

STANDARD DEVICE

UTS 4.1

Automated testing system

Fully automated, modular and universal tablet testing system for measuring of weight, thickness, diameter (length) and breaking force (hardness).

Ideally used as a bench model in the laboratory (IPC/R&D/QC) or as a robust and reliable floor use model in the compressing room – the world leader in online connection to various tablet presses. Reliable contactless orientation using the Oblong Centering System OZB.

Patented KRAEMER separating feeder with fast emptying functionality. Operating and display panel for all four parameters, including calibration and validation features. Configuration program for customer specific applications.

All parts requiring cleaning can be removed quickly and easily with no need for tools.

Due to the modular and flexible design the unit can be used as:

- Laboratory device with PH21 Software - 21 CFR Part 11 conform
- Evaluation and online monitoring device linked to a tablet press



Pic.: UTS4.1 with touchscreen display

MEASURED PARAMETERS



WEIGHT



THICKNESS



**LENGTH /
DIAMETER**



HARDNESS



**WIDTH
(OPTIONAL WITH OZB)**

ADVANTAGES

- + Solid industrial construction
- + Reliable results
- + Universal application

FUNCTIONS

- Bench top or floor use
- Laboratory application with monitoring of the complete process
- Results for all 4 parameters shown during test in the display
- Adjustment and calibration via display
- RS232 / RS485 Interface for PC
- 24V Switching outputs for external- diverter and air transport or alarms
- Input / output for external devices

OPTIONS

- PH21 Software
- OZB
- Customized starwheel
- Touchscreen 7"
- 12, 24 or 48 Station Feeder
- Single air transport
- Double air transport
- 2-way sorter
- 3-way sorter
- 12, 24 or 48 sample collector
- Transport device
- IQ, OQ, PQ



CUSTOMER-SPECIFIC-SOLUTIONS

Modell	
S7	With special feeder for tablets up to 25mm diameter
S8	For tablets up to 50mm diameter
S9	For mini tablets
S16	With feeder via a conveyer belt and five-channel-sorting diverter
S17	With two-channel-sorting diverter
S20-FC	Dust-proof with single tablet feeder

TECHNICAL DATA

UTS4.1

Hardness

Measurement principle	Load measurement cell (LMZ) with strain gauge (DMS) Constant speed
Measurement method	Hardness, diameter and thickness measurement
Measuring range	4 – 400N Standard, optional 4 – 40N / 8 – 800N
Measurement accuracy	4 – 400N (+/- 1N), 4 – 40N (+/- 0.1N), 8 – 800N (+/- 2N)
Resolution	1N at 400N range, 0,1N at 40N range, 1N at 800N range
Units of measure	N / Kp / SC
Tablet diameter	3 – 18mm (3 – 30mm manual)
Calibration	Static, optional dynamic

Diameter / Length

Drive	Stepper motor
Units of measure	mm / Inch
Measuring range	3 – 18mm (3 – 30mm manual)
Measurement accuracy	+/- 0.05mm
Resolution	0.01mm

Scale

Model	Sartorius
Weighing range	0.01g – 50g
Weighing accuracy	+/- 1mg stable environment, +/- 2mg unstable environment
Resolution	0.1mg

Thickness

Drive	Stepper motor
Measurement principle	Linear Potentiometer
Units of measure	mm / Inch
Measuring range	0 – 17mm
Measurement accuracy	+/- 0.05mm
Resolution	0.01mm

General

Interfaces	1 X RS-232 / 1 X RS422
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Weight

Weight	40kg Basic device
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Power requirements

Main voltage	100 - 240 VAC, 50 / 60 Hz
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The devices comply with EG-Maschinenrichtlinien 2006/42/EG and EMV 2004/108/EG. Future technical changes reserved. Stand: 04-2020