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2014

Belgian Quality Textile Machinery Technology:

ANSWERING INDUSTRY NEEDS



BELGIAN QUALITY
Textile Technology

Symatex



Belgian Textile Machinery Association

Symatex

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Agoria the federation for the technology industry

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The globalisation of Flanders' economy is one of the priorities of Flemish foreign policy. Trade missions such as this one offer an ideal opportunity to showcase our companies' technological expertise. That is why I am pleased that, as a region with a long tradition in the textile industry and as a top region for textile machinery manufacturing, Flanders is given the chance to enter the spotlight in Iran.

The Government of Flanders is committed to further encouraging growth, innovation and creativity and to reinforcing Flanders as a region that inspires entrepreneurs, investors and companies. Moreover, Flanders is a region that welcomes international opportunities and offers companies an optimal operating base for their global activities.

Therefore, Flanders wishes to support the development of the Iranian textile industry and welcomes Iranian business in Flanders.

Flanders accounts for 84% of the Belgian trade with Iran. Although trade with Iran has declined in recent years, Flanders is optimistic and recognises the potential of Iran. In 2005, direct exports to Iran amounted to EUR 309 million. They fell back to EUR 160 million in 2012 and to EUR 115 million in 2013. Iran is especially interested in Flemish machinery (34% of total exports in 2005, 26% in 2012 and 11% in 2013).

Flanders is also a buyer of Iranian products. In 2005, Flemish imports from Iran reached EUR 46 million. They peaked at EUR 97 million in 2010, but dropped to EUR 7.2 million in 2013.

This roadshow comes at an ideal time to strengthen the trade relations between Iran and Flanders. During the upcoming roadshow, top Flemish manufacturers of textile machinery will present their latest technological developments. These machines will enable the Iranian textile industry to reinforce its position in the global textile trade.

"This trade mission has been made possible thanks to the successful partnership between Agoria and FIT, the Flemish Trade and Investment Promotion Agency."

Geert Bourgeois, Minister-President of the Government of Flanders

BELGIAN MACHINERY INDUSTRY

The machinery industry is the fastest growing industrial sector measured by employment in Belgium. Since the financial crisis in 2009, it showed an annual growth rate of 4.5%. An important driver for that performance was the strong increase of investments in the machinery industry since 2009. To position its customers in the pole, the Belgian machinery industry is strongly R&D driven. It invests 7% of its added value on R&D and employs over 10% of the total Belgian research head count. The industry accelerated its research efforts on energy efficiency in the last decade and achieved an average energy consumption reduction for its products of 15%. The long term strategy directs the Belgian machinery industry towards continuous strategic and open innovation to accelerate its product development rate and provide its customers with leading edge technology. The Belgian machinery industry is the nation's 3th exporter.

BELGIAN TEXTILE MACHINERY INDUSTRY

The Belgian textile machinery industry counts 40 companies, has a turnover of 920 million euro and a headcount of 3900. Its companies are active in machinery for indoor textiles (carpet, upholstery, velvet, table – bed linen . . .), garment textiles, technical textiles and textile finishing. Belgium produces the fastest airjet weaving machines in the world. The Belgian textile machinery companies pursue technological leadership strategies. That approach is materialized in the continuous presence of textile machinery companies in the top 5 of Belgian patent applications. The industry is strongly export driven with a core of high-tech demanding EU customers for fast cross sectorial product development, in addition to our main export markets being the European Union, United States, China and India.



IRANIAN SUPPORT FOR THE ROAD SHOW

The Belgian Textile Machinery Association is very grateful for the support of the Iranian Textile Exporters Association (ITEMA), the Association of Iran Textile Industries (AITI), the Iran Textile Experts Association, the Yazd Textile Cluster, the Isfahan Chamber of Commerce and the Iranian Embassy in Belgium.

Jeroen Vits,
Manager SYMATEX
Belgian textile machinery Association

The Belgian Textile Machinery will inform the Iranian textile industry on the latest textile technology developments taking place in Belgium. Key Belgian textile technology producers will present their newest technology to decision makers and technicians from the Iranian textile industry. The Belgian industry will meet the Iranian industry in the following location.

Date	Practical
Sept 27, 2014 16.30-21.30h	Hotel Homa, Mashad 107 A, Amir Temur Street Tashkent, 100084 16.30h – 17.00h: welcome coffee 17.00h – 19.00h: company presentations 19.00h – 21.30h: mini fair, cocktail & walking dinner
Sept 28, 2014 16.30-21.30h	Hotel Safaeyieh, Yazd Timsar Fallahi Avenue, Aboozar Square, Yazd 16.30h – 17.00h: welcome coffee 17.00h – 19.00h: company presentations 19.00h – 21.30h: mini fair, cocktail & walking dinner
Sept 29, 2014 16.30-21.30h	Isfahan chamber of commerce, Isfahan Feiz Square., P.O.Box, 81656-336 Isfahan 16.30h – 17.00h: welcome coffee 17.00h – 19.00h: company presentations 19.00h – 21.30h: mini fair, cocktail & walking dinner
Sept 30, 2014 16.30-21.30h	Daneshgah Azad Islami, Kashan Kashan Raavand Road - Boulevard Ghotbe Raavandi Qiasaddin Jamshid Kashani hall. 16.30h – 17.00h: welcome coffee 17.00h – 19.00h: company presentations 19.00h – 21.30h: mini fair, cocktail & walking dinner
Oct 1, 2014 16.30-21.30h	Hotel Azadi, Tehran Chamran Hwy, 1997673764 Tehran, 16.30h – 17.00h: welcome coffee 17.00h – 19.00h: company presentations 19.00h – 21.30h: mini fair, cocktail & walking dinner
Oct 2, 2014 16.30-21.30h	Gostaresh Hotel, Tabriz Imam Khomeini st. Abresan square Tabriz 16.30h – 17.00h: welcome coffee 17.00h – 19.00h: company presentations 19.00h – 21.30h: mini fair, cocktail & walking dinner

