

Measurement Instrument for Tension and Compressive Strength

Model No. DITG-**PJ

Dial Tension Gauge

Thank you for your purchasing our “Dial Tension Gauge”.

This product measures tension and compressive strength, e.g. the pressing force of a button or tension of a spring.

- To ensure optimum and safe use of this product, please read this manual carefully before use. Keep this manual in a safe place for handy reference.
- Always include this manual if you transfer or lend this product to any third party.
- Contact your sales store or our company for any questions about this product.

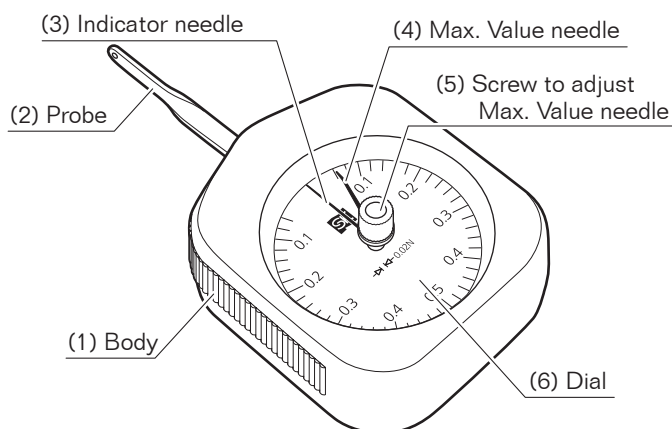
SAFETY NOTICE

In this manual, the following symbols indicate:

- ⚠ Any action that can cause damage.
- ⊘ Any prohibited action.
- ⊙ Any compulsory instructions.

Part Names and Functions

* The model is DITG-50PJ.



- (1) Body Hold here when measuring.
- (2) Probe Touch the point of the probe on the point you want to measure.
Tension can be measured by hooking an object in the hole at the point.
- (3) Indicator needle Indicates the measured value.
- (4) Max. Value needle Can be used to indicate the maximum value in any set of measurements. The Max. Value needle stops at the maximum attained value when the Indicator needle returns to the zero position, enabling you to read the maximum value easily.
- (5) Screw to adjust Max. Value needle To return the Max. Value needle to its initial position.
- (6) Dial Indicates the measurement value.

Safety Precautions

please observe

This section explains the procedures you must follow in order to avoid any damage to the user, other persons or property.



Caution

Any misuse may cause injury or damage to property.



Read and follow all the instructions in this manual.

- Any use exceeding the scope described in this manual may cause an accident.



Use this product only for taking measurements.

- Any use other than for the specified purpose may cause damage or wear of this product, or an accident.



Use this product in the following environment:

- Dry conditions. No rain, water or oil
- Not in direct sunlight
- Keep away from children or any other person.
- Only the user should be near the product.
- Any use in any place that does not meet the above conditions may result in inaccurate measurement, damage to this product, accident or injury.



Handle this product with care

- Avoid any physical shock or dropping the product. Do not place weight on this product. These may result in inaccurate measurement or damage.



Use within the range of measurement.

- Do not apply any force in excess of the measurement range given in the specifications, this may result in inaccurate measurement or damage to this product.



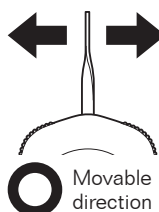
Do not disassemble or convert this product.

- This may cause inaccurate measurement or damage to this product. Contact the sales store or the seller for repair.

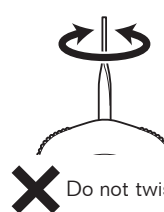


Avoid applying any force to the probe in any other direction than the movable directions.

- Any twisting or pushing of the probe in any unmovable direction may cause inaccurate measurement or damage to this product.



