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



The Kraemer UTS-IP65i is a new further development of our high quality range of automatic tablet testing systems and provides a professional solution for the production of medium and high potent drugs.

In addition to our existing dust-tight (UTS4.1-S10) and easy to clean (UTS-IP-LR) systems, the **UTS-IP65i** represents the first fully washable, universal and automatic Tablet Testing System in the world.

The system may be used in the following applications:

- in conjunction with a tablet press
- stand-alone with PC-software
- online with PC-software

Features

Washable tablet testing system for measuring weight, thickness, diameter, hardness.

Protection: IP67-68 in working area, main housing area IP63.
Pressure decay test: > 3 min. (typical results around 20-30 minutes)

Including patented KRAEMER separating feeder.
Standard measuring range for weight 10mg-50g, thickness 1-17 mm, diameter 3-30mm, hardness 4-350N.
Integrated precision scale Sartorius WZ64S.
Operating and display panel for all four parameters, including calibration and validation features.

Integrated spray nozzles:

- 3x Rotating spray nozzle on base plate.
- 1x Rotating spray nozzle on top cover center section.
- 1x Spray nozzle in tablet inlet feeder chute

Cleaning media connection:

- Tri-Clamp DIN DN50 water outlet.
- Tri-Clamp DIN DN20 water inlet

Tablet infeed and outfeed with Tri Clamp DIN DN50.
Integrated wash program for moving motors during wash cycle.
Dust protected connectors for power and communication.
RS232 /RS485 interface for computer.
Interface for software under Windows.
In-and outputs for control and implementation of external devices.
Incl. CE conformity based on norms for machines EG-Ri. 2006/42/EC.

Washing the Tester

A possible wash concept after production of high potent drugs is to seal and disconnect the tester from the tablet press and move it to a washing area. Furthermore, the UTS-IP65i includes a special wash program which can be configured by the user (see description below).

Example of a washing concept and procedure after a production batch run:

Preparation of the Tester:

- Shut off the electrical power supply
- disconnect the electrical power supply cable and communication cable on the unit
- heat seal and cut the tablet inlet connection
- heat seal and cut the tablet outlet connection
- remove any excess of layflat tubing on the outlet connection by heat sealing and cutting
- wheel the unit to the wash area
- connect the drain hose and open drain valve
- connect the compressed air connection
- connect the water hose and open water valve
- reconnect power to the UTS-IP65i
- start the washing process

New fail safe system:

The latest version of UTS-IP65i includes an integrated fail safe system, which prevents any operating errors during the wash preparation and operation.



Wash program:

The user may setup the wash program in the tester setup with 4 parameters, defining the time for the washing cycle and how often the cycle should run. There are 4 washing phases:

Phase 1: In the first phase the feeder chute opens to the star wheel to clean the chute.

Phase 2: In the second phase the feeder chute turns around, the star wheel is also moving. The transport path, the star wheel and the feeder chute is cleaned.

Phase 3: In the third phase the advance mechanism and the thickness gauge move forward and back for careful cleaning.

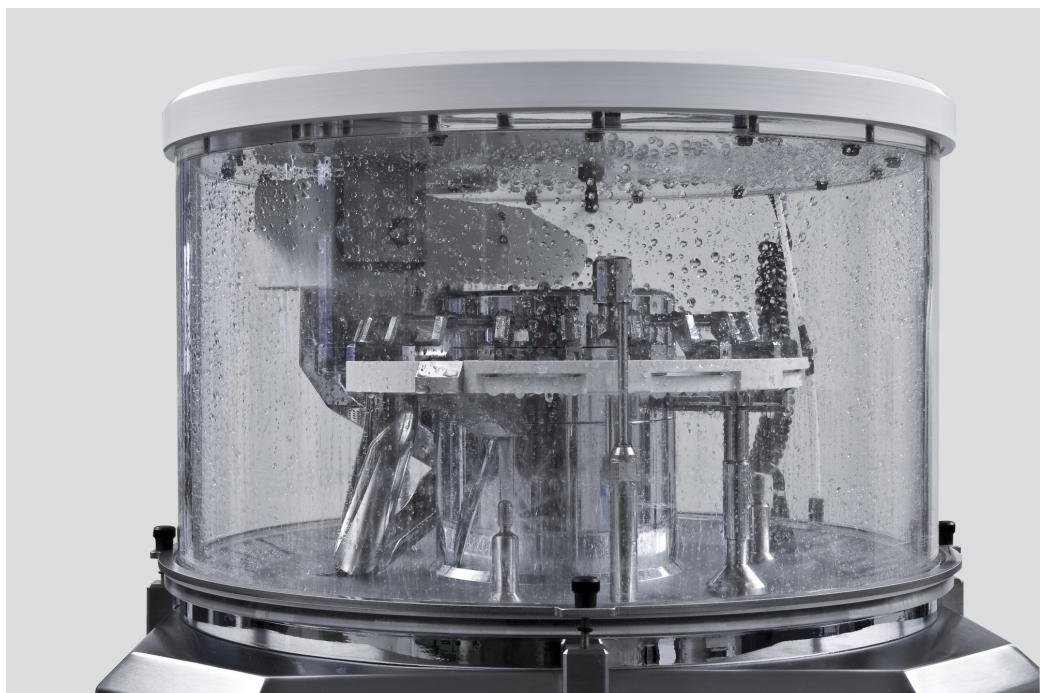
Phase 4: In the last phase only the star wheel turns around. In this phase the water is pushed out of the transport path.

The washing process may be started and stopped through the local operating display located on the top of the tester.

Testing Area



Wash Cycle



Technical data UTS-IP65i

Scale: Precision scale Sartorius WZ64S
 Weight unit: 1 mg, 0,5 mg or 0,1 mg adjustable
 Weighing range: 10 mg to 50 g
 Weighing accuracy: +/- 1 mg stable environment
 +/- 2 mg unstable environment

Thickness tester:
 Drive: Stepper Motor
 Measurement principle: 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 principle: Pressure load cell (DMS)
 Measuring unit: N, Kp or SC
 Measuring range: 4-400N (LMZ 500N standard)
 0,4-40N (LMZ 50N optional)
 Measuring accuracy DMS +/-1N

Diameter tester:
 Drive: Stepper motor
 Measurement principle: Stepper motor
 Measuring unit: mm or inch
 Measuring range round: 3-20mm
 Measuring range oblong length: 3-25mm
 Measuring accuracy: +/-0,1mm

Weight: 80 kg

Utilities:

Equipment: Kraemer UTS-IP65i
Power requirements: 100-240V, 50Hz/60Hz
Compressed air: 6.5 bar
Water supply for wash cycle: 5 bar / 30l/min

For more information please make contact with our local representative or directly with us: www.ischi.ch



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 Certified ISO 9001:2000

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