

## Strength Test in FUTA-Q

### 1. Strength test in FUTA-Q

FUTA-Q, working for medical and analysis products, can confirm the strength of a product or a jointed area of a part using a strength tester to ensure them to be safely used. Using not only a universal testing machine for general use but our own tester developed in-house, we will keep providing high reliable products.

### 2. AUTOGRAPH AG-20kN, universal tester

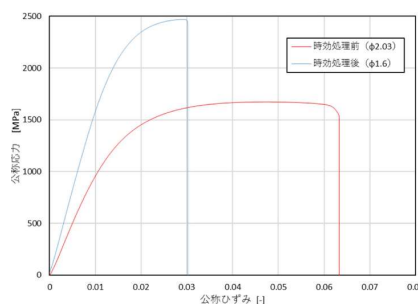
This is used for measuring the mechanical characteristics of FUTA-Q's pipes and bending strength of our products. Having a chuck for holding a thin wire, this can measure the strength characteristics of products with a wide range of materials and

Measuring examples:

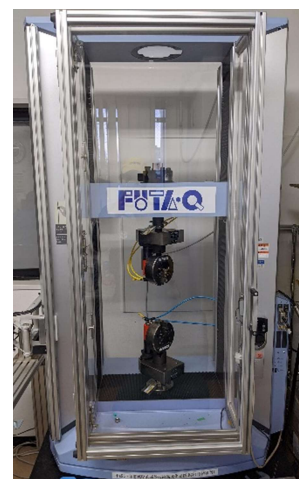
Tensile strength of a pipe, a thin wire, and a thin sheet material

Specification

- Measuring range: 20 kN (2 tonf)
- Tester size: 1170 W, 750 D, and 2162 mm H



Stress-strain diagram in tensile testing



Overview of the tester

### 3. Small type universal tester (developed in-house)

A normal universal tester has sometimes difficulty in measuring a welded area or hybrid jointing area of a small component.

This tester is designed for easy setting of a small component and the high measuring accuracy in a relatively low range of testing strength. Although being a simple tester, this can print out and store the testing result.

Measuring examples

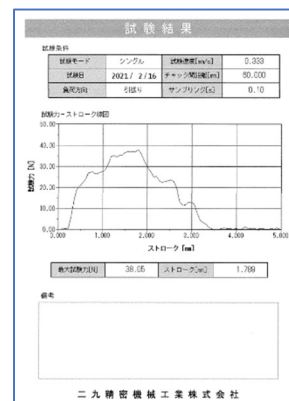
- Jointing strength of welded small parts and jointed area of dissimilar materials
- The puncture resistance of needle products (as a future plan)

Specification

- Measuring range: 1 kN (100 kgf)
- Tester size: 400 W, 600 D, 1380 mm



Universal tester



Testing result

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