

# USTER® QUANTUM EXPERT 3

The yarn quality assurance system

# Introduction

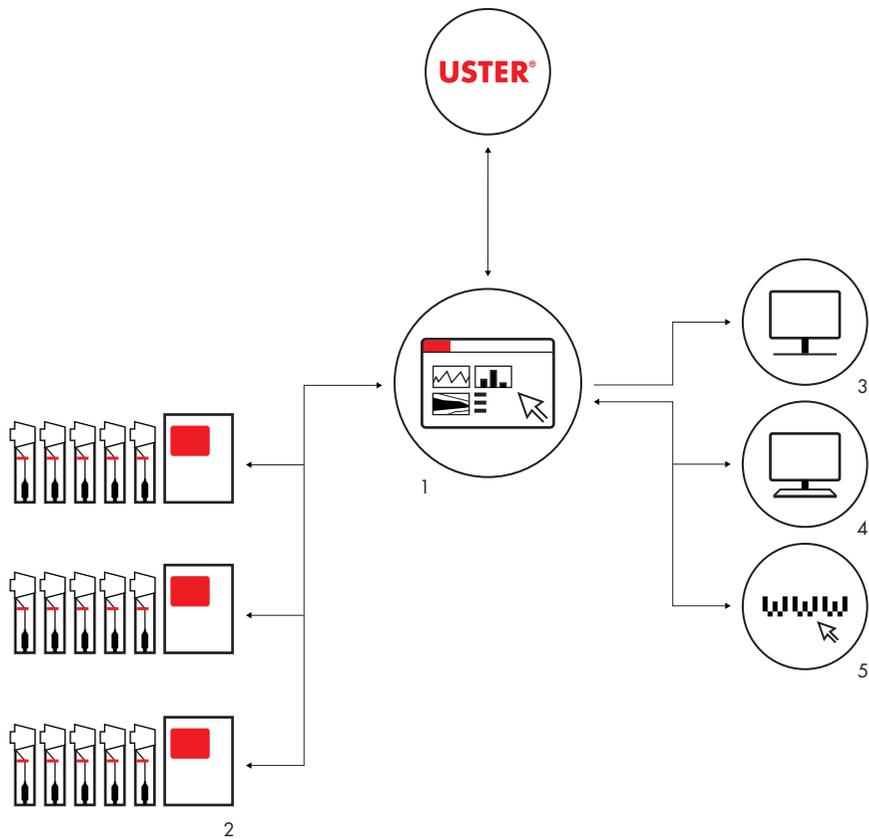
With the USTER® *QUANTUM EXPERT 3*, you don't have to be an expert.

Because this amazing new software package for the USTER® *QUANTUM EXPERT 3* online yarn quality assurance system actually does everything for you – and it does it the smart way.

From collating and sorting all your complex jobs into a logical database through Smart Synchronization, to providing you with Smart Reports that really mean something. USTER® *QUANTUM EXPERT 3* is all you need to get the most out of your yarn-clearing installation.

And when we say smart, that's exactly what we mean. No other package has the power to examine all the quality data from yarn clearing and translate it into intelligent expert advice on how to optimize and organize the whole process, ultimately making your winding machines more productive and profitable than ever.

It all adds up to a very smart choice for trouble-free integration, lightning-fast reaction and a guarantee of consistent and sustainable quality in your winding department.



#### How it works

- At the center is the USTER® QUANTUM EXPERT 3 server [1]  
All the central clearing units are connected to the server with a standard network cable
  - All generations of USTER® QUANTUM clearers can be connected to the system
  - The server continuously collects the data automatically from all connected clearers [2]
  - The system presents the collected data in one of a number of report format options
  - The system filters outliers alone based on defined limits for immediate action
- Data can be accessed or shown in different ways:
- Directly from the server
  - On a large screen (read only) in the winding room [3]
  - From a workstation connected to the server [4]
  - Over the Internet [5]

#### What is new

- State-of-the-art software platform and architecture
- Fast and easy setup
- Simple one-screen overview of status and productivity of all connected winders
- Smart reporting: starting with an overview, users can drill deeper into the same report to identify abnormalities
- Extend or shorten the reporting period with a simple mouse click
- Automatic or manual synchronization: clearer settings changes can be synchronized across all control units (running the same article)
- Remote connection: the display of each USTER® QUANTUM 3 clearer control unit can be accessed from the server
- Remote support: where permitted, USTER service can remotely access the system for fast diagnosis and problem solving

# Smart Synchronization

Sometimes it's inevitable that things get confused in a spinning mill: article names, settings and reports can all too often make data analysis a nightmare and meaningful comparisons impossible, especially in a busy winding department.

