

Manual Tablet Hardness Tester, 0-20 kg

Instructions for Use

Pharmaceutical Testing Equipment

Intended use

Manual instrument for measuring the breaking (crushing) strength of tablets for pharmaceutical and nutraceutical quality control, batch testing and formulation work.

Intended users

Trained quality control and laboratory staff.

Read this manual completely before first use and keep it with the product. This document provides general operating, care and safety guidance. Where the product is supplied with manufacturer labeling or instructions, those take precedence. For questions, a replacement copy, or a digital copy of this manual, email sales@scimedstore.com.

1. Safety

Safety warnings and cautions

- Wear eye protection; tablets can break suddenly and fragments may fly.
- Wear gloves when handling active pharmaceutical tablets, as required by your laboratory.
- Keep fingers clear of the jaws while applying pressure.
- Apply pressure steadily; do not strike or force the mechanism.
- Do not exceed the 20 kg scale range.
- Clean up tablet fragments and powder after each test according to your laboratory procedures.

2. Specifications

Scale range	0 to 20 kg
Smallest division	1 kg
Construction	Brass turned parts, chrome plated
Zero adjustment	Adjustable for different tablet sizes
Operation	Manual hand pressure
Type	Varies by variant: Pfizer type or Monsanto type

3. Unpacking and setup

- 1 Place the tester on a clean, stable bench.
- 2 Check that the scale and moving parts are clean and move freely.
- 3 Place a tablet between the jaws and adjust until it is held lightly without load.
- 4 Set the scale indicator to zero.

4. Operation

Measuring tablet hardness

- 1 Place the tablet between the jaws in the orientation required by your test method.
- 2 Adjust the zero setting so the tablet is just held.
- 3 Apply steady hand pressure until the tablet breaks.
- 4 Read the value on the scale at the moment of breaking, to the nearest division.
- 5 Record the result.
- 6 Release pressure, remove fragments and reset to zero.
- 7 Repeat for the number of tablets required by your test method.

5. Cleaning and disinfection

- Brush tablet powder and fragments from the jaws after each test.

- Wipe the instrument with a dry or slightly damp cloth; dry it fully.
- Do not use abrasive cleaners on the chrome-plated surfaces.
- Do not immerse the instrument in water.

6. Maintenance and storage

- Store clean and dry in a dust-free place.
- Check zero setting and smooth movement before each session.
- Verify readings periodically against your laboratory's reference method.
- Do not lubricate unless your maintenance procedures specify it.

7. Troubleshooting

Problem	Likely cause	What to do
Scale does not return to zero	Powder in the mechanism or zero not set	Clean the jaws and mechanism, then reset zero
Readings vary widely	Uneven pressure or inconsistent tablet orientation	Apply steady pressure and keep tablet orientation consistent
Tablet slips out	Jaws not adjusted to tablet size	Readjust the zero setting so the tablet is held lightly
Mechanism stiff	Residue or damage	Clean thoroughly; arrange service if stiffness continues

8. Disposal

- Dispose of tested tablets and powder according to your laboratory's pharmaceutical waste procedures.
- Dispose of the instrument as metal waste according to local regulations.

9. Warranty and support

Products are covered by SciMed's standard warranty (12 months from purchase unless a different period is stated on your invoice). Warranty terms: scimedstore.com/pages/warranty.

Support, spare parts and additional copies of this manual: sales@scimedstore.com. Please include your order number and a photo of the product or issue.

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