The Belgian textile machinery industry will present the newest developments in the areas of flat and carpet/velvet weaving technology, tufting technology, jacquard technology, weft feeders, finishing machinery, digital printing, weaving accessories, textile industry automation, winding/twisting/heatsetting of coarse yarns, carpet finishing/overedging, sewing, technology. Belgian textile technology developers will show the latest technology for the production of clothing fabrics, interior textiles (upholstery, carpet ...) and technical textiles. They will interact with the Iranian textile industry to select effective technologies that answer Iranian industrial needs. Belgian technology providers will support the Iranian textile industry in the achievement of its strategic goals to reduce raw material waste, energy and water consumption and to increase capacity and competitiveness.

Participants:

Company	Name	Surname
Bonas	Van De Velde	Philippe
	Roghani	Mehrdad
Cobble	Demey	Stefaan
Gilbos	Heyvaert	Johan
	Meghrazi	Kambiz
Handsaeme Machinery	Desmet	Steven
	Salamati	Pechman Gholamreza
IRO-ROJ	Botta	Sandro
	Khosravi	Jalal
Picanol	Geldhof	Vincent
	Yadollahvand	Behrooz
	Salavati	Afshin
SPGPrints	Lossie	Sander
Tanghe Mechanical Engineering	Abs	Luc
	Ardalan	Farzad
Titan Baratto	Demey	Stefaan
Van De Wiele	Demey	Stefaan
	Roghani	Farzad
Belgian textile machinery association	Vits	Jeroen

Seminar registration

Interested in attending a seminar? Please register via www.symatex.be

WORLD LEADER OF ELECTRONIC JACQUARD MACHINES

ACTIVITIES

Bonas produces state-of-the-art electronic jacquards for all kinds of fabric applications: terry toweling, furnishing fabrics, curtain fabrics, apparel, African damask, woven sport shoes, air bags, mattress ticking, table linen, label, bed sheeting and covers, shawls, silk, ties, technical fabrics,...

Each jacquard is specifically configured for every customer.

PRODUCTS

Unique 100% electronic selection with optimized solenoids and 100% diagnostic during production for perfect selection. Low power consumption, high efficiency and easy maintenance are only some of the benefits.

- ▶ ZJ: The ZJ jacquard is compact and robust at the same time with simplified mechanism without compromising on flexibility. Designed to produce at high speed and heavy load. Capacity 768 – 2688 hooks.
- ▶ LJ: The LJ jacquard range has been especially designed to produce at high speed with heavy load and maximum flexibility with a capacity ranging from 2304 to 6144 hooks.
- ▶ Si: most compact and lightest high hook capacity jacquard range available on the market, introducing new micro selectors. From 5760 to 20736 hooks even at high speed, direct mounting on the loom possible.
- ▶ We@velink : Network systems and production management solutions for weavers.

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COBBLE - VAN DE WIELE LTD.

INNOVATION THROUGH CREATIVITY

Cobble Van de Wiele Ltd. manufactures of carpet making machinery, upgrades and spare parts globally servicing the Tufting industry with a wide range of applications suiting various market sectors/trends such as tiles, artificial grass and wall to wall to name a few.

PRODUCTS

Tufting machinery has many different product specifications which are tailored to the required end product type. The base range of the product portfolio is as follows –

ST

This series of machinery is for the production of plain cut pile and loop pile constructed carpets. The ST was designed with flexibility in mind and the ability to change machine settings quickly whilst maintaining good machine speeds.

Super Grass Tufter

The ST has also been further developed into the Super Grass Tufter which is a robust dedicated machine for producing all types of artificial turf qualities, from landscaping to high specification FIFA grade sports fields.

Pantera

This series of machinery was also manufactured for the production of plain cut pile and loop pile constructed carpets but is able to achieve much higher production outputs.

Sprint

This series of machine is a dedicated high speed unit built to produce high volumes of plain loop pile carpet. It is the fastest machine of its type in the market and is generally used to produce plain carpet for the printed sector.

The ST and Pantera series can be combined Scroll attachments which is the industry standard term for structured high and low carpet which comes in either cut/loop or loop/loop variations. The machines within this range are -

Full repeat scroll (FRS)

This machine can be supplied in two or three pile height variants and is generally used for the manufacture of tiles, bath mats and rugs. The machine is capable of creating designs that are the full width of the sewing area or repeated in panels of different designs across the width of the machine.