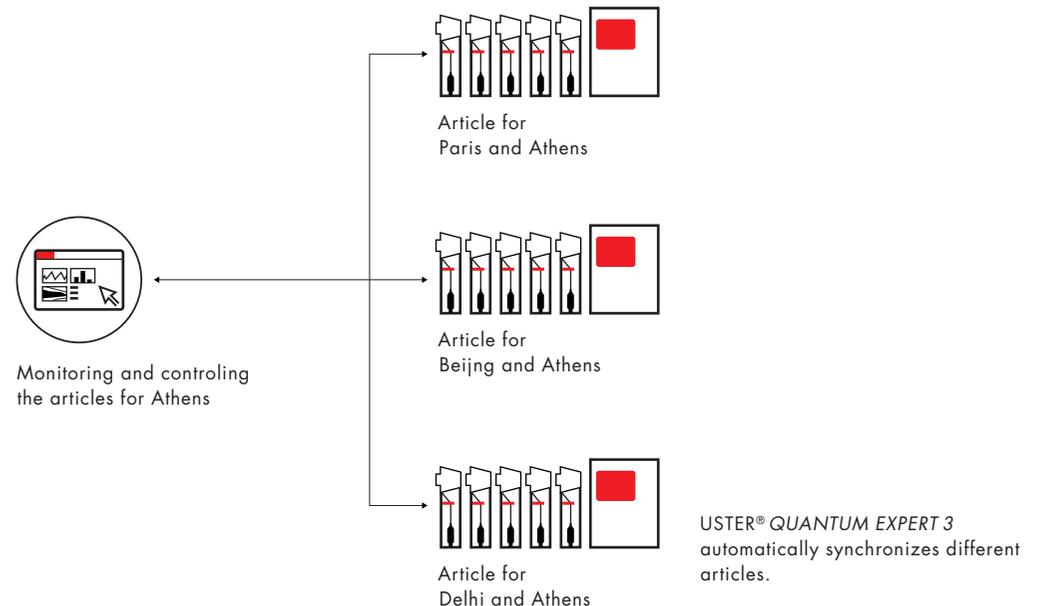
How good would it be if all of that potential mess could be sorted for you – at a stroke? That's where Smart Synchronization comes in, with the USTER® QUANTUM EXPERT 3.

Put simply, the system takes an overview of articles stored from all connected CCUs – and then examines the clearing parameters of those with the same names constantly.

When the system detects changes to the clearing limits of an article it automatically applies them to each of the CCUs processing or having the same article. This ensures uniformity in yarn quality and of course a consistent articles database which can be instantly applied to each of the CCUs.

This is not merely a "sorting" exercise based on letters and numbers. This is genuinely Smart Synchronization, looking at vital quality parameters as well, and it all works automatically, making your task of handling and processing all the different articles on your winding machines much simpler, faster and more reliable.

Smart Synchronization also works at the CCU level on the winder when it is connected to the USTER® QUANTUM EXPERT 3 network. When an article is created or modified at one CCU, the system automatically scans all other connected winders in the network. If authorized, USTER® QUANTUM EXPERT transfers and implements changes made at one CCU to others processing the same article. And everything happens in real time, with critical information and alarms shown up instantly on the CCU – dramatically cutting reaction times and reducing waste.



# Smart Reporting

Today's software packages can produce reports on virtually any batch of data records. Unfortunately, that is not enough – because the vast amount of data involved usually makes intelligent analysis or interpretation of such reports impossible.

What's needed are reports that actually lead to conclusions, helping the user to make informed and appropriate choices about his processes. And that's exactly what Smart Reporting does with the USTER® *QUANTUM EXPERT 3*. A tremendous advantage for everyone – and especially for new users.

Customers told us that they wanted predefined, easy-to-use data reports, focusing on the aspects of the job they use most frequently. USTER® *QUANTUM EXPERT 3*'s Smart Reporting feature meets that need precisely, using an intuitive interface that gets the information across quickly and clearly.

With Smart Reporting, the analysis options are greater than ever before. Reports can even be tailored to filter out exceptions and pinpoint the reasons behind any loss of efficiency. And users can amend and modify both the form and content of reports, on the fly, while working through the data. Smart Reporting also allows mill personnel to select report types suited to their own duties and responsibilities, so they rapidly pick up relevant knowledge as they work with it.

Another valuable and unique advantage of the USTER® *QUANTUM EXPERT 3* is access to USTER's long experience in yarn clearing, through a series of specially integrated reports which can be used to plan process improvements. A lot of software systems claim to be "easy to use" – but only with USTER® *QUANTUM EXPERT 3* is that description really accurate.

