

Invitation ITMA 2011 – Barcelona 22. - 29. September 2011

We are pleased to welcome you at our

Booth no. D103-D104 - Hall 6



NEW!

- ◆ Application moisture
by traversing microwave measuring heads
- ◆ Dual Structure Detector system
for Density-Structure-Transparency
- ◆ Laboratory Camera system
for Quality Control of Textiles
- ◆ Fabric temperature sensor
for fabric temperature profile with fast reaction time
- ◆ Residual moisture measurement
for open width knit goods
- ◆ ECO-OPTIDRY control
with energy consumption meter for drying machine



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New and improved Sensors and Measuring Systems

Application moisture by traversing microwave measuring heads



type MP120

The new measuring heads type AF120-Box and RF110-Box are developed for contactless online measurement of moisture application, coating and residual moisture in planiform products webs.

The measuring heads are available as a traversing system or with stationary heads with min. 60 mm distance for the fabric and opens up new applications.

Evaluation is done in the new microprocessor based electronic box type MWB, equipped with advanced features.

Dual Structure Detector System for Density-Structure-Transparency



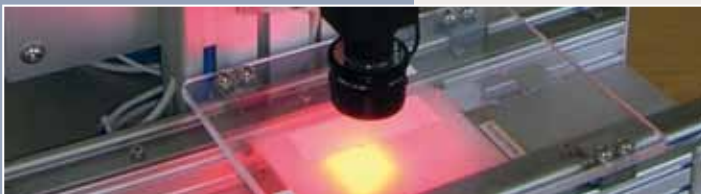
type SD1C - SD2C

The new high-resolution cameras with high-speed traversing frames allows advanced structure analysis, pick-course counting and width measurement on running fabrics.

Camera systems are available for special applications to detect reliably the distortion like Black Denim.

The Dual Structure Detector SD2C is equipped with 2 flash units and 2 cameras to measure wide differences in thread density, structure and transparency.

Laboratory Camera System for Quality Control of Textiles



type LabCam

The new stationary high-tech camera system for laboratory quality control is measuring the density of warp and weft, thread thickness and porosity of the fabrics.

A protocol with statistical functions is produced.

Density of warp in the range of 10..250 thread/cm

Thread thickness in the range of 20..500 µm

Transmittance / porosity of fabric in %

Fabric temperature sensor with fast reaction time



type TDS95-S

A new evaluation electronic box based on microprocessor technology is developed to connect 4 up to 8 pieces of TDS95 fabric temperature sensors in the same TDS-box. This new electronic is compatible to use with the present system to connect by bus system and analogue outputs. (Available from 1st quarter of 2012)

The fabric temperature sensors type TDS95 are available for ambient temperatures up to 400 °C.

Residual moisture measurement for open width knit goods



type RR-WIDE

The new measuring device type RR-WB measures the residual moisture over the full fabric width on two existing guide rollers made of stainless steel. The RR-WIDE-Box will be used at e.g. knitted fabric, or at surface sensitive fabrics like sanded, raised or high-piled fabric after stenter frame.

The measuring range at cotton is 3.5 % up to 16 %.

Applications for the textile industry



ECO-OPTIDRY Control with energy consumption meter for dryer

The NEW ECO-OPTIDRY control system is optimizing the process requirements on dryers in terms of drying- and fixation process as well exhaust air volume for highest possible savings on energy and running costs.

First time ever, an advanced function of the consumption meter is available for actual energy consumption measurement and the calculation of energy saving out of the production at your drying and stenter machine.



ECO-OPTIDRY

CIMATIC

PLEVA Weftstraighteners with fast traversing high-speed cameras

The PLEVA straightliners are equipped with the new traversing structure detector SD1C with a high-resolution digital CCD camera. This system is working with highest detection capability for all kind of fabrics and allows precise calculation of distortion analysis over the fabric width.

Automatic width adjustment after changing of fabric as well as high and fast straightening action are advantages for high quality results in production.



Straightliner

PLEVATEC

Coating process Add'nDry

The successful implementation of coating technologies is a big challenge for the textile industry to get the process controlled. PLEVA is supporting the textile finisher and carpet industry with well proven and developed measuring and control systems.

The standard coating paste is based on a defined ratio between water and solids. The water content is measured contactless, continuously and accurately by the microwave system. The following drying and curing process is controlled through fabric temperature measurement.



Add'nDry

PLEVATEC

Controlled Size pick-up for higher weaving efficiency

Uniform size pick-up on warps increases the efficiency of the sizing looms crucially. The desired degree of size pick-up is controlled by a combined pressure steering and control system varying the pressure of the slasher squeezing rollers.

The result is increasing and stabilization of weaving efficiency from 1.5 up to 4% as well as reducing the amount of applied size from 10 up to 25% savings over conventional sizing.



SizeControl

PLEVATEC

Continuous Dyeing Process for uniform dye bath distribution

The uniform dye bath distribution over the length and the width of the fabric is essential for a perfect dyeing result on continuous dyeing process Pad-Dry / Pad-Steam and CPB.

The system measures online the dye bath pick-up by microwave measurement AF310 and if required regulates the the pressure for left-right side and center on dye padder.

Supervision of predrying after infrared dryer and control of thermo fixation can be integrated as an option.



PadderControl

CIMATIC

Reliable quality Sensors, Measurements and Controls



Exhaust humidity measurement FS91



Maintenance free sensor to measure and control the exhaust air of drying process up to 600 °C for economic energy consumption.



Residual moisture measurement RR1



Highly accurate tandem roller sensors to measure and to control the residual moisture of natural fibres and synthetics.



Fabric temperature measurement TDS95



For non contact measurement of material temperature up to 400 °C. 4 to 8 sensors are fixed in the stenter according to the length of the dryer.



Pyrometer for fabric temperature traversing IR112



Contactless measurement of fabric temperature at the outlet of conveyor belt dryer to control the drying process by varying the speed of the dryer.



Oxygen measurement OS90



Maintenance free sensor for the measurement of oxygen content as a percentage by volume. With a mixture of water steam and air the saturation of the steam is measured.

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