Low Profile Scroll (LP3)

This is a fixed repeat machine, which means that the design size is limited to the specification of the machine. This can be tailored to the requirement of the products to be produced. This machine also comes in two and three pile height variants.

Electra scroll

This is machine the more advanced of our fixed repeat machines. It is similar to the Low Profile Scroll in terms of design size however it is supplied with Servo motors and the ability to create designs with five pile heights.

Multi-roll

This machine was designed for the creation of more subtle carpet designs. The Multi-roll is a fully Servo driven machine that alters the pile heights whilst the machine is running in order to create the multiple pile height design using buried end techniques.

The latter two being dedicated servo machines based on their Engineering design.

There are two additional machines in the portfolio which have been created with design in mind, they are the world renowned Colortec and the Level Cut Loop machine (LCL).

Colortec

The Colortec is a completely cut pile machine used for creating colourful designs with up to six colours, similar to Axminster carpets utilising a servo cloth feed combined with a Servo driven needle bar with no yarn feed system.

Level Cut Loop machine (LCL)

The Level Cut Loop machine (LCL) is a machine that has been developed to produce both loop pile and cut pile in the same product to create level pile designs in the face of the carpet where there is no pile height difference between the cut pile and the loop pile.

All of our patterning machine range can be used with either Nedgraphics or Wilcom-Tecos carpet software design systems.

Cobble also manufactures a complete range of gauge parts in its dedicated gauge parts facility based in Blackburn in the UK.

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Brent Knowles

Stefaan Demey



SUPPLIER OF WINDING MACHINES FOR COARSE YARNS

ACTIVITIES

Gilbos offers extremely solid and economic solutions for the winding, assembling and air entangling of coarse yarns. It assembles its machines for the customer from its own standard components. If need to be, the R&D department will develop new, customized components. Thanks to well-developed training programs, the gilbos machines are profitable immediately upon delivery. The after-sales and spare-parts services assure that the customer can make full use of them for decades.

Countless coarse-yarn spinning mills and carpet manufacturers throughout the world use gilbos machines every day to their great satisfaction.

PRODUCTS

- ▶ **AirTwist module:** Twist-effect at speeds between 300 – 1000 m/min.
- ▶ **SmarTwist:** Revolutionary twistingsystem for carpet BCF yarns, in line with heatsetting
- ▶ **Dynajet System2:** Highly efficient, computer-controlled air entangler, entangling up to 1200 m/min, with quick style change
- ▶ **SmarTakeUp:** Take-up winder with drive and control per deck for power-Heat-Set and Superba heatsetting
- ▶ **BitWinder:** Automatic winder for residual packages
- ▶ **N PLS:** rewinder with precision winding
- ▶ **N PLS-D:** Assembly winder with precision winding
- ▶ **N IDS-D:** Assembly winder with random winding

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HANDSAEME MACHINERY is specialized in high quality finishing machinery for the carpet industry. Our range of finishing machines for carpets consists out of length cutting machines, over edging lines, gluing- and fringing machines, rollers, packing machines and internal transport systems. We can work out the simplest to the most complex automated projects. We also build peripherals for the field of wall-to-wall carpets.

Next to this, HANDSAEME MACHINERY can also work out complete tailor-made projects, on customers demand.

For more information, please have a look at our website www.handsaeme.be.

CARPET FINISHING MACHINERY

Length Cutting – Over Edging – Labeling

Packing – Width Cutting - Rolling

CONTACT

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ROJ

WORLD LEADER OF WEFT FEEDERS AND ACCESSORIES FOR THE WEAVING INDUSTRY

The IRO Group, that includes the IRO and ROJ brands, focus on the research, the development and the productions of components, which are, technologically, the most advanced for the weaving industry. We grant an effective commercial service, before and after the sale, oriented to satisfy the customer expectations.

Our products represent many years of research and development and have evolved in line with transitions within textile production, to keep pace with ever increasing demands within the industry.

We offer a comprehensive range of weft feeders and auxiliary equipment for Rapier, Projectile, Air and Water jet weaving machines.

The range comprises of products for all stages of the weft insertion process. It includes:

- ▶ Stands and creels
- ▶ Controlled bobbin take of units
- ▶ Input tensioners
- ▶ Yarn oilers
- ▶ Knot sensors
- ▶ Weft feeders for all applications
- ▶ Output tensioners
- ▶ Controlled tensioners
- ▶ Weft detectors

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PICANOL

DEVELOPER AND MANUFACTURER OF
HIGH-PERFORMANCE WEAVING MACHINES

THE PICANOL GROUP

The Picanol Group is an international, customer-oriented group that specializes in the development, production and sale of weaving machines.

Picanol supplies airjet and rapier weaving machines to weaving mills worldwide, and also offers its customers related spare parts, upgrade kits and GTP harness frames, as well as training and technical support. For more than 75 years, Picanol has played a pioneering role in the textile industry worldwide, and it is one of the current global leaders in weaving machine production. In addition to production plants in Ieper (Belgium) and Suzhou (PRC), Picanol has developed a worldwide network of own sales and service centers in order to be close to its customers, wherever their operations might be located.

