USTER® TESTER 6-C800

The quality testing system

Technical Data

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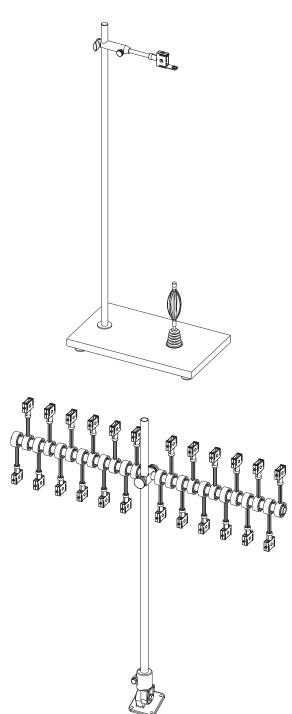




Capacitive and optical sensor technology in the USTER® *TESTER 6* set the new standard for filament yarn producers. Showing spinners the full picture, with all the options for assured quality and cost-effective production.



of the USTER® TESTER 6-C800 installation



USTER® *TESTER 6-C800* The quality testing system

Basic installation	 Test Unit Sensor CC, evenness unit Sensor Temperature and Humidity (integrated) Changer/Yarn feeder (only for USTER® <i>TESTER 6-C800/A</i>) Twister Tensioner Control unit Table set Single package carrier (only for USTER® <i>TESTER 6-C800/SA</i>) KBS, Knowledge Based System (no illustration)
Options	 Additional measuring unit Sensor OM, intermingling measuring unit
Special Accessories	Personer support (only for USTER* TESTER 6-C800/A)

USTER® *TESTER 6-C800* The quality testing system

Basic installation

Overall Installation	Functions	 Capacitive measurement of mass variations in filament yarns Automatic twist scan Analysis, evaluation and data storage of the measurement values Editor for customizing reports and settings of mill limits Smart view focusing on exceptions and outliers Filter functions for quick data selection and preparing of long-term reports Knowledge based software for the support of finding the cause of the periodical faults in the spectrogram
	Versions	 USTER® TESTER 6-C800/A (automatic version) USTER® TESTER 6-C800/SA (semi-automatic version)
	Included in the delivery	 Test unit Control unit Touchscreen Printer Application software Table set Tensioner support (automatic version) Single package carrier(semi-automatic version)

- Knowledge based system

Subsystem of the USTER® TESTER 6-C800 basic version:

Test unit (1)	Sensor CC	 Capacitive measurement of mass variations in in filament yarns Measurement range: approx. 10 dtex to 2 500 dtex (3 to 10 dtex upon request; upon approx. 6 000 dtex can be measured depending on the structure and yarn count)
	Sensor Temperature & Humidity	 Integrated sensor for measurement of temperature and humidity in the environment of the test unit Temperature: ±0.3 at a temperature of 20°C Humidity: ±3 % rH at a temperature of 20°C
	Tensioner	Material tensioner system for filament yarn
	Conveyor	 Material conveying system for filament yarn Testing speed from 20 up to 800 m/min
	Twister	Material twisting system for multi-filament yarn
	Base	Absorber for removal of tested yarn
	Tensioner support	For the measurement of yarn packages from a package carrier without yarn tensioner

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Changer/ Yarn feeder (1a)	Automatic version only	 Automatic selection of the yarn from the package changer and insertion into the measuring slot Setup of 24 feeder lines, run automatically even when a within fail Later continuation of the incomplete test
Control unit (4)	Computer software	 USTER® TESTER 6 intuitive touch application software Windows Embedded 8.1 operating system System pre-configured and locked down Simple full system update process
	Computer hardware	 Industrial computer with Intel processor 3 internal hard drives for data security and system redundancy 500 GB test data storage
	Computer accessories	 Large easy to read touch screen monitor Laser printer

Options

Sensor OM, Application intermingling range measuring unit (7)	 Measurement of interminglings per meter Results interminglings per meter and distance between interminglings approx. 50 dtex to 2 000 dtex (possible limitation according to the fiber type)
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Application Software for USTER® TESTER 6-C800

Reports	Type of report	 Standard test report of the measurement series Pre-defined table reports and graphical reports for different application Long-term reports Customized reports 	
	Display and printout of the reports	 Live view report during the measurement Analyze tool with all measured data and graphical output Smart view report for exceptions and outliers Automatic printout after the measurement 	
	Limit values	 Setting of customized limits according to standard deviation and absolute values Automatic verification of the measured values Measured values which exceed the limit will be marked with red color in the reports 	
Numerical results Sensor CS	Unevenness U	Measurement of mass unevenness by the help of the irregularity	
	Coefficient of variation CV _m	Measurement of mass unevenness by the help of the coefficient of variation	
	Coefficient of variation CV _m (L)	Measurement of mass unevenness for cut length of 1, 3, 10, 50 and 100 m	
	Maximum mass deviation	 m (min) = maximum mass reduction m (max) = maximum mass increase Possible cut length of 1, 3, 10, 50 and 100 m 	
	Relative count	Percentage count variation of the test material between single tests in a sample, with reference selectable	



