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**PRODUCTS FOR QUALITY AND IN-PROCESS CONTROL IN THE PHARMACEUTICAL INDUSTRY**



The universal, fully automatic Tablet Testing System **UTS4.1** was developed on the basis of the already long proven and perfected test systems for tablets in close cooperation with the pharmaceutical industry.

The tablet samples are measured and tested precisely for Weight, Thickness, Diameter and Hardness (Break force).

Round, oval, square and rectangular shapes can be tested without problem. For difficult oval shaped tablets the proven OZB Oblong Centering System can be adapted, this option is also retrofittable.

The simple and direct feed by means of the patented Kraemer Elektronik Feeder chute improves the measuring accuracy and reliability.

Unnecessary abrasion and contamination of the test stations is avoided through specially developed cleaning and de-dusting devices.

The test stations are automatically cleaned fully and efficiently after each tablet test.

The modular and flexible concept of the tester allows perfect applications in the laboratory and in production:

- Laboratory tester system with PC-Software PH21, fully 21 CFR Part 11 compliant.
- Online-Production Survey system in connection with tablet presses. Tablet sampling may be controlled by the tablet press or by the PH21 PC-Software.

Tablets may be fed to the tester by:

- Direct feeding by gravity
- 12-Station Feeder
- Single Air Transport System, for connection to single-sided tablet presses
- Double Air Transport System, for connection to double-sided tablet presses

For test sample collection and storage the following options are available:

- Reject bin for all tablets
- 3-way diverter for sorting tablets by quality
- 12-station collector unit for the storage of representative sample throughout the batch



OBLONG CENTERING DEVICE OZB



ONLINE-TESTER UTS4.1-ATS1



ONLINE-TESTER UTS4.1-ATS2

**Functions:**

- For use as standalone or online application
- Operation in lab or production with full automatic process monitoring
- Display for all 4 measurement values with Online display
- Adjustment and calibration functions
- Configuration program for customer specific applications
- RS232 / RS485 computer interface
- 24V switched outputs for sample pull, air transport and alarms
- In and outputs for control and integration of external equipment

**Technical data UTS4.1**

**Scale:** Precision weighing cell Sartorius WZ64S  
**Weight unit:** 1mg / 0,5 mg / 0,1 mg (adjustable)  
**Weighing range:** 10 mg to 50 g  
**Weighing accuracy:** ± 1 mg in stable environment  
 ± 2 mg in unstable environment

**Thickness tester:**

**Drive:** Stepper motor  
**Measurement principal:** Linear potentiometer  
**Measuring unit:** mm or inch  
**Measuring range:** 1-17 mm  
**Measuring accuracy:** ± 0,05 mm

**Hardness tester:**

**Drive:** Stepper motor  
**Force measurement:** Load Measurement Cell (LMZ)  
**Measurement principal:** Pressure Load Cell (DMS)  
**Force unit:** N, Kp or Sc  
**Measuring range:** 4-400 N (800 N or 50 N Optional)

**Measuring accuracy DMS:**

±1N (by 800 N ±2 N; 50 N ± 0,1N)

**Measuring accuracy Electronics/Mechanics:**

±1N (by 800 N ±2 N; 50 N ± 0,1N)

**Measuring accuracy total:**

±2N (by 800 N ±4 N; 50 N ± 0,2N)

**Force increase DMS:** 250 N/sec.

**Work cycle Pressure jaw:** 0,35 mm/sec.

**Fast forward travel:** 8,5-17 mm/sec.selectable

**Backward travel:** 8,5-17 mm/sec.selectable

**Diameter tester:**

**Drive:** Stepper motor  
**Measurement principal:** Stepper motor  
**Measuring unit:** mm or inch  
**Measuring range:** 3-18 mm (3-30 mm manual)  
**Measuring accuracy:** ± 0,1 mm

**Measurements:** 59 x 40 x 53 (W x D x H cm)

**Weight:** 40 kg (without Magazine feeder or Collector)

**Power requirements:** 100-240 V, 50 Hz/60 Hz

These versions conform to the current recognized machine safety standards. All rights reserved for technical changes.