Based on its philosophy of vertical integration, Picanol develops its own electronic control systems and has a state-of-the-art foundry and machining department. The knowhow that this division has built up over the years is marketed to other OEM suppliers: PsiControl develops and produces electronic control systems while Proferro supplies machined and pre-assembled cast iron parts to various industries (agricultural and earth moving equipment, HVAC, compressor manufacturers etc.)

The Picanol Group employs 2,000 people in its production facilities in Belgium, Romania and P.R. China and in its worldwide network of sales and service centers. In 2013, the Picanol Group realized a consolidated turnover of 559.9 million euros. The Picanol Group is listed on NYSE Euronext Brussels (PIC).

The Picanol Group was founded in 1936.

PICANOL WEAVING MACHINES

Picanol weaving machines are known for their high productivity and outstanding reliability in weaving the most diverse kinds of cloth at a very low cost. Picanol currently offers the following different types of weaving machines: OptiMax, OptiMax (guided positive gripper), GT-Max, GTMax-i and GTX-plus based on rapier weaving technology, and OMNIplus Summum, OMNIplus 800, OMNIplus-X, TERRYplus 800 and OMNIplus 800 TC, using airjet technology. This wide range enables every weaver to select a machine that perfectly matches the very specific requirements for the markets in which they are operating and enables them to get the most out of their market, material, time, energy and talent by offering machines that combine the highest levels of performance with the highest levels of versatility and flexibility.

OMNIPLUS SUMMUM AIRJET WEAVING MACHINE

The OMNIplus Summum is the new standard for profitable airjet weaving. In developing the OMNIplus Summum, Picanol has focused on higher machine performance, immediate fabric quality, flexibility and full modularity.

The OMNIplus 800 airjet weaving machine has set the market standard since its first appearance on the market in 2005, and it is still greatly appreciated for its high and consistent performance and robustness.

OMNIPLUS-X AIRJET WEAVING MACHINE

The OMNIplus-X has been specifically designed to achieve the best price/performance ratio with airjet weaving technology. It is based on the proven OMNIplus 800 airjet technology and helps weaving mills win in the market by offering high-quality fabrics at the lowest weaving cost.

TERRYPLUS 800 AIRJET TERRY WEAVING MACHINE

Picanol has developed the TERRYplus 800 to produce high-quality terry in a wide range of applications and at very competitive prices. Its innovative features make it the most advanced airjet terry weaving machine that is currently available.

OMNIPLUS TC 800 TIRE CORD AIRJET WEAVING MACHINE

The OMNIplus TC 800 airjet weaving machine for tire cord combines all of the powerful elements of the OMNIplus with some unique features and a whole series of new developments. This makes it the most advanced tire cord weaving machine that is currently available.

OPTIMAX RAPIER WEAVING MACHINE

The OptiMax is the most advanced rapier weaving machine on the market, giving full access to the era of digital weaving. It offers high productivity thanks to high machine speeds and low downtimes, and considerable flexibility in switching from one article to another. It enables weavers to produce a wide variety of apparel, household or technical textiles at low weaving cost. The OptiMax is available with positive and negative grippers, in guided and free flight versions and up to widths of 540 cm, making it the most versatile platform on the market.

The GT-Max rapier machine offers a solid and reliable rapier machine for customers in the higher mid segment. Guided and free flight gripper systems combining with various widths keep all possibilities open for adapting to a wide weaving range.

The GTMax-i combines the strengths of the GTMax with a higher speed, thanks to adapted drive train and rapier drives.

The GTXplus offers the weavers looking for a robust, good performing and user-friendly machine an affordable rapier machine that is capable of weaving a broad product pallet.

PICANOL

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SPGPrints is a global leading company in the textile and graphics printing market. Providing total system solutions: from screens, lacquers, inks and digital engraving to a broad range of rotary screen and digital printing systems.

Being the expert in electroforming this not only entails highly reliable rotary screen technology but also an extensive program of precision metal products.

Through continuous innovation and a powerful distribution network SPGPrints adds significant value to its customer's processes and products.

CORE ACTIVITIES

- leveraging the electroforming technology
- rotary screen printing for the textile and graphics industries
- inkjet printing for the textile and graphics industries

All from a consumables-driven market approach

CORE COMPETENCES

- development and production of screens and the printing systems required for their use in the textile and graphic printing industry.
- Supply of consumables such as inks and lacquers, services, spare parts and auxiliaries for the textile and graphic printing industry.
- production of precision metal products by means of electroforming and photo-etching.

PRODUCTS

- Rotary screen printing
- Rotary screen integration
- Rotary screens
- Inkjet printing
- Digital inks
- Direct laser engraving
- Engraving lacquers and chemicals
- Wallcovering equipment
- Coating & Finishing
- Software development
- Service
- Precision metal products

CONTACT

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MACHINEBOUW TANGHE

EXPERT IN CONFECTIONARY MACHINES FOR CARPETS AND RUGS

COMPANY

For over more than 30 years, Machinebouw Tanghe is one of the leading companies in the construction of carpet confectionary machines. Started as a local machine builder for the carpet industry in Belgium, very soon the quality and high performance of our machines and technical solutions got spread worldwide.

