



# USTER® RSO 3D

The third dimension of quality

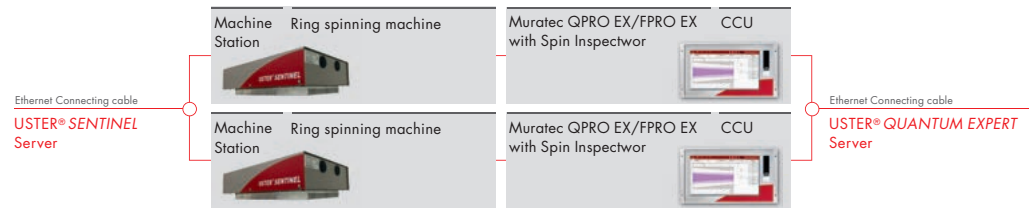
Technical Data

March 2021

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USTER® RSO 3D provides individual cop quality data for each ring spindle position. The intelligent combination of USTER® SENTINEL, USTER® QUANTUM 4.0, USTER® QUANTUM EXPERT and Muratec QPRO EX/FPRO EX with Spin Inspector reveals a unique preventive system in quality control for textile mills.



## Basic installation

### Overall installation

#### Functions

Automatic and bidirectional data transfer between ring spinning and link winding machines for enhanced quality transparency in ring spinning process

#### Version

- Please note that updates for the individual instruments and winders might be necessary to activate USTER® RSO 3D
- These software updates for individual instruments are included for USTER® instruments. Possible software updates of winding machines have to be clarified with the manufacturer

#### Scope of delivery

- Application software
  - POK (Product Option Key) for the activation of the respective CCU(s)
  - Operation instruction manual
- Uster Technologies AG does not supply separate cables for the connection between USTER® QUANTUM 4.0 and USTER® SENTINEL, the customer obtains these cables locally

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### Application Software

Feature overview	<b>Defective cop ejection</b>	Defective cops are ejected before being wound on Muratec QPRO EX/FPRO EX winders
	<b>Quality information for individual spindles</b>	The quality data coming from USTER® QUANTUM 3/4.0 clearers is displayed for each and every ring spindle position on the ring spinning machine at the end of every doff, on the USTER® QUANTUM 3/4.0 CCU (Central Clearing Unit)
	<b>Outlier cop detection</b>	<ul style="list-style-type: none"> <li>– Cops with quality problems are indicated on USTER® SENTINEL</li> <li>– Poor quality cops on ring spinning machines are stopped, if the Roving Stop option is available and activated</li> <li>– The Roving Stop receives the relevant information from USTER® QUANTUM 3/4.0 via USTER® SENTINEL</li> </ul>
Graphic output of results	<b>Favorites</b>	<ul style="list-style-type: none"> <li>– A maximum of 6 different quality parameters can be stored according to customer selections</li> <li>– 'Favorites' are then directly selectable on the main screen for quick access</li> </ul>
Data connection	<b>Instruments</b>	<p>The following instrument connections are mandatory:</p> <ul style="list-style-type: none"> <li>– USTER® SENTINEL with/without Roving Stop option</li> <li>– USTER® QUANTUM 3/4.0</li> <li>– USTER® QUANTUM EXPERT</li> <li>– Muratec QPRO EX/FPRO EX with Spin Inspector (spindle identification system)</li> </ul> <p>Uster Technologies AG does supply the mandatory instruments separately. Therefore these instruments are not in the scope of the delivery of USTER® RSO 3D and a separate PC unit is not supplied</p>
	<b>Back up</b>	The quality data of the last 4 doffs are stored on the CCU
	<b>Logbook</b>	Changes made on alarms are recorded
Input data, output of results, languages, units on the USTER® QUANTUM 4.0 CCU	<b>Dialog and report languages</b>	English, German, French, Italian, Spanish, Portuguese, Turkish, Russian, Chinese Japanese and Vietnamese, Thai, Korean, Indonesian can be selected (other languages on request)
	<b>Possible units</b>	<ul style="list-style-type: none"> <li>– Yarn counts: Nec, Nm, Tex,</li> <li>– Productivity: m/min, yd/min</li> <li>– Length: m, km, yd, ky</li> <li>– Weight: g, kg, lbs</li> <li>– Time: minutes, hours, shift, week, month, year</li> </ul>

