

TABLET HARDNESS TESTERS - 5 PARAMETER - TAB SERIES



To ensure that pharmaceutical pills and tablets have the ideal casing, a tablet hardness tester is required to accurately analyze the mechanical integrity of a tablet. Torontech offers four 5-parameter tablet hardness tester models, each measuring weight, thickness, diameter/length, width, and hardness, so you can match sample throughput, compliance level, and budget to your quality control workflow.

ToronTAB™ 5 — With Tilt Sensing Device



Measures weight, thickness, diameter/length, width, and hardness on virtually all tablet shapes, including round, oval, oblong, and unique shapes. Runs on a 7" full-color touchscreen, tests up to 1,000 samples per run, and its stainless steel body complies with cGMP regulations. A tilt-sensing device automatically adjusts the display orientation during verification and calibration.

EHT-5PR



Builds on the standard 5-parameter platform with an embedded printer, storage for up to 10,000 products, and a full audit trail. Complies with 21 CFR Part 11, making it a fit for regulated pharmaceutical facilities that need electronic records alongside physical hardness, weight, thickness, diameter, and width testing.

EHT-5PR TURBO



A compact 5-parameter tester built for faster, lighter QC runs of up to 100 samples per test. Keeps the constant speed/constant force measuring principle, an embedded printer, and a protective dust cover, with flexible 10-role user management for teams that need finer-grained access control.

SWFT-5



Torontech's highest-compliance 5-parameter model, adding a fingerprint sensor on the weighing scale and electronic signature (E-signature) authentication on top of the audit trail. Running on integrOS Pro, it is built for fully validated, 21 CFR Part 11 environments where operator-level traceability matters as much as the hardness, weight, thickness, diameter, and width readings.

APPLICATIONS

Applications

Tablet hardness testers verify that compressed tablets survive coating, packaging, and shipping while still breaking down correctly once taken, so they sit at several checkpoints across pharmaceutical and nutraceutical production.

- **In-process quality control (IPQC):** operators sample tablets directly off the compression line to confirm hardness, thickness, and weight stay within tolerance during a production run.
- **Finished product release testing:** QC labs run a full 5-parameter check before a batch is released, generating the reports and audit trail required for cGMP documentation.
- **R&D and formulation development:** formulation teams use hardness and thickness data to fine-tune compression force and binder ratios while developing a new tablet.
- **Regulated and validated facilities:** sites operating under 21 CFR Part 11 rely on models with audit trails, e-signatures, or fingerprint authentication to keep testing records traceable to a specific operator.
- **Contract manufacturing organizations (CMOs):** CMOs testing tablets across multiple client formulations benefit from multi-level user management and template-based reporting to keep results organized by product.
- **Nutraceutical and supplement production:** vitamin and supplement tablets are tested the same way as pharmaceuticals to confirm they hold together through packaging and distribution.

FEATURES

Features & Advantages

ToronTAB™ 5

- Measures 5 parameters of the tablet: Weight, Thickness, Diameter / Length, Width, Hardness
- Intuitive touch-screen display (7" full color)
- Constant speed and constant force measuring principle
- Programmable calibration and verification modes
- Calibration and verification reminders
- Tilt-sensing device automatically adjusts display orientation when in verification and calibration mode
- Body made of stainless steel to comply with cGMP regulations or painted MS
- A perfect companion for IPQC
- Programmable tolerances with visual alerts of T1, T2 and plausibility limits: Normal, T1, T2, Plause
- Tablet manager tray for easy carrying of tablets from weighing scale
- Audio-visual alerts for instrument status: Run, Error, Communication
- 3-level user management security
- Multilingual: English, German, French, Spanish
- User-selectable templates for printing data and graph
- Jaw with dual groove (Big and Small)
- Indicator for calibration due date
- Auto / Manual mode with a programmable delay time
- Adjustable delay between the samples

EHT-5PR

- Equipped with a full-color intuitive touch screen display
- Utilizes a constant speed and constant force measuring principle
- Capable of handling up to 100 samples per test

