

Medical devices and pharmaceutical products must conform to numerous industry and internally developed standards to ensure proper functioning and patient safety. To assess their performance and quality, Mark-10 force and torque measurement products are used in production and laboratory environments. From measuring syringe activation force to pill crush force to suture strength, Mark-10 products are trusted by medical device and pharmaceutical manufacturers every day. Mark-10 has over 40 years of experience in force and torque measurement and provides a 3-year warranty on all products.



Glove Strength Test

Medical professionals put on and take off gloves many times daily. Gloves must be flexible enough to put on easily but strong enough not to tear at the cuff or fingers.



Film Puncture Test

Plastic films are used in a variety of packaging for medical and consumer products. This unique fixture punctures the material, thereby determining its strength.



Mask Elastic Band Test

Face masks are worn by medical professionals, construction personnel, and by much of the world in the Covid-19 era. The elastic band attachments must be strong enough to stretch and pull over a person's head or around their ears.



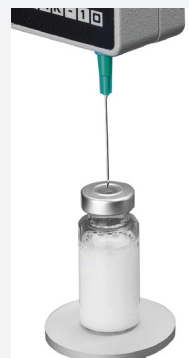
Syringe Activation Force Test

Determines the amount of force a medical professional must exert to push the plunger through the barrel of a syringe. Syringes may be empty or pre-filled.



Disinfecting Wipes Strength Test

The ubiquitous disinfecting wipe is an invaluable and inexpensive way to sanitize surfaces, from private homes to hospitals and public businesses. Strength testing ensures that the wipe will remain intact during use.



Needle Sharpness Test

Hypodermic needles must be sharp enough to penetrate a bottle seal or a patient's body tissues. Sharpness testing ensures effective drug delivery or a clean puncture through a bottle seal.



Medical Device & Pharmaceutical

- Needle penetration force
- Tablet crush force
- Suture strength
- Packaging peel force
- Syringe plunger force
- Tubing connector pull-off force
- Dental and bone screw torque
- Tensile strength of orthodontic wire
- Stopcock torque
- Catheter torque
- Luer lock torque
- Adhesive strength of bandages
- Latex glove strength
- Mask elastic band strength
- Disinfecting wipes strength



Automotive

- Switch activation force
- Ergonomics / job task analysis
- Rotary dial torque
- Torque tool calibration
- Seat belt retraction force
- Job task analysis
- Fastener torque testing
- Ignition switch torque measurement
- Turn signal stalk activation testing
- Wire terminal crimp pull testing
- Spring testing
- Bearing torque testing
- Coefficient of friction testing
- Windshield wiper arm force



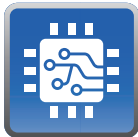
Springs

- Extension spring testing
- Compression spring testing
- Torsion spring testing



Aerospace

- Spring testing
- Wire terminal crimp pull testing
- Force and torque testing of dials and switches
- Passenger control button activation force
- Bearing torque testing
- Cable tension testing
- Tensile strength of materials



Electronics

- Switch force activation
- PCB bend testing
- Wire crimp pull testing
- Component pull-off testing
- Component shear testing
- Peel strength
- Keypad testing
- Connector insertion/withdrawal force



Packaging

- 90° peel testing of adhesive tapes
- T-peel tests of flexible packaging materials
- 180° peel testing
- Opening force testing
- Score bend testing
- Bottle cap torque testing
- Coefficient of friction testing
- Top-load testing of bottles and cartons
- Foil seal pull-off testing
- Sterilized packaging testing



Ergonomics & Job Task Analysis

- Pushing a wheelchair or cart
- Loading and unloading boxes
- Luggage / cargo handling
- Operating heavy machinery
- Muscle strength testing
- Fitness assessment
- Lifting boxes
- Pulling items from racks



Food and Beverage

- Bottle cap torque testing
- Bottle cap pull-off force testing
- Food texture analysis
- Top load testing
- Burst testing
- Crush testing