In the year 2005, the future of the company was ensured by a new ownership of two engineers Luc Beyne and Luc Abs.

Since then, cornerstones of the companies strategy have become: ensuring the high level of quality, exploring faster and even better solutions in confectioning and high level of service.

Offering a complete range of manual, semi automatic and full automatic machines till fully integrated full automatic lines with computer aided follow up, Machinebouw Tanghe, is the preferred partner worldwide to get the perfect, cut to size solution for each customer, when it comes to length cutting, length overedging, transversal cutting, transversal finishing (overedging, gluing, fringing or ready made fringes), rolling, packing of rugs and till manipulation into your warehouse.

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TITAN BARATTO CORNELY

SPECIALISTS IN CUSTOMIZED SOLUTIONS

The company "DE KONINCK NV" develops and produces specialised industrial sewing machines which are used in 4 different markets : Carpet finishing, Home textiles, Technical textiles and Fashion embroidery. The company is part of the Michel Van De Wiele group. Due to an interactive multidisciplinary approach the company is pursuing the development of its new product lines. It also controls the quality of each part made in its own fully automatic production facility, and finally it is selling its products and special sewing solutions worldwide, in close collaboration with its customers.

- An innovative product is the **TITAN DK 2500HLXC** to finish high quality carpets with an ultra small over-edging stitch of 4.5 mm, which resembles a stitch made by hand. The machine has all the necessary options to make a high quality stitch and is very user friendly.
- Another innovation is the **TITAN DK 2500AHC** machine. This system has been specially developed for the finishing of CAR CARPETS (or for plane and boat carpets) with complex shapes. The machine has a very compact design and allows to make in an very user friendly way the most complex shapes.
- Another innovation is the **TITAN DK 4500** machines : This an improved version of the know DK 2500 but it works 30% FASTER than the old one : It can run at speeds of 3200 spm. This increases the output of the production in the automatic lines.
- Another innovative product is the **TITAN DK 3200** fast fringer. This machine exist in left and right-hand versions and can be used in automatic lines. The production of this model is 50% higher then the traditional TITAN DK 2200 fringer.
- A double needle **TITAN DK 3700F** is sewing ready made fringes to the short side of your carpets. A special attachment will position the fringes perfectly on the edge of the carpet and sew a tape around the edge, to protect it from getting loose.
- Automation is the future of industry. The fully automatic carpet over-edging machine **TITAN DK 4600M2** is a perfect example. This large robotised unit will bring a small revolution to the finishing of all types of carpets. The system is automatically cutting the woven carpets from the roll and is presenting the cut carpet to the sewing unit. A first robot arm is taking the carpet and brings it in the sewing centre. The carpets are finished fully automatically, no programming of the dimensions is necessary. A special electromechanical development allows the machine to sew perfect SQUARE CORNERS. The threads are cut, and the last stitch is fixed. The finished carpet is taken away by an independent second robot arm and is stacked



TITAN BARATTO CORNELY, MEMBER OF THE VAN DE WIELE GROUP

MEMBER OF THE VAN DE WIELE GROUP

on a pallet. Meanwhile a new carpet is cut and the first robot arm brings the next carpet to the sewing centre. One operator can easily supervise the production of 4 automatic TITAN DK 4600M2 machines. The system is modular and can be coupled with rolling up or packaging machines. The machine can be ordered in medium size : for finishing carpets of maximum dimension of 100 X 150 cm. And in X-large size : for carpets of 200 x 300 cm. The machine has an full windows operated computer integrated. This means that this production machine can simply but put in your IT-network. And a special program allows for instant reporting of the production to the production supervisor and other departments (like shipping or sales)

- ▶ On the Home textiles market the **CORNELY 18S** machine fits in perfectly. Due to a special mechanism, this unique machine is making a ladder stitch of 2 mm in one operation, in one or double layered fabric. Previously this stitch could only be obtained in two operations, and was not possible in double layers.
- ▶ Finally in the Technical Textiles market : the new **TITAN DK 2510E** buttseamer is a machine used in the technical textile markets : It gives good results to sew very heavy very thick materials together such as filtering materials for pipeline construction or big-bags or geotextile such as ARTIFIAL GRASS for the football fields and has been delivered to several customers in Brazil for the World Cup preparation.

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INNOVATION THROUGH CREATIVITY

Van de Wiele develops, builds, assembles and installs carpet and velvet weaving machines and weaving machines for technical fabrics. Carpet and velvet consist like flat weaves of warp and weft yarns, but have an additional third dimension: the pile yarns. Thanks to this unique weaving technique, our weaving machines can weave high-grade carpets and the finest velvets since 1880, in weaving mills all over the world.

During these years, Van de Wiele has been growing constantly. Together with Bonas, IRO-ROJ, Memminger-IRO, Protechna, Titan, Cobble, Van de Wiele-extrusion and Aros electronics we share our knowledge and expertise in the broad area of textile technology.

