

# Van de Wiele innovations

## BONAS - trendsetter in jacquard weaving

BONAS, trendsetter in jacquard weaving will present the Si range in jacquard weaving technology. Thanks to its compact design, lightweight, low energy consumption and high efficiency is now available from 2,688 up to 31,104 hooks, the largest single jacquard machine available on the market.

On the Van de Wiele booth in Hall 3, Stand C01 one can discover the Si27 on an Itema R9500-340 cm with 27,200 installed hooks, weaving wall covering and bed covers.

To date, numerous Bonas Si's with over 25,000 hooks are installed in the market, weaving a wide range of applications. The performance and stability of the Si is demonstrated while weaving OPW airbags at high speed, with 11520 hooks, on a Dornier Air Jet. The double-sided drive mechanism proves its usefulness.

The Bonas Si range is used for all applications on all possible jacquard air jet, rapier and velvet looms.

Bonas' other successful Jacquard range, the Ji will also be displayed. This model is available from 1,920 up to 5,760 hooks. The Ji is manufactured in factory in Belgium as well as in Nanjing. Nanjing is producing exclusively for the Chinese market. Hundreds of Ji's are installed in several countries for numerous weaving applications.

At ITMA Asia, a Ji5 equipped with 5,000 hooks will weave furnishing fabrics on a Picanol GT Max-340 cm. A Ji2 with 2688 hooks will produce terry towels on a Rifa Air Jet.

Another 6 Ji's will be on display weaving from label over terry to furnishing fabrics.

Bonas' Ji range, already producing in many countries worldwide, uses the best jacquard technology. The synergy of the micro-selection technology and the state-of-the-art, maintenance-free drive mechanism with integrated dwell, makes the Ji the reference in jacquard double width weaving.

All the machines are equipped with the latest BONAS Ci Controller. The Linux based BONAS Ci controller and software

offer solutions for every weaving application. Use of icons on a 10.4" touch screen is user friendly, self-learning and makes operation very easy and self-evident. The Ci controller is Industry 4.0 compliant and hence ready for the future.

## VSi22 Velvet Smart Innovator

Van de Wiele will also present as a world's first the meter execution of the Velvet Smart Innovator VSi for plain and jacquard velvets. The main specs of the machine include parallel reed motion, reinforced cross members, single beams over the full width and up to 24 servo driven smart frames.

The VSi "345"-type is now available for plain velvets as well as jacquard velvets including light viscose carpets and prayer rugs.

## HCiX2 for picture weaving

The new showpiece in carpet weaving is the "HCiX2" in reed 1500 dents per meter, 8 colour frames (1500/8). This high density carpet weaving machine, available in 3 and 4 meters width, is able to weave carpets with up to 5 million points per square meter, creating high end niche products, with a handmade look. The same machine is able to weave carpets in reed 750 dents per meter, using 16 colour frames. More colours or effects can be created using a filling selector.

Instead of the traditional labor-intensive designing of woven carpet, a photo-realistic picture is processed in real time and converted to a design that fits the weaving machine. The HCiX2 is also available in the common configurations 1200/8, 1000/10 and 1000/8...

## Van de Wiele Spare Parts Service

Van de Wiele Spare Parts Service offers technical assistance to all customers for the order and delivery of original VdW parts.



High capacity Si Jacquard with 31,104 hooks.



Ji jacquard with 2688 hooks.



VSi22 Velvet Smart Innovator.

Technical assistance is provided with fast response and genuine parts are delivered within short delivery times. These original spare parts, of course assured of high quality standard, will increase efficiency of the loom and extent life time.

**Cobble: Colortec tufting machine**

A key development of Cobble is the Individual Pile Delivery (IPD) for the Colortec tufting machine, giving a more even pile surface of the tufted carpet, resulting in less yarn consumption.

The Colortec, in combination with the in-house developed software TuftLink, is able to produce carpet with multiple density and color gradients. Also, it is perfectly suitable for the production of imitation hand-tuft qualities up to 4.2

kg/m<sup>2</sup>, even with combinations of different yarns. On the Myriad tufting machine, designs of 240 m<sup>2</sup> without repeat are possible for wall-to-wall side matching. The Myriad is available up to 1/12" gauge and can be equipped with double sliding needlebar. All Cobble tufting machines are available up to 5 meters width. The fabric samples of all these machines will be presented on group stand.

**SUPERBA: Space dyeing and heat setting machinery for carpet yarn**

SUPERBA present on the Chinese market since 1992 is having a subsidiary in Shanghai (SSRO) with sales & technical Chinese people, as well as a stock of spare-parts to ensure a high level of service to local customers.

The Chinese carpet market is currently focused on the use of polyester and polyamide fibers to manufacture rugs; one of the current favorites is the tufted printed carpet for domestic market.

This kind of carpet requires a well-defined pin-point effect to get a precise printed drawing.

SUPERBA TVP3 heat-setting line offers the highest pin-point definition with their saturated steam process.

The recent improvements in SUPERBA's space-dyeing technology, like bicolor printing, or dyeing polyester yarn, are likely to generate great interest among the Chinese manufacturers looking for innovative end-products. ♦

# BMSvision focusing on Industry 4.0 and smart textile manufacturing

**BMSvision is one of the leading suppliers of Manufacturing Execution Systems (MES) for discrete manufacturing, with focus on the textiles and plastics industry. With over 40 years of experience, BMSvision offers a wide range of systems aimed at productivity, quality improvement and energy management.**

Through intelligent wireless networking of all production equipment in the mill, the BMSvision Manufacturing Execution System (MES) turns the huge amount of data originating from various production machines and processes into meaningful information for managers. The BMSvision MES suite for the textile industry includes software modules for real-time monitoring, reporting, scheduling, preventive maintenance, fabric inspection and traceability. The Management Dashboard allows the combined presentation of data from these different software modules into one single web based report showing important KPIs at a glance. As such, the manager can have all information related to efficiencies, quality and energy consumption displayed in real-time in one single screen, either on PC, tablet or smartphone.



ITMA ASIA will also see the premiere of two new BMSvision products: MyMES and Argus. **MyMES** is an App available for both Android and iOS devices and includes a cockpit and an alert module. The cockpit shows the KPIs and most important production data of the plant while the alert module highlights problem areas that need immediate attention.

With its Cyclops system, BMSvision has been a pioneer in the field of on loom quality control for weaving mills. With its

new product **Argus**, BMSvision again pushes the boundaries of automatic on loom inspection. For the first time ever, a system capable of inspecting unicolor jacquard fabrics is now available for weavers of top quality products, such as OPW airbags, mattress ticking.

BMSvision will be welcoming its customers and any mill planning its next steps into smart manufacturing on its stand C16 in the weaving hall H3. ♦