

## BMS: BarcoVision launches new products at the show

BMS-BarcoVision will exhibit its sensors and systems for the textile industry in the weaving section, Hall E4, Booth A73. During the ITMA Asia exhibition, BarcoVision will also launch a brand new sensor for airjet weaving looms: the Kinky Filling Detector (KFD). The readers can obtain more information about the BarcoVision products and systems on [www.visionbms.com](http://www.visionbms.com).

BarcoVision will show the latest version of its Manufacturing Execution Systems (MES) for weaving, knitting, tufting and spinning, all based on wireless data collection technology. All of these systems include software modules for real time machine monitoring, production scheduling, fabric inspection, yarn inventory management and traceability. A starter package, **WeaveMaster Easy**, is now also available as a low cost entry level system with extension possibilities towards a full blown MES system.

The latest version of the Cyclops automatic on loom fabric inspection system has now also been optimized for the inspection of carbon, Kevlar and glass fabrics. During the ITMA Asia exhibition, BarcoVision also launches a brand new sensor for airjet weaving looms: the **Kinky Filling Detector (KFD)**. This detector, a combination of laser and camera technology, continuously checks the fabric for the presence of kinky fillings (loops) and can stop the loom in case of excessive occurrence of these defects within a certain length of the fabric.

For the first time in Asia, BarcoVision will also present its **EnergyMaster system** for monitoring the energy consumptions in the plant. Energy has become a very important cost element in the textile manufacturing process. Following the principle of Monitoring & Targeting (M&T), EnergyMaster maps the different energy consumptions (electricity, water, gas, compressed air, steam,...) for further analysis and optimization. The integration of these energy parameters with other MES applications, such as monitoring of the spinning, weaving and finishing operations, provides a perfect insight in the relation between energy consumption and production and allows quick identification of energy saving potentials.

### New generation Cyclops automatic on loom inspection system optimized for inspection of Carbon and Aramid fabrics

More and more, Aramid and Carbon fabrics are used as reinforcement as well as decorative material in all kind of technical applications, from aircraft, wind mills, racing cars to racing bikes and fishing rods.

Due to the very high cost of these fabrics and the extreme quality demands, even the slightest defect during weaving, turns out to be very expensive. Inspection of this type of fabrics is extremely difficult for both humans and machines due to their specular reflecting nature.

A new design of the Cyclops measuring head exploiting the reflection characteristics of these fabrics, together with dedicated software algorithms, now guarantee a 100% reliable real time on loom inspection system for these high cost fabrics, resulting in a payback of the investment of less than a year.

The Cyclops system can be used for the inspection of woven as well as directionally oriented structures (in German language: Gelege).

The pictures show an image taken from the same carbon fabric with a traditional camera system (first image) and one with the new Cyclops system (second image). The first image shows a lot of reflection caused by the brilliant tapes, which makes it very difficult to detect the defect. In the second image, all reflection is eliminated allowing a very clear visualization of the small defect.

Based on customer defined rules, the system will stop the machine in case of a severe defect or at least inform the operator in case of a concentration of defects.

All Cyclops units in the plant can be networked to the BarcoVision QualiMaster central quality management system. All detected defects are date, time and pick stamped allowing to locate the defect in the fabric roll. For each piece of fabric woven, QualiMaster stores a detailed piece map with the location of all defects, allowing a flawless quality documentation of pieces produced. ♦

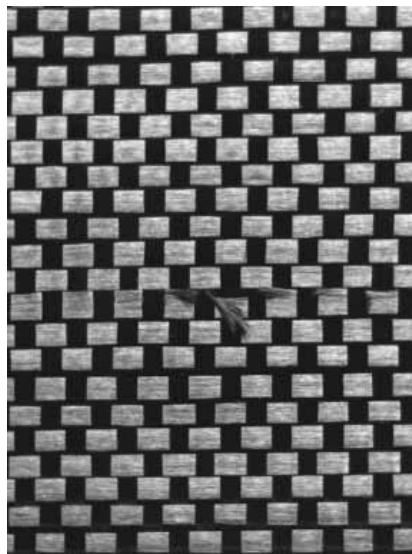


Image of carbon fabric taken with Cyclops.

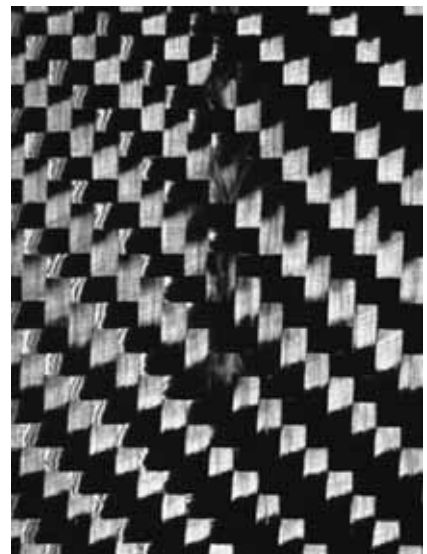


Image of a carbon fabric taken with traditional camera system.



CyclopsUTT - Automatic on loom inspection system