- Features a jaw with multiple grooves
- Provides three levels of user management security
- Includes an indicator for calibration due date
- Equipped with light and audio alarm indicators for instrument status
- Offers programmable calibration and verification modes
- Operates in both auto and manual modes with a customizable delay time
- Allows for an adjustable delay between the samples
- Includes a tablet manager tray for easy carrying of tablets from the weighing scale
- Offers user-selectable templates for printing reports
- Includes a protective cover to shield the operator from inhaling tablet dust from tablets that may 'explode'
- Features an embedded printer for printing test results, validation, and calibration reports
- Complies with 21 CFR Part 11 requirements
- Offers storage capacity for up to 10,000 products
- Maintains an audit trail for enhanced traceability and compliance

EHT-5PR TURBO

- Equipped with a full-color intuitive touch screen display
- Utilizes a constant speed and constant force measuring principle
- Can handle up to 100 samples per test
- Features a jaw with multiple grooves
- Provides three levels of user management security
- Includes an indicator for calibration due date
- Equipped with light and audio alarm indicators for instrument status
- Offers programmable calibration and verification modes
- Operates in both auto and manual modes with a customizable delay time
- Allows for an adjustable delay between the samples
- Includes a tablet manager tray for easy carrying of tablets from the weighing scale
- Offers user-selectable templates for printing reports

- Includes a protective cover to shield the operator from inhaling tablet dust from tablets that may 'explode'
- Features an embedded printer for printing test results, validation, and calibration reports

SWFT-5

- Features a full-color intuitive touch screen display
- Utilizes a constant speed and constant force measuring principle
- Allows testing of up to 21 samples per test
- Offers multilevel user management security
- Includes an indicator for calibration due date
- Provides light and audio alarm indicators for instrument status
- Supports programmable calibration and verification modes
- Allows users to select templates for printing reports and graphs
- Offers connectivity to a weighing balance
- Features a fingerprint sensor for the weighing scale
- Maintains an audit trail for tracking actions and changes
- Includes a protective cover to shield the operator from inhaling tablet dust from tablets that may explode
- Supports electronic signatures (E-signature) for authentication and authorization purposes

TECHNICAL SPECIFICATIONS

Technical Specifications

ToronTAB™ 5

Parameters	Weight, Thickness, Diameter / Length, Width, Hardness
cGMP compliance	Body made of (SS) stainless steel to comply with cGMP regulations or painted MS

Touch screen display	7.0" full colour
Samples per test	Up to 1000
Adjustable delay between the samples	1 to 99 sec
Measuring principles	Constant speed or constant force selectable
Printing for data and graphs selectable	User-selected templates
Hardness Range	3-800 N
Thickness Range	0-40 mm
Thickness Resolution	0.01 mm
Accuracy	± 1 N
Jaw opening	40 mm (up to 65 mm optional)
Jaw	Dual (Big and Small groove)
Units for hardness	N, Kp, Sc, user-defined
Units for thickness/diameter	mm/inch
Constant speed setting	0.5 mm/sec to 3 mm/sec in step of 0.1 mm
Constant force setting	10 kg~100 kg /sec force in step of 1 kg/sec
Weight	External balance connectivity Sartorius/ Mettler/ Shimadzu/ Contech
Tilt sensing device	Yes
External thickness	Optional
Security	3 level user management (flexible role)
Hardness / Thickness calibration	2 point calibration, 3 point verification linearity
Report format	User-selectable tabular format

Interface	LAN, USB and serial
Printer connectivity	LAN and serial port
Power Supply	110V is also available. Please specify when ordering

Standard accessories included: brush, tablet manager tray, slide-in groove tongue.

Optional accessories: validation kit (11 lbs / 5 kg brass weight for hardness calibration and validation, 10 mm calibrated gauge block for thickness validation), 65 mm jaw, weighing scale.

IQ / OQ documents are available.

EHT-5PR

Parameters	Weight, Thickness, Diameter / Length, Width, Hardness
cGMP compliance	Body made of (SS) stainless steel to comply with cGMP regulations or painted MS
Touch screen display	7.0" touch screen display
Samples per test	Up to 1000
Adjustable delay between the samples	1 to 99 sec
Measuring principles	Constant speed or constant force selectable
Printing for data and graphs selectable	User-selected templates
Hardness Range	3-800 N
Thickness Range	0-40 mm
Thickness Resolution	0.01 mm
Accuracy	±1 N

