

**MEASUREMENT PARAMETERS**



**HARDNESS**



**LENGTH / DIAMETER**



**THICKNESS**



**WEIGHT**



**WIDTH (OPTIONAL)**

**ADVANTAGES**

- + Solid industrial design
- + Reliable results
- + Stand alone use or online with tablet press

**OPTIONS**

- PH21 Software, 21 CFR Part 11 compliant
- Oblong Centering System (OZB)
- 12, 24 or 48-station feeder
- Single air conveyor system
- Double air conveyor system
- 3-way sorting diverter
- 12, 24 or 48-station sample collector
- Transportation casters

**STANDARD DEVICE**

# UTS 4.1-Series

## Automatic testing systems

The UTS 4.1 is a universal and fully automated tablet testing system developed for use in industry. The UTS 4.1 is the proven model from a series of tablet testing systems tested over many years - developed in close collaboration with the pharmaceutical industry. The UTS 4.1 enables you to test round, oblong, oval and rectangular tablets, as well as numerous unusual shapes. For tricky oblong tablets, the tried and tested Oblong Centering System (OZB) is available as an option.

Use the UTS 4.1 as a lab tester or online monitoring device connected to a tablet press. Sampling can be initiated either in the production machine or via our PH21 software.

MODEL	W x D x H (mm)	Weight (kg)
<b>UTS 4.1</b>	450 x 630 x 540	40



Optional Oblong Centering System (OZB), see page 34



Optional transportation casters, see page 38

UTS 4.1 tablet testing system, the No. 1 among automatic tablet testing systems for IPC and online applications (photo shows optional touch display)

**BESTSELLER**

**UTS 4.1-12F**  
With 12-station feeder



UTS 4.1-12F tablet testing system with 12-station feeder (device also available with touch display)

**NEW MODEL**



**UTS 4.1-S20**  
Dust-proof version



The dust-proof version of the UTS 4.1-S20 with single tablet feeder guarantees safety at work

**OPTION**

**UTS 4.1 Touch display**  
With touchscreen operation



User-friendly, intuitive operation via touch display

**CUSTOMIZED SOLUTIONS**

**UTS**

If you wish, we can provide special solutions for your specific requirements. Here are a few examples:

UTS

<b>S7</b>	With special feeder for tablets up to Ø 25 mm
<b>S8</b>	For tablets up to Ø 50 mm
<b>S9</b>	For mini-tablets
<b>S16</b>	With conveyor belt feeder and 5-way sorting diverter
<b>S17</b>	With 2-way sorting diverter
<b>S20-FC</b>	Dust-proof with single tablet feeder

MEASUREMENT PARAMETERS

-  **HARDNESS**
-  **LENGTH / DIAMETER**
-  **THICKNESS**
-  **WEIGHT**
-  **ACTIVE INGREDIENT CONTENT**

ADVANTAGES

- + Shorter release times
- + Programmable cycles during ongoing production
- + Qualitative and quantitative online analysis
- + For use in the lab and in production
- + Dust-proof

OPTIONS

- Windows software
- Single air conveyor system
- Double air conveyor system
- 24-station sample collector

STANDARD DEVICE

# UTS NIR



## Automatic testing system with active ingredient content measurement

The UTS NIR automatic tablet testing system combines the measurement of the physical parameters weight, thickness, diameter, length and hardness with near-infrared spectroscopy (FT-NIR analysis) to determine a tablet's active ingredient content.

The UTS NIR is therefore a fully automated online PAT tool, which can be used in production or as an offline tester in the laboratory.

In conjunction with a tablet press, the system allows you to monitor the production process continuously and transmit all test results directly to the tablet press. This way, you can take action straight away if there's a problem, keeping your production process safe.

In addition, the NIRFlex N-500 FT-NIR transmission spectrometer from Büchi Labortechnik AG enables applications to be reliably transferred from the lab tester to the UTS NIR.

The precise, patented two-jaw centering mechanism positions the test specimen with an accuracy of ± 0.1 mm, guaranteeing very precise measurement results that are standard in the laboratory sector.

Its compact, space-saving design and low height mean the UTS NIR fits under all tablet chutes from the most popular press manufacturers. Depending on customer requirements, various sample collectors are available, permitting further analysis in the laboratory.

Removal of all parts requiring cleaning is uncomplicated and very fast, with no need for tools.

