

# THt500

A tablet breaking force tester featuring advanced and precise measuring technologies.



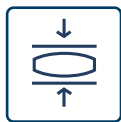
## PRODUCT DESCRIPTION

The THT500 is a versatile tablet-breaking force tester designed to analyze various physical characteristics of tablets, which are an oral dosage form. The breaking force test, also known as the hardness test, offers a load range of up to 500N and allows users to set desirable test speeds (mm/sec) and force increments (N/sec). In addition to hardness measurement, the THT500 is capable of providing other measurements such as length, width, thickness, and weight (using an external scale).

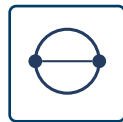
## 5 PARAMETERS



Breaking  
Force



Thickness



Diameter



Width



Weight



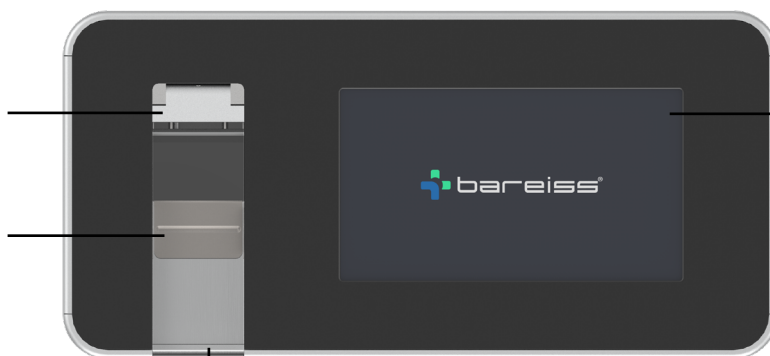
Operation aborts immediately if hatch opens in emergency.

Dual-sided guiding block for easy sample orientation.

Disposal bin for quick collection of sample debris.

Enhance your Usability with an intuitive UI on a 7-inch touch display.

Easy calibration with an external calibration device.



## ECO-FRIENDLY & SUSTAINABLY

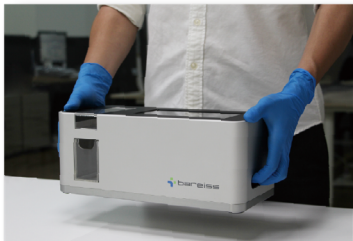


As a manufacturer, we recognize the importance of participating in the global effort to reduce carbon footprint. The THT500 is designed to minimize the number of parts and incorporate reusable materials.



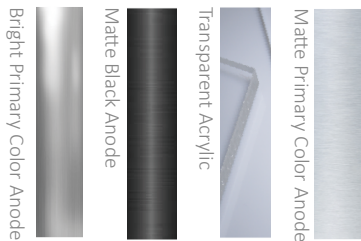
### COMPACT DESIGN

The THT500 is constructed with 26 mechanical parts, emphasizing portability and lightweight design.



### ERGONOMIC AND PORTABLE

The built-in recessed handle provides an ergonomic means of transportation, allowing users to easily carry the device from one place to another.



### SUSTAINABLE MATERIALS

95% of THT500 is made from recycled aluminum, greatly enhancing its sustainability.



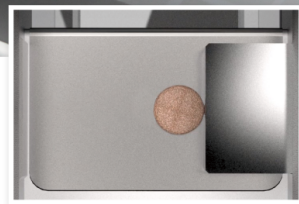


### OPTIMAL VISIBILITY AND ENHANCED SAFETY

The transparent hatch on the THT500 enables users to clearly observe the entire process of measurement operations.

### INTERCHANGEABLE GUIDING PLATES

The THT500's dual-sided guiding plate accommodates various tablet shapes, aiding orientation during measuring with its flat and grooved sides.



Flat side for flat tablets



Grooved side for curved  
tablets

### INDICATOR LIGHTS

The indicator lights provide status information to operators for their quick visual judgment about the current status of the machine.



Standby



In Operation



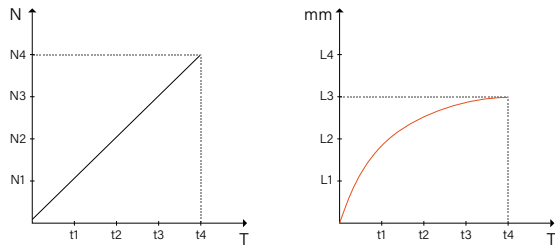
Error



## CONSTANT SPEED AND FORCE

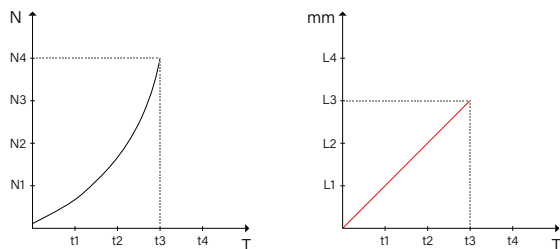
### Constant Force

Under this test method, users can select a force linear increment rate ranging from 10 to 200 N/sec.



