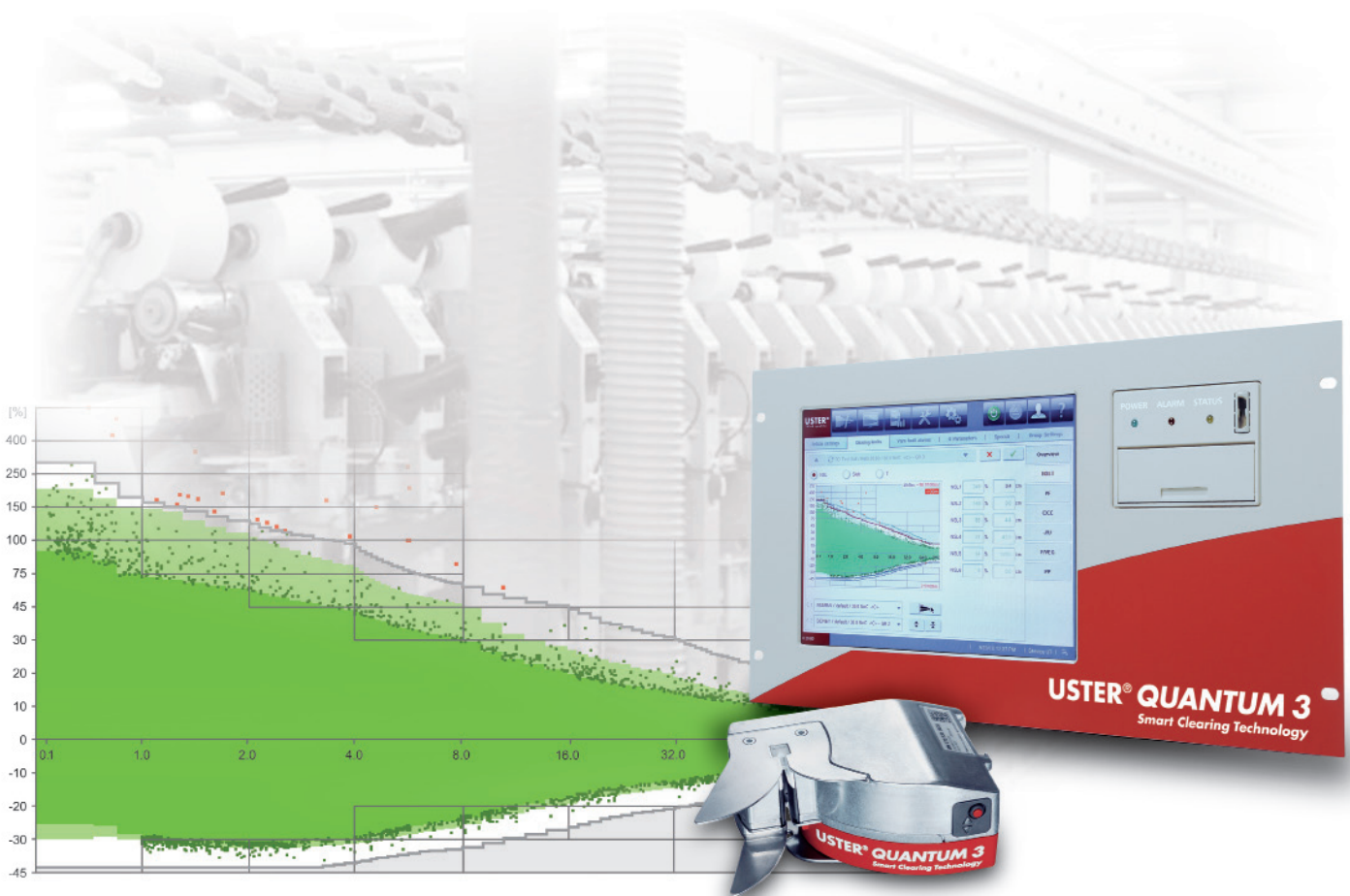


# USTER® QUANTUM EXPERT 3

THE YARN QUALITY ASSURANCE SYSTEM



## TECHNICAL SPECIFICATIONS

September 2010 / Edition 2  
SE 653

**USTER®**  
Think quality

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## 1 The product

USTER® *QUANTUM EXPERT 3* is the successor of the USTER® *QUANTUM EXPERT* for WINDING (also referred as CONE EXPERT).

It is a software system that is connected to the CCUs of both UQC2 and UQC3 installations and

- Collects the production and quality data as well as the settings and configurations
- Stores all this information in a database
- Reports the results according to the user's customized reports
- Edits and configures articles and their settings and then distributes them in the networked CCUs
- Synchronizes the articles that have been created and used in the CCUs and the EXPERT
- Monitors the current production

USTER® *QUANTUM EXPERT 3* is available in two editions with different features to meet different users' needs and profiles:

- The first edition, called PRO, is the edition with all those features that are necessary for a spinning mill to manage and report the data from the yarn clearers in a professional way.
- The second edition, called ULTIMATE, has all the features that are necessary for a spinning mill to utilize all the advanced functions of the clearer and benefit the advantages of a modern analysis and reporting system.

