

# USTER® QUANTUM 2

## TECHNICAL DATA

THE YARN QUALITY ASSURANCE SYSTEM



March 2004

**USTER®**  
Think quality

# THE YARN QUALITY ASSURANCE SYSTEM

<b>Functions</b>	<i>Architecture:</i>	Intelligent Measuring Head	X	
		Integrated Clearer Control Unit	X	
		Standalone Clearer Control Unit	X	
	<i>Detectors:</i>	Mass	X	
		Diameter	X	
		Reflectance for Foreign Fiber	X	
	<i>Configuration:</i>	Capacitive	X	
		Optical	X	
		Capacitive and Foreign Fiber	X	
		Optical and Foreign Fiber	X	
	<b>Modules and Options</b>	<i>Basic Features:</i>	N, S, L, T	X
			C, CC	X
			SPL (J)	X
Moiré (Spinning only)			X	
<i>Q-Data:</i>		CV	X	
		CMT	X	
		IP	X	
		PC	X	
		SPG (Spinning only)	X	
<i>Foreign Fiber:</i>		FD	X	
		FL	X	
		MF (Spinning only)	X	
		Online Foreign Fiber Classification	X	
<i>Polypropylene:</i>		PP	X	
<i>Hairiness:</i>		H	X	
<i>Expert:</i>		Central Management Information	X	
		Remote Clearer Setting	X	
		Standard Reports and Statistics	X	
		Report Editor	X	
		Article and Shift Management	X	
<i>CAY:</i>		Computer Aided Yarn Clearing	X	
		Scatter Plot: – Thick and Thin Places, Foreign Fiber	X	
		– Splices (PC21C, Orion, AC338, AC238 only)	X	
		Clearing Limit Optimization: – Semi-automatic	X	
		– Manual	X	
		Visualization of Thick Places	X	
		Simulation of Defects in Fabrics	X	
		Fabric Simulation, based on measured defects and desired construction	X	
<i>Vegetable Filter:</i>	Separation of Vegetable Faults	X		
	Counting Vegetable Faults	X		
	Scatter Plot	X		

# THE YARN QUALITY ASSURANCE SYSTEM

<b>Yarn</b>	<i>Range:</i>	C15: Nm 10 – 280	Nec 6 – 170	100 – 3.7 tex	x
		C20: Nm 5 – 125	Nec 3 – 75	200 – 8 tex	x
		O30: Nm 5 – 280	Nec 3 – 170	200 – 3.7 tex	x
	<i>Guidance:</i>	Ceramic Eyelets (3)			x

<b>Alarms</b>	<i>Textile Alarms*:</i>	N, S, L, T	x
		Moiré (MO) (Spinning only)	x
		Pearl Chain Clearing (PC)	x
		Yarn Evenness (CV)	x
		Classification (CMT)	x
		Imperfections (IP)	x
		Hairiness (H)	x
		Foreign Matter Classification (F)	x
		Multiple Foreign Fiber (MF) (Spinning only)	x
	<i>Technical Alarms</i>	x	

\* Depending on installed options

<b>Information</b>	<i>Display:</i>	Clearing Curve	x	
		Cuts	absolute / relative	x
		Q-Data	absolute / relative	x
		Alarms	textile / technical	x
		Scatter Plot		x
		Summary	all positions / parameters	x
	<i>Printer:</i>	Periodic Reports	x	
		Special Reports	x	
		Continuous Printout	x	
		Exception Reports	x	
	<i>Classification:</i>	According USTER® CLASSIMAT	x	
		According USTER® laboratory instruments	x	
	<i>Connectivity:</i>	USTER® EXPERT Systems	x	
		USTER® CAY®	x	
		USTER® LAB online	x	

<b>Installation</b>	<i>Machines:</i>	Winding or Spinning	x
	<i>OEM Winding:</i>	Murata PC21C	x
		Savio Orion	x
		Savio Espero	x
		Schlafhorst AC338	x

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<i>OEM Spinning:</i>	Rieter R20, R40	x
	ACO312, ACO360	x
	Savio FRS 3000	x
<i>Retrofits Winding:</i>	Murata PC21C, MC7-II, MC7.x	x
	Savio Orion, Espero	x
	Schlafhorst AC338, AC238, AC138 (SD tensioner)	x
	SSM PW1	x
	Motocono	x
<i>Retrofits Spinning:</i>	Schlafhorst ACO312, ACO288, ACO240, ACO117	x
<i>Speed:</i>	100 – 2000 Meters/Minute (Winding)	x
	30 – 300 Meters/Minute (Spinning)	x
<i>Spare Parts:</i>	Eyelets	x
	Cutter Blade	x
	Smart Connector	x
	Cable	x
	Measuring Head	x
	Clearer Control Unit	x
	CSE	x
	Unibackplane	x

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<b>Reliability</b>	<i>Factory Testing:</i>	Full Functional	x
	<i>Factory Calibration:</i>	Complete	x
	<i>Operation:</i>	Self-Calibrating	x

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<b>Definition</b>	<i>C:</i>	Wrong Yarn Count
	<i>CAY:</i>	Computer Aided Yarn Clearing
	<i>CC:</i>	Continuous Count Variation
	<i>CMT:</i>	Online Classification
	<i>CSE:</i>	Clearer Section Electronic (Spinning only)
	<i>CV:</i>	Yarn Evenness
	<i>FD:</i>	Foreign Matter / Dark
	<i>FL:</i>	Foreign Matter / Light
	<i>H:</i>	True Hairiness
	<i>IP:</i>	Imperfections
	<i>L:</i>	Long Thick Places
	<i>MF:</i>	Multiple Foreign Matter (Spinning only)
	<i>MO:</i>	Moiré (Spinning only)
	<i>N:</i>	Neps
	<i>OEM:</i>	Original Equipment Manufacturer
	<i>PC:</i>	Pearl Chain Clearing (Multiple Thick Places)
	<i>PP:</i>	Polypropylene Detection
	<i>S:</i>	Short Thick Places
	<i>SPG:</i>	Spectrogram (Spinning only)
	<i>SPL (J):</i>	Splice Controlling
<i>T:</i>	Thin Places	