Jaw opening	40 mm (up to 65 mm optional)
Jaw	Dual (Big and Small groove)
Units for hardness	N, Kp, Sc, user-defined
Units for thickness/diameter	mm/inch
Constant speed setting	0.5 mm/sec to 3 mm/sec in step of 0.1 mm
Constant force setting	10 kg~100 kg /sec force in step of 1 kg/sec
Weight	External balance connectivity Sartorius/ Mettler/ Shimadzu/ Contech
Tilt sensing device	Yes
External thickness	Optional
Security	3 level user management (flexible role)
Hardness / Thickness calibration	2 point calibration, 3 point verification linearity
Report format	User-selectable tabular format
Interface	LAN, USB and serial
Printer connectivity	LAN and serial port
Power Supply	110V is also available. Please specify when ordering

Standard accessories included: brush, tablet manager tray, slide-in groove tongue.

Optional accessories: validation kit (11 lbs / 5 kg brass weight for hardness calibration and validation, 10 mm calibrated gauge block for thickness validation), 65 mm jaw, weighing scale.

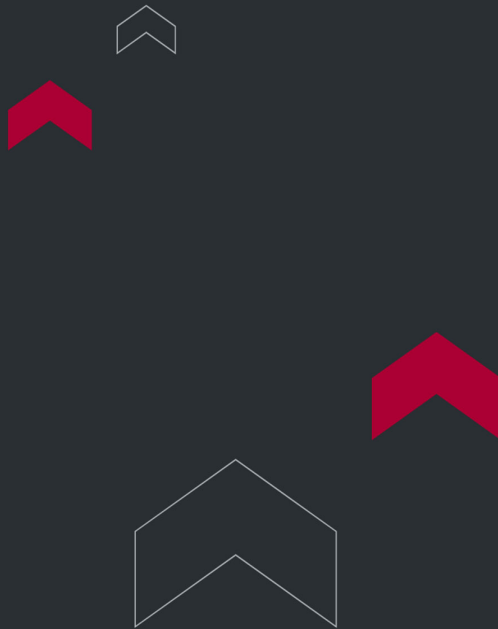
IQ / OQ documents are available.

Parameters	Weight, Internal Thickness/ External Thickness, Diameter/ Length, Width, Hardness
Compliance	Body can be stainless steel (S.S.) to comply with cGMP regulations or painted MS
Display	7.0" touch screen display
Samples per test	Up to 100
Adjustable delay between the samples	1 sec to 99 secs
Measuring principle	Constant speed
Printing of data and graphs	User defines templates
Hardness Range	3 N - 800 N
Accuracy	± 1 N
Jaw opening	40 mm (up to 65 mm optional)
Jaw	Dual (Big and Small groove)
Units for thickness/diameter	mm / inch
Constant speed setting	1 mm to 3 mm in step of 0.1 mm
Compatible weighing balances	Sartorius/ Mettler Toledo/ Shimadzu/ Contech/ Ohaus/ Radwag
Security	Multi level user management (flexible 10 role)
Hardness / thickness calibration	2 point calibration, 3 point verification linearity
Report format	User defined tabular format
Interface	LAN and serial
Embedded Printer	Yes
Power Supply	110V is also available. Please specify when ordering

SWFT-5

Parameters available	Weight, Thickness, Diameter, Width/Length and Hardness
Hardness working principle	Constant Speed
Constant speed range	1 mm/sec to 3 mm/sec
Hardness measurement range	Up to 800 N
Hardness accuracy	±1 N
Units for hardness	N, Sc, Kp, programmable user-defined factor (based on N)
Diameter/length measurement range	2 - 26 mm
Diameter/length accuracy	±0.05 mm
Thickness measurement range	Up to 15 mm
Thickness accuracy	±0.05 mm
Width measurement range	2 - 26 mm
Width accuracy	±0.05 mm
Units for diameter/length/thickness/width	mm or inch
Weighing	External balance interface
Compatible weighing balances	Mettler Toledo, Sartorius, Shimadzu, Contech, Ohaus
Units for weight	g or mg
Size (W x D x H)	400 x 476 x 281 mm (with hood)
21 CFR Part 11 Compliance	Yes, with integrOS Pro
Electrical power	230 VAC, 50/60 Hz, 100 W/Amp; or 110 VAC, 50/60 Hz, 100 W/Amp

Display	7" touch screen display
Weight	26 kg
Power Supply	110V is also available. Please specify when ordering



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