Both editions are designed to keep the focus on:

1. Ergonomics
2. Easy to use
3. Future oriented architecture

USTER® *QUANTUM EXPERT 3* is offered with two types of licenses; the yearly license and the perpetual license.

## 2 Editions and features

Features	PRO	Ultimate
- Connect to older clearer generations	•	•
- User management - authorization	•	•
- Data storage in a database	•	•
- System self-diagnosis tools	•	•
- Intelligent help system	•	•
- Set of predefined role oriented reports	•	•
- Uploading articles' data	•	•
- Machines monitoring	•	•
- Exceptions handling and reporting	•	•
- Rule engine and handling	•	•
- Shift calendar	•	•
- Report wizard		•
- Remote handling of CCUs		•
- Remote support and control tools		•
- Special reports		•
- Articles synchronization and management		•
- Modify, store and download article settings		•
- Illustrate, store and compare yarn bodies		•
- Training mode		•
- Alert management		•
- Collection of scatter plots		•
- Service logs from the clearers		•

Table 1

## 3 Hardware types suitable for connection and types of connection

CCU type	Yarn clearer types	Expert system	Connection type
SG99 <sup>1</sup> SG2000 <sup>1</sup> CCU2006 CCU6	UQC UQC2 UQC3	USTER® QUANTUM EXPERT for WINDING	Cable

Table 2

- The CCU must be updated to the latest software edition available.

## 4 Languages and Units

**Dialog languages** German, English, Chinese, Turkish, Italian, Spanish

### Units

Productivity	Weight	Clearer cuts counter	Yarn count	Time	Yarn package
m/min	g	/100km	Nec	min	bobbin
kg/h	lbs		Nm	h	cones
			tex	shift	
				week	
				month	
				year	

Table 3

## 5 PC requirements (minimum)

CPU	Intel Core 2 Duo
RAM	2GB (Server) and 512 MB (Client only)
Hard disk	2 disks of 100GB (one as backup)
Drives	1 USB 2.0 port, 1 DVD Drive
Network	Gigabit Ethernet Connection
Display	17" TFT monitor (minimal resolution: 1024 x 768)
Graphic card	VGA with support of DirectX 7.0 with PixelShader 2.0
Internet connection	Broadband connection with minimum 512 kbps speed
SQL Server	Microsoft® SQL Server 2008 Express Edition (will be installed together with the software)
Operating system	Windows XP SP3, Windows Vista or Windows 7
Other 1	Internet Explorer 7 or higher
Other 2	Acrobat reader 6.0 or higher
Other 3	Uninterruptable Power Supply
Other 4	Anti-virus – the system is tested with McAfee software, other software may be applicable but need to be tested first

Table 4

## 6 Scope of supply

The product package that the customer receives includes:

- DVD with the software program USTER® *QUANTUM EXPERT 3* and the necessary software
- A dongle key
- The operating instructions manual
- Product Option Key(s) for the activation of the respected CCU(s)

## 7 Description of the menus and their function

Monitoring	All the machines that are connected are displayed at this screen. The machines are divided into their physical groups with a color indication to distinguish among the articles that are processed at each group.
	A set of parameters to control can be chosen from the left-hand sliding window and if the off-limit settings of that respected parameter overstepped, the indication becomes red.
Reports	All the prepared reports are stored here and can be selected by the user. There are two main filters available when using the report; the time and the location and this is to make the navigation and analysis smart and easy.
	The data is reported in all different kinds of representations; tables and charts. There are some special report types such as classification data, scatter plots, histograms.
	The user is also in position to alter the format of a report by changing some parameters to show or their position or their units and save this report as a standard report.
Articles	All the articles that are available in the CCUs and also at the EXPERT server can be shown here. The user can select an article and compares its settings with another, change the clearing limits, downloaded to one CCU and synchronize it with other selected CCUs.
	The visualization of the clearing limits is easy and smart; the user can see all the information in one screen and select to edit a parameter from the same screen.
Configuration	The system has been setup by configuring the CCU that are to be connected; the only thing that is necessary is to specify the IP address range and the EXPERT is taking care of the scanning and finding of the machines.
	The general units to be used for the data reporting are defined here. Also, the way of synchronization is determined here.
	The users of the system are configured here. It is necessary to configure the role and the access level of each user.
	The shift plans of the spinning mill are configured here. The way of doing it is easy and intuitive; the user has only to scroll the mouse to define the duration of the shifts.

## THE YARN QUALITY ASSURANCE SYSTEM

Tools	Service logs
	Self-diagnosis
	Training mode
	Database (backup and restore if the client is executed on the server machine)
	Access to the help system
	User switch
	Remote access to the CCU
	Language change

*Table 5*

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