

## Semi Automated Four Basket Tablet Disintegration Testing - Type PTZ AUTO 4



### Semi Automated 4-Station Tablet Disintegration Test Apparatus, PTZ AUTO 4

The PTZ AUTO Disintegration Test Instruments are available as single, double, triple and four station system which are equipped in full compliance with the USP <701/2040> and EP <2.9.1/2.9.2.1> pharmacopoeia requirements. A large 320x240 Pixel LCD screen and an alpha-numerical keyboard is used to edit product and test information, such as the disintegration time for each station, bath and media temperature. The total testing time for the station is displayed at the end of a run. Operator intervention to stop a run is also displayed. Print the individual disintegration time of each sample when you did visually detect the disintegration of the tested sample by simply pushing the relevant character key (1-6). All this information can be printed as a test report when a PCL printer is attached to the instruments parallel printer port.

The built-in heating system uses a silent circulation pump and a heater to pre-heat the outer water bath over the range of 25-45°C; the actual bath temperature is always displayed and measured by an external manual temperature probe. The overheating protection secures automatic shut down of the pump and heater in the event that no water flow is detected. A built-in safety system including an overheating detection sensor, a thermo switch and a thermo fuse closes down the heating when temperature exceeds +60°C or max. 95°C at the heater.

For easy cleaning and maintenance, the Plexiglas water bath can be easily removed. Fast Tube Couplings connect the tubing to the heating system. The digital controlled stroke

PHARMA TEST AG  
Siemensstrasse 5  
D-63512 Hainburg (GER)



+49 6182 9532-600  
+49 6182 9532-650  
email@pharma-test.de  
www.pharma-test.com



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mechanism is automatically adjusted to provide the USP / EP specified 30 strokes a minute to each station. At the end of a test run, each basket is completely removed from the test media. This feature is particularly useful if sustained released products are tested, which may require a medium change during the run.

### Upgrading

The PTZ AUTO 4 Disintegration Test Apparatus is able to be upgraded at any time to a fully automated disintegration time detection system, giving automatically independent disintegration data for each test sample using the PT-MKT auto disintegration baskets. At the end of a test run, a test report can then be printed showing the minimum and maximum disintegration time, statistics as well as bath and media temperature, stroke frequency, and product data for each sample tube and each testing station.

### Featuring

- Alpha-numerical keyboard
- 320x240 pixel large LC Display
- OQ/PQ Monitoring
- Test and Sample Information Filing for up to 16 Methods
- Print out of Test Report at the end of a test run
- ABS - Auto-Basket-Stop of Disintegration Times, press relevant key only
- TSC - Thermostat Safety Control (includes thermo switch, thermo fuse, pressure switch, digital safety sensor)
- RS-232 and parallel Printer interface to use PCL or Matrix Printers
- Built-in Basket Lift
- Easy upgrading to fully automated PTZ AUTO 4EZ

### Technical Data

Display:	LCD Display 320x240 Pixel
Keyboard:	alpha-numerical keys and function keys
OQ information:	programmable time sequence information to perform OQ test
Security:	password protected instrument calibration and validation procedures
Testing time:	programmable testing time from 1 second up to 59h, 59m, 59s
Test Stations:	PTZ AUTO 4 = 4 baskets, independently operateable
Thermostat:	water bath temperature programmable from 25.0° - 45.0° C, overheating protection
Accuracy:	± 0.3°C
Safety System:	pressure switch to protect the heater from overheating (no liquid flow - no heating - no pumping) Thermo switch and thermo fuse to protect the heating system in case of an electrical fault
Stroke Frequency:	30 per minute
Accuracy:	± 1 stroke
Stroke Height:	55 mm
Accuracy:	± 1 mm
Interface:	1 RS-232 serial interface for external control of the instrument and data transfer

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Auto Basket Lift:

1 parallel printer port to connect a PCL LaserJet Printer equipped with auto electric basket lift in order to raise the sample tubes out of the media at the end of a test

Upgrading:

equipped to be upgraded to a fully automated disintegration time detection system (PTZ AUTO EZ)

### Weights and Dimensions

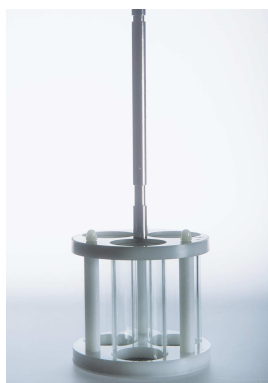
PTZ AUTO 4

Net weight: approx. 24kg

Gross weight: approx. 37kg

Packaging: approx. 100 x 60 x 50 cm

### Optional Equipment



“B” Basket, (Test “B” EP <2.9.1.2> and USP <2040>) 33 mm diam., used to test bigger samples  
order no. 101-2014 incl. glass tubes and disks

### Example of a typical Report Print-out, can be printed for each station

```
-----  
***** TESTLOG *****  
-----  
PTZ AUTO 2 A S/N 010553                TIME 8:48:16 DATE 18.04.02  
-----  
USER: ORT                               PRODUCT: PLACEBO  
                                         BATCH NUMBER: 1234  
                                         MEDIUM: WASSER  
TARG. TEMP.: 37.0°C                    BATH TEMPERATURE: 37.0°C  
-----  
BASKET 1 S/N 010309, BASKET TEMP.: 36.9°C, (OPERATES SINCE 0:00:00)  
-----
```

```
-----  
***** TEST REPORT *****  
-----  
PTZ AUTO 2 A S/N 010553                TIME 8:48:29 DATE 18.04.02  
-----  
USER: ORT                               PRODUCT: PLACEBO  
                                         BATCH NUMBER: 1234  
                                         MEDIUM: WASSER  
TARG. TEMP.: 37.0°C                    BATH TEMPERATURE: 37.0°C  
-----  
BASKET 1 S/N 010309, BASKET TEMP.: 36.8°C  
-----  
SAMPLE 1: DISINT. SINCE 0:00:08 M (MINIMUM)  
SAMPLE 2: DISINT. SINCE 0:00:09 M  
SAMPLE 3: DISINT. SINCE 0:00:10 M  
SAMPLE 4: DISINT. SINCE 0:00:11 M  
SAMPLE 5: DISINT. SINCE 0:00:12 M  
SAMPLE 6: DISINT. SINCE 0:00:13 M (MAXIMUM)  
-----  
MEAN VAL. DISINT. TIME: 0:00:10  
ABS. STANDARD DEVIATION: 0:00:01  
REL: STANDARD DEVIATION: 19.5%  
-----  
Signature  
TIME 8:48:29 DATE 18.04.02  
-----
```

We reserve the right to make technical changes without any prior notice

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