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System security	<b>Protection functions</b>	Protection functions are already implemented on the level of connected USTER® instruments
Reports on CCU	<b>Quality mapping report</b>	<ul style="list-style-type: none"><li>– Report for evaluating quickly the individual spindle position quality for identification of outlier sides, sections or spindles</li><li>– The quality mapping report also allows to trace problems back to the individual roving machine and roving</li></ul>
	<b>Display and print-out of the reports</b>	<ul style="list-style-type: none"><li>– Reports can be seen on winder CCU(s)</li><li>– Screenshots of the CCU can be taken and transferred to a USB stick</li></ul>
Upgrades	<b>USTER® QUALITY EXPERT connection</b>	Further reports are available with the connection to USTER® QUALITY EXPERT

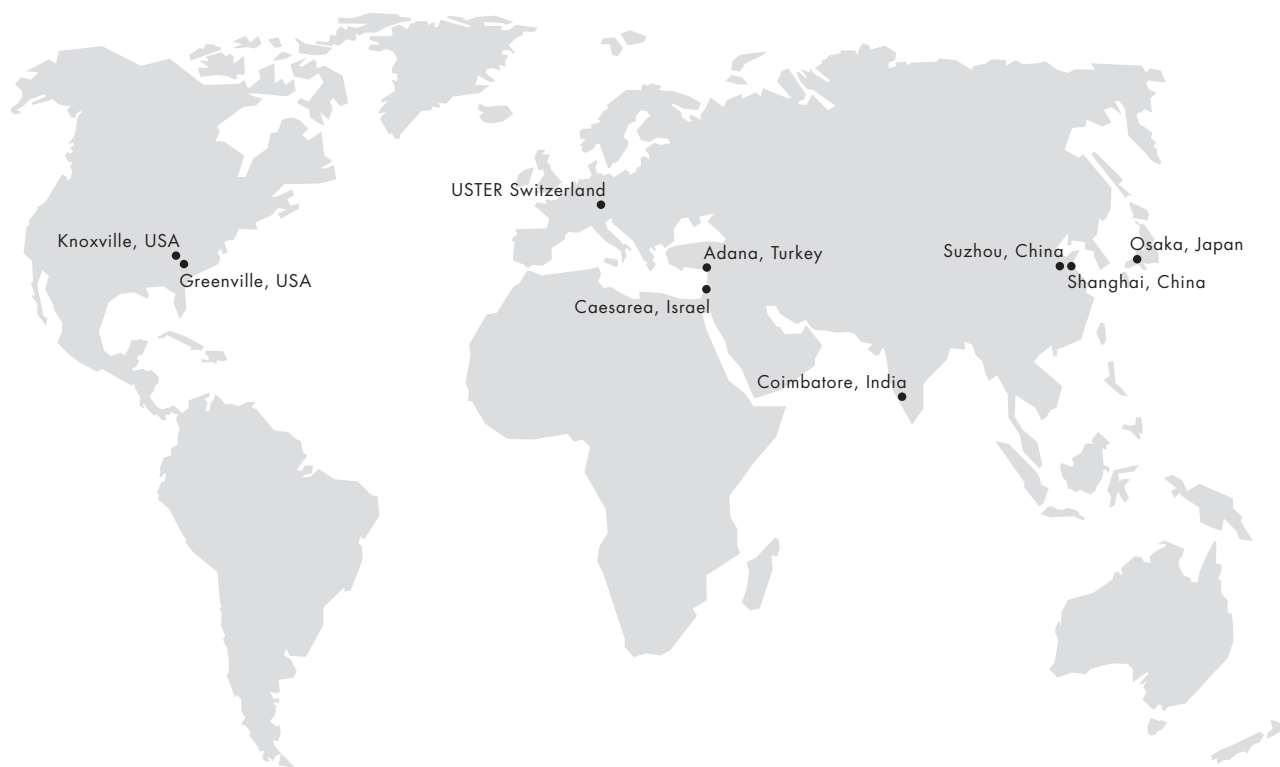
## Installation conditions

USTER® RSO 3D is available for link winders only. For detailed technical specifications of the Muratec QPRO EX/FPRO EX winders please consider separate technical documentations from MURATA MACHINERY, LTD.

For detailed technical specification of USTER® instruments, please consider the relevant documentation of the individual instrument.

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.

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