# Testing Systems for use in the laboratory

## STANDARD UNIT

# UTS 4.3

LAB version
Automatic test system

The UTS 4.3 is a universal and fully automatic tablet testing system based on the long-proven UTS 4.1 – this was developed for industrial use and can be found in production worldwide. The UTS 4.3 as a LAB version is now equipped with the database-driven, intuitive all-in-one touch software and no longer requires additional software solutions for most areas of application.

The functionality of the software can be extended modularly and individually adapted to your needs and requirements. FDA regulations can be fulfilled with the optional FDA-21-CFR-Part-11 module.

With UTS 4.3 – as with the proven UTS 4.1 in the IPC range – you can test round, oval, square and rectangular tablets as well as numerous special shapes. For difficult oblong tablets, the globally used Oblong Centering System (OZB) can also be integrated.

### MEASUREMENT PARAMETERS

- WEIGHT
- THICKNESS
- DIAMETER
- LENGTH
- HARDNESS
- WIDTH (OPTIONAL WITH OZB)

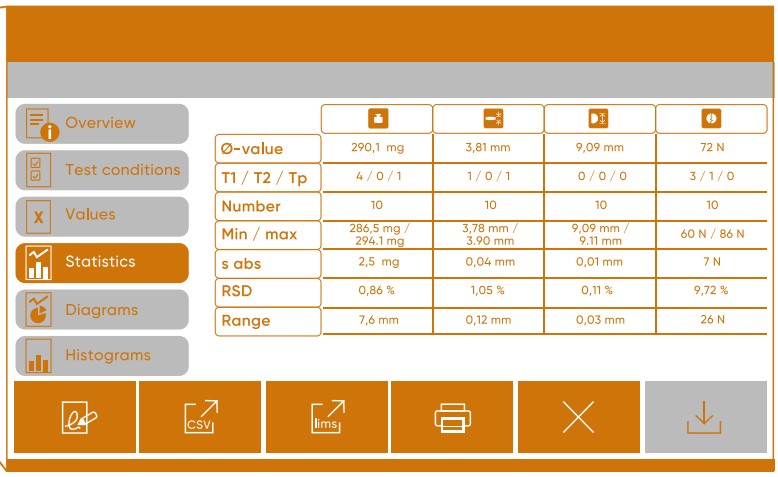
### ADVANTAGES

- Intuitive touchscreen operation
- Modular expandable database-driven All-in-one touch software
- Automatic positioning of tablets
- Measuring range (hardness) optional up to 1000 N
- Interfaces: USB and LAN
- Solid construction

### OPTIONS

- Oblong Centering System (OZB)
- Load cells: 500 N (standard), 1000 N
- 12-station collector
- License: FDA 21 CFR Part 11 (including audit trail, batch report, user management)
- Licenses: TTS11 interface, user management, import and export (LIMS, CSV), IQ/OQ
- Further software licenses on request

Figure: UTS 4.3 as basic unit




Pic.: Powerful, innovative touch panel software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OSD technologies

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## Technical data UTS 4.3v

www.ischi.com

| Scale | Technically specified | Guaranteed for this specific device |
|---|---|---|
| Unit of measurement | mg / g | mg / g |
| Measuring range | 10 – 50 000 mg | 10 – 50 000 mg |
| Measuring accuracy | ±1 mg in stable environment, ±2 mg in unstable environment | ±1 mg in stable environment, ±2 mg in unstable environment |
| Measurement resolution | 1 mg / 0.1 mg (adjustable) | 1 mg / 0.1 mg (adjustable) |

| Thickness | Technically specified | Guaranteed for this specific device |
|---|---|---|
| Unit of measurement | mm / Inch | mm / Inch |
| Measuring range | 0 – 17 mm | 3 – 12 mm |
| Measuring accuracy | ±0.05 mm | ±0.05 mm |
| Measurement resolution | 0.01 mm | 0.01 mm |

| Diameter/length | Technically specified | Guaranteed for this specific device |
|---|---|---|
| Unit of measurement | mm / Inch | mm / Inch |
| Measuring range | 0 – 18 mm | 3 – 18 mm |
| Measuring accuracy | ±0.05 mm | ±0.05 mm |
| Measurement resolution | 0.01 mm | 0.01 mm |

| Hardness | Technically specified | Guaranteed for this specific device |
|---|---|---|
| Measuring range | 4 – 500 N (standard),<br>8 – 1 000 N (optional),<br>4 – 50 N (optional) | 4 – 400 N (standard),<br>8 – 800 N (optional),<br>4 – 40 N (optional) |
| Measuring accuracy | ±1 N (standard),<br>±2 N at 1000 N (optional),<br>±0.1 N at 50 N (optional) | ±1 N (standard),<br>±2 N at 800 N (optional),<br>±0.1 N at 40 N (optional) |
| Unit of measurement | N / Kp / SC | N / Kp / SC |
| Calibration | Static, optional dynamic | Static, optional dynamic |

| General | |
|---|---|
| Interfaces | 1 x RS-232 / 1 x RS-422 |
| W x D x H | 495 x 624 x 545 mm |
| Weight of basic unit | 42 kg |
| Mains connection | 100 – 240 VAC, 50 / 60 Hz |

## Type options:

UTS 4.3
With feeder

UTS 4.3
With collector

UTS 4.3
With feeder and collector

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