**Tablet Dissolution Testing**

This is the area for Tablet Dissolution Testing Instruments. Basically you can select from 3 versions while all of them are ready to be upgraded to a semi or fully automated system, they are in full compliance to the valid USP<711/724>, EP<2.9.3/4> and many International Pharmacopoeias.

**Manual Disintegration Testing**

Our range of tablet and capsule disintegration testers meet in detail the current specifications of the most recent USP <701/2040> and EP <2.9.1/2.9.1.2> monograph. As with all of our products all instruments are manufactured with a stainless steel housing which is designed to be more GMP compliant than painted housing designs. A lot of these instruments find their place in QC and IPC laboratories and as most of the other equipment in these areas is finished in stainless, the Pharma Test equipment certainly does not look out of place.

**Suppository Testing**

The range of instruments to test the quality of Suppositories, Pessaries, Creames etc. includes Disintegration, Penetration, and Dissolution Instruments and Apparatus.

- **PTS3E** instrument is designed for the manual control of suppository disintegration time. It conforms to the current requirements as laid down in the German DAB and European EP <2.9.2> Pharmacopoeia.
- **SPT6** Suppository Softening Time (Penetration) Test Apparatus can be used in any Pharma Test Tablet Disintegration Test Instrument. The instrument meets in all details the monograph of the EP <2.9.22> Apparatus A.
- **PTSW0** Suppository Dialysis Cell is used inside a Dissolution Vessel of a Dissolution Test Instrument. It is suitable to test the concentration of active of a suppository or other lyophilic carriers.

**Tablet and Ampoule Hardness Testing**

All PHARMA TEST Hardness Testing Instruments meet the latest requirements of the USP monograph <1217> and EP <2.9.8>

- **PTB111E** is a standard Hardness Test Instrument to be used in Tabletting Departments and everywhere else when Hardness Test Data only are required. The PTB111E is equipped with a Printer and Communication Port.
- **PTB311E** “3-in-1” is doubtless one of our most popular instruments for measuring Thickness, Diameter and Hardness. A variety of tablet Thickness Jaws are available for tablet different diameters or shapes.
- **PTB302** is the latest version of the very first electronical Tablet Hardness Tester world-wide. Its main features are: Built-in Printer, RS-232 interface, operation mode for linear force increase, simple to operate, no change of jaws required.
- **PTBA211E** is worldwide used to test the Breakpoint of Glass Ampoules. Full calibration and validation programs built.
Multi-Station Automated Testing Systems
The Fully Automated WHT3ME Instruments are designed to automatically measure 4 parameters for either round or odd shaped tablet forms. These parameters are: Weight, Height, Diameter (or Length) and Hardness. The WHT3ME has a special system in the length / hardness section (sample orientation flaps) which can move an oblong tablet (for example) into the correct orientation for length and then hardness testing regardless of the angle at which it arrives at the measuring point. Using the WHTSM or WHTSM1 multiple batches of tablets can be tested fully automatically.

Friability Testing
PTFE and PTFER, single or double drum Tablet Friability Test instruments. Both are available as fixed or variable speed instruments and are manufactured in compliance to the monographs of the USP <1216>, European EP <2.9.7> and other Pharmacopoeias. The PTFE Instruments are manufactured with either one or two drums, both Friability (“Roche”) and (optionally) Abrasion drums are available. AS a Friability Tester is often used in production its stainless steel housing fits ideally.

Tapping Density
The PT-TD200 is a single station Tapping Density Tester, it allows to test in compliance with the monographs of the USP <616, Method 1-3) and the EP <2.9.34-3 Method 1-3> and DIN 53194. The PT-TD200 automatically detects in which position the cylinder dish is placed and adjusts automatically speed and tapping height. It also includes a RS232 Printer Port and a filing system to enter test and product information. User access control can be activated any time

Automated Powder Testing
The PTGS3 Powder Testing System is used to measure the flow behaviour of Granules and Powders in compliance with the EP <2.9.17/36> and USP <1174> pharmacopoeia and the international ISO 4324 standard. This instrument is suitable for testing powder Flow Time, the measurement of the Cone Angle (angle of repose) of the collected powder mound, measuring the Weight, calculating the Density and the Volume of the powder cone as well as the EP/USP "Flowability" results which is to measure the flow time of 100 g of sample through a specified pouring nozzle.