Carpet has a broad range of applications : area rugs, wall-to-wall carpet, bath rugs, prayer rugs, ... The Van de Wiele carpet weaving machines weave for all these applications carpets from the most economical to the highest qualities up to 5 meter wide in all pile materials : polypropylene, pp heat set, wool, acrylic,

The main applications of velvet are upholstery, apparel and automotive. The Van de Wiele velvet weaving machines exist in an execution for plain or Smart Frame velvet and an executions for Jacquard velvet.

For technical fabrics, specifically designed weaving machines allow to create distance fabrics and multilayer fabrics for all kind of technical applications.

PRODUCTS

CARPET WEAVING MACHINES

The **Rug & Carpet Innovator RCi 02** is the newest generation of face-to-face carpet weaving machines. The Rug & Carpet Innovator exists in a double and triple rapier execution, respectively the RCi02 and RCi03. This high productive carpet weaving machine is able to weave a broad range of different carpet qualities in different pile materials (polypropylene, wool, acrylic,...). The RCi is equipped with full electronic control, servomotor technology including an electronic Jacquard machine, machine control with touch screen, Smart Frames,...

The Hand Look **Innovator Hci X2** is the only 3 rapier carpet weaving machine that weaves carpets with a backside like hand knotted carpets, this means without visible ground warp yarns at the back of the carpet. This high quality carpet is woven with a 3 rapier weave structure with 50% higher output than on a double rapier machine. Carpets of 1000 reed density in 10 colours or 500 reed density in up to 20 colours can be woven. Which is an equivalent of 2.000.000 and more points /m². In the near future, even higher reed densities will be reached.

The **Universal Cut Loop Innovator UCi03** is the most flexible carpet weaving machine to weave face-to-face carpets with cut pile, soft short loops, soft long loops and flat weave effects. Thanks to the unique three rapier technique, two identical carpets can be woven. A long pile version is the **Universal Cut Loop Shaggy Innovator USi03**.

To fulfil the growing fashion to long pile carpets, Van de Wiele has developed the **Shaggy Rug Innovator SRi02**. This double rapier machine can weave carpets with a pile height up to 2x70mm. Also artificial grass can be woven and becomes more and more popular.

Weaving loop pile carpets for area rugs, wall-to-wall carpet and airplane carpet can be done on the **Loop Carpet Innovator LCi01**. This technique with lancets and dummy filling has already proofed itself during many yarns. The production is at least 3 times bigger than on a conventional wire weaving machine.

The tapestry **Rug Innovator TRi02** gives the carpet weaver the complete freedom to weave any design and effect in pile and ground. The pile yarns as well as the ground yarns are controlled by servo motor driven Jacquard machines.

The **Master in Axminster MAX91** is the first Axminster weaving machine that has really been developed for weaving heavy Axminster carpets at high speed. The machine weaves carpets in pitch 7 (7 reed dents per inch) with up to 32 16 colours. The bearing free grippers insert the selected pile yarns in the woven ground fabric. The Axminster carpet has no incorporated pile yarns and can weave names and logos. Axminster carpets are used for area rugs as well as wall-to-wall carpet. With adapted set-up also handlook carpets are woven.

For Axminster and Wire weaving, Van de Wiele provides the automated Smart Creel where traditional bobbins are replaced by binsets in which the yarn is stored according to the order size. This automated system reduces labour cost, saves raw material and makes shorter production runs economically beneficial. SCC75, the automated carpet creeling solution for Smart Weavers

VAN DE WIELE BCF EXTRUSION

A new area in which Van de Wiele is investing is extrusion. Van de Wiele believes that there are two ways of adding value to the carpet: on the one hand there is the weaving and tufting technique and on the other hand the quality of the yarn. The better the yarn quality, the better the carpet. Van de Wiele believes that there is still space for improvements when it comes to BCF yarn extrusion and heavily invests in developing more efficient extrusion lines to bring innovation to the extrusion process and providing its customers with state of the art BCF extrusion lines

VELVET WEAVING MACHINES AND SMART CREEL

The market for velvet is growing. This is proven by recent orders in Italy, Morocco, Germany, Belgium, India, the Far East, ... The new generation of machines offers fully electronic control and is available in a width up to 3m.

The Velvet smart innovator / VSi22 is a double rapier weaving machine that weaves velvet according to the face-to-face weaving technique. The VSi22, weaves plain and Smart Frame designed velvet. The flexibility combined with the high speed of the VSi22 allows the velvet industry to fulfil the severe market demands of quality and delivery time.

The VSi32 is the Jacquard execution of the Velvet Smart Innovator. The VSi32 is equipped with a servomotor driven electronic Jacquard machine. Depending on the execution, the machine can weave Italian or free design velvet, light weight carpets, bus clothing, automotive, ... in different pile materials: acrylic, viscose, cotton, silk, polyester, ... and qualities.

Velvet weavers have to combine high design freedom and a diversified product portfolio with low production cost and shorter production runs. When combining the VSi32 with the Smart Creel for Velvet SCV75, those needs are met. On top of that, manpower is saved, raw material wastage is kept to a minimum, colour changes are executed during weaving and the next production run can be prepared without ever stopping the machine.

