USTER® AUTOSORTER 6
USTER® UNWINDING DEVICE-A
USTER® ZWEIGLE
YARN REEL
ROVING REEL
YARN INSPECTION WINDER
The essential laboratory systems

Technical Data

October 2018
Basic installation USTER® AUTOSORTER 6

Determination and analysis of the count of sliver, rovings, yarns and weight per unit area for fabrics.

Overall installation

Functions
– Determination of count of yarns, rovings and slivers
– Determination of the weight per unit area of woven and knitted fabrics
– Easy operation by using prestored test programs
– Analysis, evaluation and data storage of the measurement values

Included in the delivery
– Control unit consisting of the Panel PC with touch-screen
– Balance with glass cover
– Bowl for weighing sliver and rovings

A separate network cable is not included

Application range
Measurements in the range of 0.001 to 320 g

Control unit

USTER® AUTOSORTER 6 computer software
– USTER® AUTOSORTER 6 intuitive touch application software
– Windows 10 IoT operating system

USTER® AUTOSORTER 6 computer hardware
– Industrial computer with Intel® processor
– 2 internal hard drives for operating system, data storage and data backup
– 500 GB data storage
Application software USTER® AUTOSORTER 6

Reports

Type of report
- Standard test report of the measurement series
- Predefined table reports for different application
- Live view report during measurement

Display and printout of the reports
- Analysis tool with all measured data
- Automatic printout possibility after the measurement

Numerical output of results
Average count of yarn, roving and sliver, and weight per unit area of fabrics

Statistics

Statistical values
Overall result protocol with statistical data of the test results
- Mean value
- Standard deviation
- Coefficient of variation
- Q95 % confidence interval
- Minimum value
- Maximum value

Data protection
- Automatic data backup to dedicated internal hard drive every 15 minutes
- Data export to external USB or other network devices supported

Input of data, output of results, report languages
Dialog and report languages
Chinese, English, French, German, Italian, Japanese, Portuguese, Russian, Spanish or Turkish (other languages on request)

Possible units
- Weight units: mg, g, oz, GN
- Textile units: Tex, dtex, mtex, den, GN/yd, Nm, Nec, New, Nel, YSW, g/m², GN/yd², mg/cm², lb/in², oz/yd²
- Length units: m, yd
- Area units: yd², m², in², cm²

System security
Protection functions
- System protected from viruses, network and other security threats
- Remote support capabilities built in
- Diagnostic tools with extensive event logging
General

**General ambient conditions**

**Room climate**
The ambient conditions must be maintained in order to avoid any influencing of the test material according to ISO 139 (2011)
- **Temperature:**
  - (20 ± 2) °C for standard atmosphere and (23 ± 2) °C for standard alternative atmosphere
- **Humidity:**
  - (65 ± 4)% relative humidity for standard atmosphere and (50 ± 4)% for standard alternative atmosphere

**Operating temperature**
- Balance: +5 to 40 °C
- Panel PC: 0 to app. 40 °C

**Storage temperature**
- Balance: -25 to 70 °C
- Panel PC: -10 to app. 50 °C

**Installation data**

**Electrical connections**
Single phase mains with protective conductor

**Mains voltage range**
- Balance: 100 to 240 VAC, ±10 %; 0.3 A
- Panel PC: 100 to 240 VAC, ±10 %

**Mains frequency**
- Balance: 50/60 Hz
- Panel PC: 50/60 Hz

**Power consumption**
Maximum 94 VA

**Dimension**
Balance: length 319 mm, width 210 mm, height 289 mm
Panel PC: length 210 mm, width 528 mm, height 420 mm

**Weight of the installation**
Net weight Balance: app. 5 kg
Net weight Panel PC: app. 11 kg
Basic installation USTER® UNWINDING DEVICE-A

Unwinding device for roving, rubbing and sliver.

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<td>Application range</td>
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<td>(limitations according to the type of fiber are possible)</td>
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<tr>
<td></td>
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## General

**General ambient conditions**

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  - (65 ± 4) % relative humidity for standard atmosphere and (50 ± 4) % for standard alternative atmosphere

**Installation data**

**Electrical connections**
Single phase mains with protective conductor (automatic version)

**Mains voltage range**
110 to 230 VAC (automatic version)

**Mains frequency**
50/60 Hz (automatic version)

**Power consumption**
Maximum 150 VA (automatic version)

**Dimension**

App. length 30 cm, width 60 cm, height 60 cm (automatic version)

App. length 60 cm, width 110 cm, height 120 cm

**Weight of the installation**

**Automatic version**
Net weight: app. 69 kg

**Manual version**
Net weight: app. 25 kg
Basic installation USTER® ZWEIGLE YARN REEL

Creates skeins of yarn for determining yarn count using the USTER® AUTOSORTER.

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<tr>
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<th>Functions</th>
<th>Precise instrument for creating skeins of a predetermined yarn length</th>
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# General

## General ambient conditions

**Room climate**

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  - (23 ± 2) °C for standard alternative atmosphere

- **Humidity:**
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  - (50 ± 4) % for standard alternative atmosphere

## Installation data

### Electrical connections

Single phrase mains with protective conductor

- **Mains voltage range**
  - 230 VAC; +6/-10 %

- **Mains frequency**
  - 48 – 52 Hz

- **Power consumption**
  - Maximum 150 VA

### Dimension

- **App. length** 80 cm, width 80 cm, height 53 cm

### Weight of the installation

- **Net weight:** app. 44 kg
Basic installation USTER® ZWEIGLE YARN INSPECTION WINDER

Visual evaluation of yarn evenness and periodical faults.

**Basic equipment**

**Functions**
- Visual evaluation of the yarn evenness, neps, thin and thick places and hairiness
- Visual evaluation of periodical faults

**Included in the delivery**
- Testing instrument
- 10 black or white boards

**Application range**
Measurement range: app. 1 to 100 tex
(limitations depending on the type of fiber are possible)
### General

**General ambient conditions**

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**Installation data**

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<tr>
<td><strong>Power consumption</strong></td>
<td>Maximum 100 VA</td>
</tr>
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</table>

**Dimension**

- App. length 90 cm, width 40 cm, height 28 cm

**Weight of the installation**

- Net weight: app. 36 kg
Uster Technologies has made all possible efforts to ensure that all information is accurate at the time of publication. Hereby it is declared that alterations to the product may be possible at any time. In these cases the information contained in this technical datasheet is subject to change without notice.

October 2018