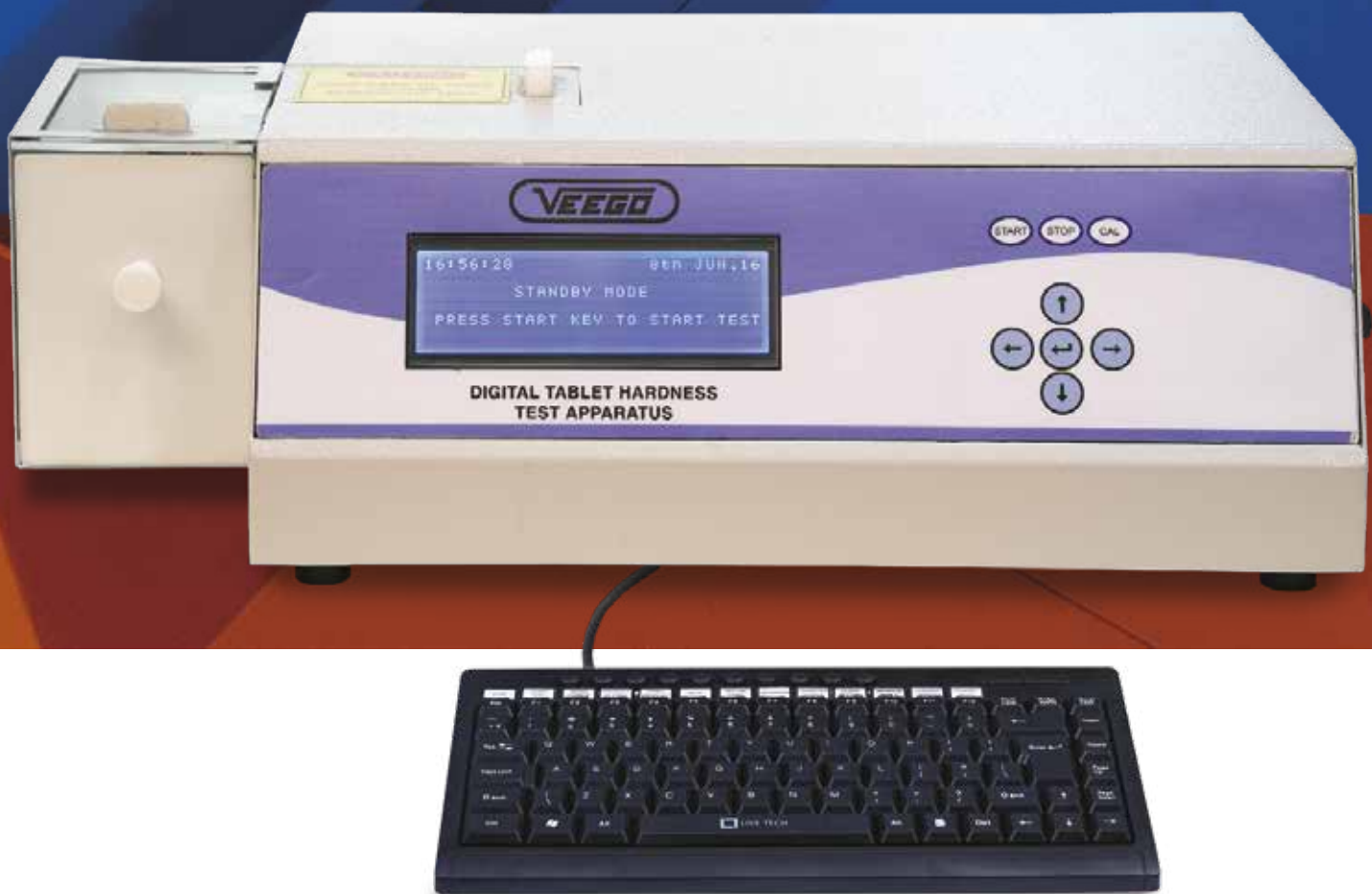# TABLET HARDNESS TESTER

MODEL: **VDIGITAB -1**

Hardness tester is a horizontal loading mechanical strength testing machine.

The Instrument is equipped with Microcontroller based circuitry, and designed to be compliant with USP/IP/BP pharmacopoeia specifications and specializes for accurate estimation of Diameter, Width, Length. Thickness and Hardness depending upon the shape of the tablet.

The unit can be interfaced to an external Electronic Balance through the RS232 interface to record the weight of the tablet under test. Test Results and statistical data can be printed on an externally connected 80 column dot matrix printer.

TABLET
HARDNESS TESTER
MODEL : **VDIGITAB -1**

PRINCIPLE OF OPERATION:

The tablet which is to be tested is placed in the area between two jaws. The left side jaw is fixed. Right side jaw is a motorized plunger and attached to load cell which crushes the Tablet between the two jaws.

The Tablet gets fractured and fracture load (hardness) is displayed. Then plunger returns to the priest position and waits for the next test tablet. The broken pieces of tablets are collected in a tray situated beneath the unit. After testing of batch, the results of individual tablet and statistical analysis can be seen on the display and printouts can be obtained by pressing print key.

SPECIFICATION:

• Main Unit VDIGITAB-1 with serial port Interface for Printer and Balanc Connectivity.

• Digital display: Graphic LCD Display : 240 X 64.

• Keyboard: Qwerty Usb Keyboard.

• Setting the current date & time is password protected.

• MEASURING HARDNESS TESTER: Load Cell.

• Jaw Opening: Up-to 40 mm.

• Hardness Measuring Range : Up-to 400 Newton OR 40 Kg.

• Hardness Accuracy:Better than 100gm.

• Diameter Measuring Range : 3.00mm - 40.0mm.

• Dimensions Accuracy: Better than 0.07mm

• Thickness and Diameter measuring unit : Mm or inch.

• HardnessMeasuring Unit: Kilogram (Kg), Newton(N).

• Print Results: Printout on Dot Matrix Printer.

• Number of Test for statistics : 25 Tests.

• Diameter Calibration : 25mm ref, Gauge.

• Weight Calibration (used for in house calibration) : 5 Kg certified weight.

• 8 operator name bank can be prepared.

• product library for 95 products.

• Memory to store test reports.

• Select Balance Mode or Manual for weight entry.

• DIMENSIONS: L x W x H 330 mm x 300 mm x 255mm (approx)

• WEIGHT: 25 kg (approx)

• POWER SUPPLY: AC Mains, 230 volts, 500 watt.

Also Available for Measuring only Hardness. Model : **VDIGITAB-SPV**