TECHNICAL FABRICS MACHINES

The percentage of technical fabrics used in the modern production world is increasing significantly with vast applications in different industrial domains: aviation, automotive, aerospace, construction, filtering... The VSi42 is a machine specifically designed for weaving technical fabrics. The possibilities are endless and the full potential of technical fabrics is far from reached. Van de Wiele is the key partner to offer and deliver the customer specific state of the art machinery for all kinds of technical applications

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Sustainable innovation leads the way to the future

ITMA, the world's most established integrated textile and garment manufacturing technologies showcase is set for its 17th presentation in Milan in 2015.

Innovation has always been an integral part of ITMA's DNA; it has been the world's leading platform for presenting the latest manufacturing technology since 1951. Sustainable innovation to drive growth for the textile and garment industry continues to be a strong focus at ITMA 2015.

ITMA is a unique showcase of the latest textile technology encompassing the whole production chain from spinning, nonwovens, weaving, knitting right through to finishing. ITMA 2015 will feature 19 key exhibit sectors, with renewed emphasis on Fibre & Yarn, Garment Making and Printing.

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BMSvision

SENSORS & SYSTEMS FOR THE TEXTILE INDUSTRY

ACTIVITIES

For over 35 years, BMS has offered products and systems for all segments of the textile industry. Be it for spinning, weaving, knitting, tufting, dyeing and finishing, BMS has applications which allow productivity and quality improvement.

The electronics and computers used in the BMS products are state-of-the-art, offering the reliability required by the textile environment. Our installation teams are familiar with textiles and service is available worldwide. Together with LOEPFE in Switzerland and SEDO-TREEPOINT in Germany, BMS belongs to the Italian SAVIO technologies group.

PRODUCTS

WEAVING

- ▶ **WeaveMaster**: real time monitoring and planning system for weaving
- ▶ **KnitMaster**: real time monitoring and planning for circular and flat knitting
- ▶ **QualiMaster**: on-loom and grey fabric inspection
- ▶ **Cyclops** : automatic on loom inspection
- ▶ **TuftMaster**: real time monitoring and planning system for tufting

SPINNING

- ▶ **BarcoProfile**: for air texturizing machines
- ▶ **OptiSpin**: per spindle monitoring system for ring spinning frames
- ▶ **OptiTwist**: per spindle twist and ends down detection for twisting
- ▶ **SpinMaster**: plant wide monitoring system for the spinning plant
- ▶ **KITMaster**: on line production and quality monitoring for Truetzschler cards and draw frames
- ▶ **OEMaster**: on line quality monitoring for OE machines

FINISHING & QUALITY CONTROL

- ▶ **FiniMaster**: real time monitoring for finishing departments
- ▶ **QualiMaster**: finished fabric inspection and optimized cutting

TRACEABILITY

EnergyMaster

Real time energy monitoring system for the complete textile plant

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EVILLO N.V. (MEMBER OF THE MATTHYS GROUP)

The Belgian Company Matthys N.V. has become one of the important European players in the field of custom tailored textile machinery. This modern company has based its success on highly motivated people, flexibility and its determination to make no compromise towards quality.

Continuous expansion and a rigorous production strategy have turned the family-run Matthys Group into a global player. The development, production and assembly of the Matthys equipment are accomplished in our own plants.

Within the Matthys Group, we realize that markets need continuous innovations, tailor-made and high-tech machines and solutions.

PRODUCT RANGE

NON-WOVEN SECTOR: END-OF-LINE MACHINES FOR NON-WOVENS, NEEDLE PUNCH, COATING LINES ETC.

- ▶ Matthys Group supplies in- and outfeed equipment for needle punch and thermo bonded (high-loft) nonwovens mainly for automotive, geotextile, floorcovering and medical industries.
- ▶ One of our strong points is the ability to automate material handling and packaging processes on a custom-built base.

New developments

- ▶ redesign of our fully automated outfeeds with integrated film packaging for geotextile
- ▶ development of an automatic "big bobbin" winder with a 5 cycle autonomy
- ▶ fully automated outfeed for insulation material for both rolls and stacks with automated packaging and manipulation.

SECTIONAL & DIRECT WARPING

Over the last couple of years, several installations for "technical fabrics" have been installed world-wide e.g. for airbags, aramides, geotextiles, conveyor belts, etc.

NEW :

- Forward beaming (to avoid friction between the yarn and the reverse rollers, very important in case of glass fibre)
- 2-in-1 machine: combination of sectional and direct warping on the same machine
- Pulling force up to 25.000 Newton, working widths up to 5700mm, yarn range up to 16.000 deniers (Polyester)

- ▶ Automation and custom-built machinery
- ▶ Inspection and packing machines: with our inspection and packing machines we can handle almost every kind of fabric: woven fabrics (upholstery, curtains, clothing), non-woven fabrics, technical fabrics and knitted fabrics.
- ▶ Transport solutions, logistics & creels
- ▶ Splicing equipment : the Evilo IRM/0-splicer produces yarn joints with highest strength and with a minimum increase of yarn volume, resulting in uninterrupted production processes
- ▶ Cutting machines
- ▶ Labelling machines
- ▶ Complete automated confection lines for carpets

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ENJOY INNOVATION AND FLEXIBILITY

OUR PRODUCTS

Our WIREFLEX loom is a special type of weaving machine made for the production of pile fabrics used for upholstery, carpets, The pile is obtained by inserting steel rods or wires in the top shed of a double shed opening.