The system conforms to the European and US Pharmacopoeia and is 21 CFR Part 11 compliant.

MODEL	W x D x H (mm)	Weight (kg)
<b>UTS NIR</b>	750 x 590 x 615	107



Robust measuring system



Reliable tablet handover



Precise tablet positioning (patented stamp)



Discharge of NIR specimens

Customized version  
of a UTS NIR





MEASUREMENT PARAMETERS



HARDNESS



LENGTH / DIAMETER



THICKNESS



WEIGHT

ADVANTAGES

- + Option of stand-alone use in the lab
- + No tools required to remove parts for cleaning
- + The test area can be cleaned very easily and thoroughly
- + Integrated specimen orientation

OPTIONS

- PH21 Software, 21 CFR Part 11 compliant
- 12-station feeder with single tablet mode
- Single air conveyor system
- Double air conveyor system

STANDARD DEVICE

# UTS IP LR



## Automatic testing systems with protection rating IP54

The UTS IP LR is designed to make sure the work/test area can be thoroughly cleaned. The device is very maintenance-friendly, as all parts can be removed for cleaning with no need for tools.

In the feeder chute, the tablets are automatically de-dusted, separated and conveyed to the test area. Here, a rake system positions the tablets and transports them to the measuring stations. The positioning method upstream of the hardness tester enables almost any shape of tablet to be ideally positioned for diameter and hardness measurements. The tablet stop, pusher and transport segment can be ideally adapted for each product. During product changes, these parts can be replaced in just a few easy steps.

MODEL	W x D x H (mm)	Weight (kg)
<b>UTS IP LR</b>	442 x 615 x 490	40

CUSTOMIZED SOLUTION

<b>UTS IP LR-S2</b>	Version with 12-station feeder Version with cyclone for air transport connection and bypass for single tablets
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Patented radial transport rake



STANDARD DEVICE

# UTS IP65



## Automatic testing system with protection rating IP65

The UTS IP65 is designed for operation in isolators. The UTS IP65 is largely identical to the UTS IP-LR, but the following features set it apart:

- External operation (display and control device outside the isolator)
- Encapsulated weighing device
- Wash down capability

MODEL	W x D x H (mm)	Weight (kg)
<b>UTS IP65</b>	470 x 400 x 450	40
<b>CONTROL DEVICE</b>	350 x 185 x 135	2.5

MEASUREMENT PARAMETERS



HARDNESS



LENGTH / DIAMETER



THICKNESS



WEIGHT

ADVANTAGES

- + No tools required to remove parts for cleaning
- + The test area can be cleaned easily and thoroughly
- + Integrated tablet orientation

OPTIONS

- PH21 Software, 21 CFR Part 11 compliant
- Single air conveyor system
- Double air conveyor system



Patented, integrated diverter plate

Version for an isolator.  
Connections via Triclamp DIN DN50

MEASUREMENT PARAMETERS



HARDNESS



LENGTH / DIAMETER



THICKNESS



WEIGHT

ADVANTAGES

- + Only testing system with integrated washer nozzles
- + WIP (Wash-In-Place) system
- + WOL (Wash-Off-Line) system
- + Integrated 360° LED status display
- + Hermetically sealed system, class OEB 5
- + No isolator required as the system is sealed

OPTIONS

- PH21 software, 21 CFR Part 11 compliant
- Version for single tablet feed
- Cover with glove ports

STANDARD DEVICE

# UTS IP65i



## Automatic testing system – hermetically sealed & washable

The UTS IP65i system is an add-on to washable tablet presses for WIP or WOL applications, for the processing of medium and high-potency products.

The UTS IP65i is the first unique fully washable, universal testing system launched, and available globally. The work/test area has protection rating IP65 and the cleaning process is fully controlled.

The integrated fail-safe system rules out possible operator errors even in the preparation phase and during the washing process, and ensures error-free routines. There are user-defined parameters for the washing programs, for setting the washing time per washing cycle, the number of washing cycles and the duration of the individual washing phases.

**The system can be used in the following ways:**

- Online with control via tablet press
- Stand-alone with PH21 software
- Online with PH21 software

MODEL	W x D x H (mm)	Weight (kg)
<b>UTS IP65i</b>	621 x 623 x 687	80



Open construction for optimum washing results





Isolated work area, wash in progress



OEB 5

Compact and space saving design, LED indicating operation status