### Constant Speed

Other than the constant force method, the constant speed method allows users to set constant testing Speed from 0.01-3 mm/sec.

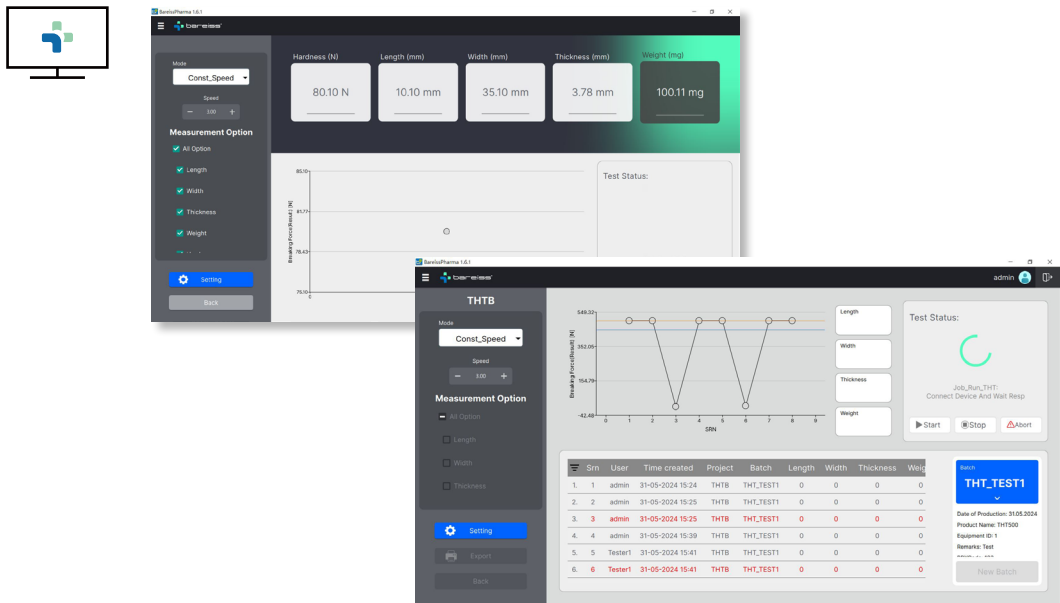


### THT500 WITH BALANCE

The THT500 provides an RS232 interface for establishing a connection with an external balance for weight measurement. The data is synchronized in real-time between the Instruments.









## CELESTE SOFTWARE

CeLeste is designed to facilitate your data collection, analysis, approval, and reporting processes. It complies with 21 CFR Part 11 regulations to ensure data integrity, security, and confidentiality of electronic records and signatures. Features such as advanced user management, complete records of all users' activities in an audit trail, electronic signatures, and data mapping from one database to another are all at your fingertips



## MAIN SOFTWARE FEATURES



 <p>ODBC</p> <p>DATA MAPPING</p>	 <p>NO MODIFICATION OF ORIGINAL RECORDS</p>	 <p>AUDIT TRAIL</p>	 <p>USER ACCESS RESTRICTION</p>
 <p>E-AUTHENTICATED RECORDS</p>	 <p>DIRECT PRINT FROM AUDIT TRAIL</p>	 <p>PASSWORD SECURITY</p>	 <p>DATABASE BACKUP AND RESTORE</p>

## PRODUCT SPECS

Distance for width, length and thickness	Measuring range	1 - 36 mm
	Resolution	0.01 mm
	Units of measurement	mm / inch
Force for hardness	Measuring range	3 - 500 N
	Accuracy	+/- 1N
	Units of measurement	N (Newton) / kgf (Kilogram force) / lbf (Pound Force)
Weight	Units of measurement	mg (Milligram) / g (Gram) / kp (Kilopond) / lb (Pound)
Measuring principle	Constant force	10 - 200 N / sec
	Constant speed	0.01 - 3 mm / sec
Interfaces	2 x USB 2.0	
Power supply	100- 240 V, 50-60 Hz, 90 W	

THT500		
Configuration	Hardness	●
	Diameter / Length	●
	Width	●
	Thickness	●
	Weight (Integrated)	—
	Weight (External)	○
Dimensions / Weight	LWH 320 x 155 x 130 mm / approx. 9.5 kg	
Software	CeLeste™	○

## EXTERNAL DEVICE COMPATIBILITY

Shimadzu	ATY124R/ATY224R/ATY324R/ATX124R/ATX224R/ATX324R
Mettler Toledo	MES4T/ME54TE/ME104T/ME104TE/ME204T/ME204TE/ME103T/ME103TE/ME203T ME203TE/ME303T/ME303TE/ME403T/ME403TE/ME503T/ME503TE/ME1002T ME1002TE/ME2002T/ME2002TE/ME3002T/ME3002TE/ME4001T/ME4001TE MS304
Epson	TM-T82III

MADE IN GERMANY SINCE 1954.

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