Movable direction



Do not twist

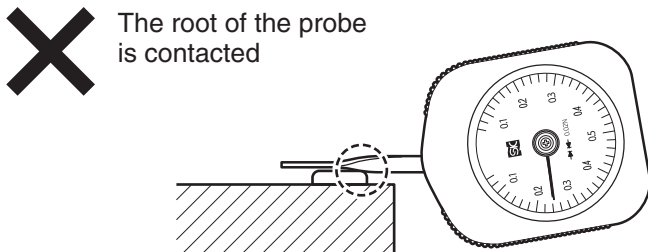
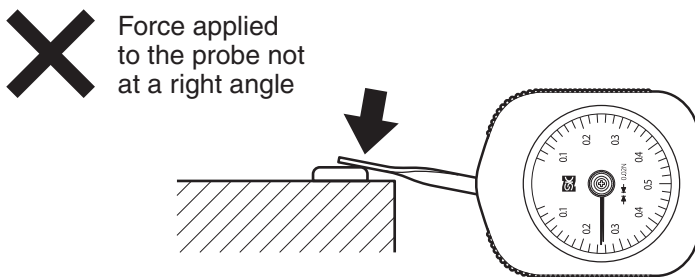
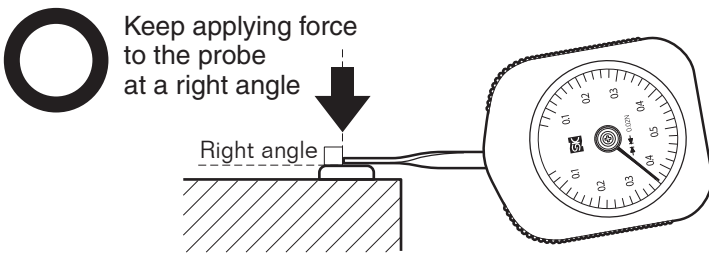
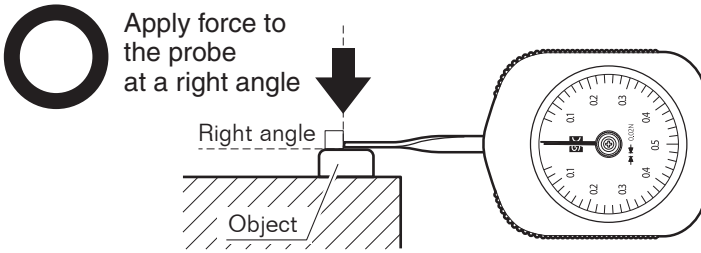


Do not apply strength in any other direction than the movable directions

Proper Contact

In order to obtain accurate values, ensure the probe instructions are followed.

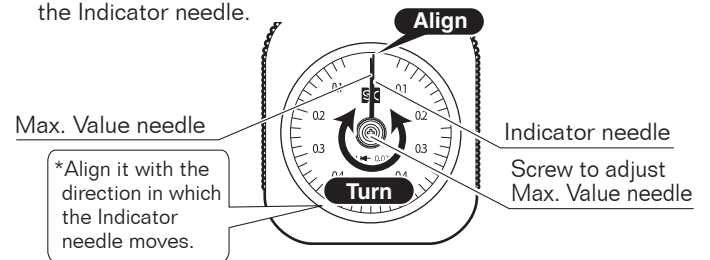
- Ensure the probe contact is at right angles to the object
- Contact the point of the probe



How to Use

(1) Place the Max. Value needle to the initial position

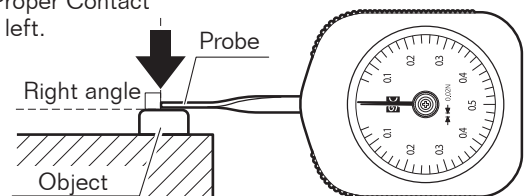
Turn the screw to adjust Max. Value needle to align with the Indicator needle.



(2) Contact the probe with the object

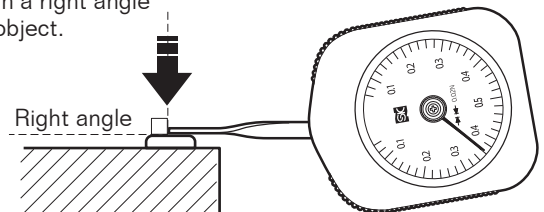
Contact the probe with the object so as to apply force at a right angle to the object.

* See "Proper Contact" on the left.



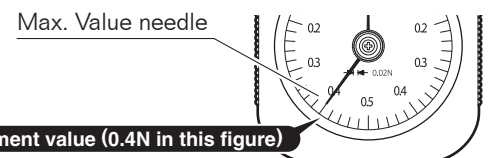
(3) Apply force while the angle of the probe remains at a right angle

When applying force to the probe, always maintain a right angle to the object.



(4) Release the probe from the object and read the Max. Value needle

As the force reaches the maximum, release the probe from the object and read the value indicated by the Max. Value needle.



* When measuring tension, make sure to apply force to the probe at a right angle.

Product Specification

● Materials: Body...ABS Probe...Steel ● Weight: 55g

Model No.	DITG-30PJ	DITG-50PJ	DITG-100PJ	DITG-150PJ	DITG-300PJ	DITG-500PJ
Measurement Range	30~300mN	0.06~0.5N	0.1~1N	0.15~1.5N	0.3~3N	0.6~5N
Resolution	10mN	0.02N	0.05N	0.05N	0.1N	0.2N
Accuracy	±0.5 units of scale					

Maintenance and Storage

Wipe away any dust or marks with a dry cloth. Any foreign particles between the body and the probe may obstruct the smooth movement of the units.

Keep this product in the attached case and store in a dry, cool and dark place. Avoid direct sunlight and moisture. Keep in a safe place away from unauthorized users.

Niigata seiki Co., Ltd.

6-15-22, Tsukanome, Sanjo, Niigata, Japan, 955-0055
Tel.: +81-256-31-5670 Fax.: +81-256-39-7730
MAIL: intl.sales@niigataseiki.co.jp