



# PHARMA CHECK - DRIVE

**AUTOMATIC CAPSULE HARDNESS TESTER**



Software-controlled automatic instrument for measuring the hardness and compressive strength of capsules, gelatin substrates, and soft or elastic materials.

This instrument allows a compressive force to be automatically applied to the product, following a programmable cycle to evaluate the deformation resistance and check compliance with quality control requirements in the pharmaceutical, cosmetic and food industries.

### Main Features

- Motorised probe displacement with 0.0001 mm

resolution

- Load cell for measuring applied force with full scale 60 N and resolution 0.001 N

- Automatic rotation of probe plate for automatic testing of multiple capsules

- Digital display for instrument handling and direct reading of force and displacement.

### Software

- The software allows predefined test cycles and the preparation of customised cycles.

- Graphically represent force application curves

- Identify products by barcode and check tolerance

limits of results

- Store results and curves in SQL database.

### Accessories

The instrument can be equipped with interchangeable Capsule Plates that can be attached above the instrument's rotating plate to **automatically test all capsules that have been inserted into the compartments.**

Plates are available for Oval, Spherical and Oblong capsules or with dimensions on request.

**Test Cycle:** Customer-defined test cycle with adjustable force-time application

**Load Cell:** Max load: 60 N, Resolution: 0.001 N

**Displacement of the measuring Unit:** Motor controlled screw with ball-screw system. Max speed: 85 mm/min. Stroke: 50 mm. Resolution: 0.0001 mm

**Rotation of the Specimen Holder Plate:** Motorised rotation with angle control for automatic execution of multiple tests

**Interchangeable Capsule Holder Plates:** Plates for Oval, Spherical and Oblong Capsules are available in standard or custom sizes.

**Software:** Software for complete instrument control compatible with Windows 11 and saving of results in SQL database

**Test results calculated for each test:** Force at Set Displacement, Maximum Force, Displacement at Set Force

**Graphs:** The Force-Displacement Curves of the tests performed are displayed in different colours.

**Personal Computer (optional):** Minimum Setup: Windows 11, Intel Core i7, 8GB RAM