	Speed	Prod	Length	PEF	ALF	YF	YB	Y2	Run Time	Stop Time
	mm/min	kg	m	%	%	per 100 km	per 100 km	per 100 km	h	h
03/06/2011										
UQ3 18	903.16	0.95	69.00	21.68	21.65	53.15	21.33	104.44	1.12	3.6
UQ3 18	989.52	0.98	83.00	57.41	77.15	193.92	25.39	232.56	1.40	1.0
UQ3 18:1	981.03	0.49	41.40	57.85	67.92	212.56	13.53	246.38	0.70	0.5
56s C15 CLN / VSNR074LPW / 84.7 Nm (Q3-C-F-P)	981.03	0.49	41.40	57.85	67.92	212.56	13.53	246.38	0.70	0.5
UQ3 18:1.1	1,103.89	0.07	6.20	77.12	76.89	145.16	32.26	177.41	0.09	0.0
UQ3 18:1.2	1,078.29	0.07	6.20	78.41	76.41	177.41	32.26	209.67	0.10	0.0
UQ3 18:1.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.1
UQ3 18:1.4	940.44	0.06	5.00	73.00	72.50	160.00	40.00	200.00	0.09	0.0
UQ3 18:1.5	845.87	0.04	3.20	62.06	51.59	124.16	62.50	593.71	0.06	0.0
UQ3 18:1.6	883.72	0.06	5.20	80.76	80.23	134.54	57.70	192.34	0.10	0.0
UQ3 18:1.7	1,019.21	0.07	6.20	82.96	82.95	129.03	45.39	177.41	0.10	0.0
UQ3 18:1.8	1,000.84	0.04	3.20	41.42	41.14	281.23	31.25	281.23	0.05	0.0
UQ3 18:1.9	989.65	0.06	4.80	66.59	66.14	270.84	41.67	312.51	0.08	0.0
UQ3 18:1.10	736.53	0.02	1.40	26.16	26.21	142.92	71.94	285.83	0.03	0.0
UQ3 18:2	990.00	0.49	41.60	57.04	56.54	170.92	15.03	218.75	0.69	0.5
YC15	1,264.46	3.32	224.64	44.49	34.17	24.30	19.33	86.46	2.96	0.5
UQ3 15	1,108.72	1.64	111.20	73.50	73.35	90.30	31.00	131.50	1.67	0.6
	1,059.83	10.16	784.24	52.19	52.07	95.83	33.19	127.49	12.05	6.9

USTER® *QUANTUM EXPERT 3* automatically highlights information that needs attention.

# Smart Simplicity

A lot of software systems claim to be “easy to use” – but only with USTER® *QUANTUM EXPERT 3* is that description really accurate.

The proof, of course, will come in practical experience using the system. But it might help to explain what makes USTER so confident you will agree with our assertion.

We set out clear goals at the start of the software design process, with simplicity of use as an absolute priority. That meant investing time to ensure that the ergonomics of the user interface were spot on, using the best available programming and design technology.

We also realized that the system needed to be easy to learn, and for this we made a new smart rule for ourselves – in this case an acronym for “Sixty Minutes Along Real Training.” That’s a neat way of expressing how quickly a new user can become familiar with USTER® *QUANTUM EXPERT 3*. After just one hour, users will be able to configure the system, find and modify reports, set clearing limits, define exceptions and optimize article synchronization – all the basic skills needed to operate USTER® *QUANTUM EXPERT 3*.

Naturally, the system has a “help” facility that is just as smart as you would expect. Specific help on various issues is one click away, and conventional “help” structures are boosted by useful new features such as screencasts.

Remote access is a built-in feature – any problems can be diagnosed, 24/7 from anywhere in the world, with links to USTER resources for software updates, troubleshooting, consulting and application support.

# Product configuration

PRO	ULTIMATE	Modules and their functionalities	
	 	<b>Remote</b>	Remote support and control tools Remote handling of CCUs
	    	<b>Articles</b>	Limits editor Articles synchronization and management Modify, store and download articles Collection of scatter plots Illustrate, store and compare yarn bodies
  	   	<b>Reports</b>	Set of predefined role-oriented reports Machines monitoring Exceptions handling and reporting Report modification
    	    	<b>Operation</b>	Connect to older clearer generations Data storage in a database Shift calendar User management-authorization System self-diagnosis tools

### The standard from fiber to fabric

USTER is the world's leading supplier of total quality solutions from fiber to fabric. USTER® standards and precise measurement provide unparalleled advantages for producing best quality at minimum cost.

### Think quality

Our commitment to state-of-the-art technology ensures the comfort and feel of the finished product – satisfying the demands of a sophisticated market. We help our customers to benefit from our applied knowledge and experience – to think quality, think USTER.

### Broad range of products

USTER occupies a unique position in the textile industry. With our broad range of products, we have a wide reach across the textile chain that is unmatched by any other supplier in the market.

### Optimal service

Know-how transfer and instant help – we are where our customers are. A total of 200 certified service engineers worldwide grants fast and reliable technical support. Benefit from local know-how transfer in your specific markets and enjoy our service à la carte.

### USTER® STATISTICS – the textile industry standards

We set the standards for quality control in the global textile industry. With USTER we provide the benchmarks that are the basis for the trading of textile products at assured levels of quality across global markets.

### USTERIZED® – brand your products with quality

USTERIZED® stands for “defined quality assured” within the textile chain. We invite selected customers to join the USTERIZED® Member Program. More information at [www.usterized.com](http://www.usterized.com).

### USTER worldwide

With three technology centers, five regional service centers and 50 representative offices around the world, USTER is always sure of delivering only the best to its customers. USTER – committed to excellence, committed to quality. And that will never change.



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