Numerical results	Interminglings/m	Measurement of the interminglings per meter	
Sensor OM	Interminglings/ m min	Measurement of the minimum interminglings per meter	
	Interminglings/ m max	Measurement of the maximum interminglings per meter	
	Intermingling distance	Measurement of the interminglings distance between interminglings	
	Intermingling distance/min	Measurement of the minimum distance between interminglings	
	Intermingling distance/max	Measurement of the maximum distance between interminglings	
Statistics	Statistical values	Overall result protocol with statistical data of the test results – Mean value – Standard deviation s – Coefficient of variation CV – 95% confidence interval – Min. value – Max. value	
Graphic output of results: Sensors CS	Diagram	 Selectable ranges for x-axis and y-axis Cut length: normal, 1, 3, 10, 50, 100 m Zoom function in the single diagram Possibility of representing single diagram, multiple diagram and serial diagram 	
	Spectrogram	 220 channels Possibility of representing single spectrogram and multiple spectrogram 	
	Length variance curve LVC	 Representing the cut length from 2 cm to 600 m depending on the test length Possibility of representing single LVC and multiple LVC 	
	Histogram	 Representing of the parameter variations in percentage Possibility of representing single histogram and multiple histogram 	

Graphic output of results: Interminglings	Histogram	 Representing the distribution of interminglings and distance of interminglings Possibility of representing single histogram and multiple histogram
	Sequence diagram	 Representing the sequence of interminglings and distance of interminglings Possibility of representing single sequence diagram and multiple sequence diagram
Data protection	Back-up	 Automatic data backup to dedicated internal hard drive every 15 minutes Data export to external USB or other network devices supported
Input data, output of results, languages, units	Dialog and report languages	English, German, French, Italian, Spanish, Portuguese, Turkish, Russian, Chinese or Japanese can be selected (other languages on request)
	Possible units	 Count: mtex, tex, dtex, den Speed: m/min or yd/min
System security protection	Protection function	 System protected from viruses, network and other security threats Remote support capabilities built-in Diagnostic tools with extensive event logging Automated system recovery

Installation conditions

General ambient conditions	Room climate	The ambient conditions must be maintained in order to avoid any influences on the test material according to ISO 139 (2005). – Humidity: 65±4% – Temperature: 20±2 °C standard atmospheres
Installation	Electronical connections	Single phase with protective conductor
	Mains voltage range	100–240 VAC
	Mains frequency	50/60 Hz
	Power consumption	Maximum 1000 VA
	Compressed air connection	 Air quality: according to ISO 8573.1, class 3 Connection: Min. pressure at inlet of air filter regulator: 6 bar Max. pressure at inlet of air filter regulator: 10 bar Requirement compressed air: Standard C800 Automatic: 12 m³/h C800 Semiautomatic: 9 m³/h Min. internal diameter of the connection: 8 mm Max. length of the connection: 5 m Max. temperature difference between compressed and laboratory air: 10 °C
Gross weight of the basic function	Semi-automatic version	– Test unit: 60 kg – Furniture: 118 kg – Complete system: 208 kg
	Automatic version	– Test unit: 78 kg – Furniture: 118 kg – Complete system: 225 kg



Uninterrupted power supply (UPS)

	UPS must be provided by the customer		
	UPS Model	Tower	
	UPS Bypass Type	ON-Line	
Electrical Input	Nominal Voltage	120 VAC, 220-240 VAC	
	Voltage range 120 VAC	90–138 VAC	
	Voltage range 230 VAC	160–276 VAC	
	Frequency	50/60 Hz	
Output	Nominal Output Voltage	120 VAC, 230 VAC	
	Power Capacity	1000 VA (1 kVA)/900 W	
	Voltage regulation	+/-3 %	
Enviroment	Safety markings 120/208 V	UL, CUL, VCCI	
	Safety markings 230 V	CE, GS	
	Ambient operating temp.	Laboratory condition are acceptable	
	Relative humidity	Laboratory condition are acceptable	

Note: It is not permitted to connect a Laser Printer.



- At a vibration free location

Space required for the installation of USTER® *TESTER 6-C800/A*

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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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