LTD.

No. 49, Ln. 39, Liancun Rd., Fengyuan Dist., Taichung City 420082, Taiwan (R.O.C.)

Tel: 886-4-25368881 / Fax: 886-4-25368883

E-mail: sales@come-tech.com.tw

URL: <http://www.come-tech.com.tw>