Our WIREFLEX loom can produce cut pile, loop pile or a combination of cut and loop pile fabrics combined with different warp- and weft effects. Weaving widths from 1m40 to 3 m are available. We also welcome inquiries for highly customized looms.

TRADITION LEADS TO INNOVATION

With its roots dating back to 1945, Group Meersschaert has accumulated several decades of experience in the field of pile fabric. Our wire-Looms are playing an active role in the rapidly evolving textile industry. Today, the family-owned business employs 55 people and prospers on the results of continuous research, innovation and flexibility.

WEAVE YOUR WAY INTO MORE PROFITABILITY

The textile industry is a very competitive business. Our loom allows different output of exclusive quality fabrics for upholstery, velvet and rugs with one single loom. Our clients are able to enter into different and more profitable markets. They now run smaller productions of very exclusive fabrics for profitable niche markets.

FULL-SERVICE FLEXIBILITY

In addition to the looms, we offer many other interesting services. We dispose of a full-fledged CAD textile design department and a production unit making jacquard cards. We manufacture also harnesses and textile related wire products such as bobbin weights and creels. Finally, we do subcontracting and production of mechanical parts on our extended range of CNC machines.

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THE WORLDWIDE LEADER IN FEEDING AND CUTTING EQUIPMENT

COMPANY PROFILE

SINCE 1925

Pierret specializes in the manufacture of guillotine cutting machines as well as automatic feeders mainly dedicated to the preparation for textile and soft plastic waste recycling. They can also be used for special applications such as high precision short cut, reinforcement, etc. Pierret machines easily and accurately handle most textile and soft plastic materials as well as special fibers (glass, carbon, aramid, basalt, stainless steel, Dyneema®, Spectra®, ...) without danger of melting or fusion. They are easy to use and of robust construction, reliable, capable of providing significant outputs at low installed power, adapted to the most varying conditions and suitable for difficult-to-handle applications.

ALL UNDER ONE ROOF

This is how you can quickly describe our company. In our state-of-the-art manufacturing facility located in Belgium, we always start from basic raw materials in order to ensure full control over the entire production process. We take care of the development, the manufacture and the assembly of all our products.

IN MORE THAN 70 COUNTRIES

Thanks to local agents, test facilities, after-sales service teams as well as overseas spare parts inventories, Pierret customers are always offered a quick and suitable support. Based on our experience and know-how, we are constantly listening to our customers to innovate our products and provide optimal solutions to the market place.

PRODUCTS

AUTOMATIC FEEDERS

The patented "Robot" and "Robot Compact" loader-feeders are designed to take large bales and/or boxes as well as material in bulk form and feed the material to awaiting downstream equipment such as a cutting machine. Their operation is fully automatic, consistent, adjustable and continuous. Processed material may consist of fibers, tangled yarns, rags, carpets, plastic films, tows, non-wovens, ...

CUTTING MACHINES

Pierret offers different models of cutting machines, such as :

- Guillotine cutting machines for soft material
- Reinforced guillotine cutting machines for special fibers
- High precision guillotine cutting machine for continuous material in cable form (for flock, ...)
- High speed rotary cutting machine for continuous cables, carpet selvages and processing of bobbins



ACCESSORY EQUIPMENT

Pierret machines can be adapted to suit the user's specific requirements by adding a range of accessories and complementary machines, such as :

- Bobbin cutter
- Big bag compacting unit
- Conveyors for transporting materials between the different stages or at the end of the production line
- Automatic grinding machine
- Metal detectors

APPLICATION FIELDS

Preparation for textile waste recycling

Our machines are mainly used to cut textile waste prior to the tearing process, such as :

- Man-made fibers (PP, PES, PA, ...)
- Textile waste (old cloth, ...)
- Natural fibers (cotton, flax, wool, sisal, ...)
- Special fibers (glass, carbon, aramid, ...)

In most cases, after the tearing process, those material will be used for non-wovens or for re-spinning.

Preparation for soft plastic waste recycling

Our machines are mainly used to cut soft synthetic waste (contaminated or not) prior to the extrusion process, such as :

- Man-made fibers (PP, PES, PA, ...)
- Plastic films (PP, PE, PES, ...)

In most cases, after the extrusion process, those material will be used for re-granulating.

Special applications

Here is a non-exhaustive list of special applications :

- High precision short cut (aramid, viscose, PA, PES, ...)
- Reinforcement (glass, carbon, aramid, basalt, stainless steel, Dyneema®, Spectra®, ...)
- Volume reduction

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ITMA ASIA 2014 Hall W3 – Booth A.03



valvan
baling systems



Gualchierani
baling systems

COMPLETE RANGE OF BALING PRESSES

COMPANY

Valvan Baling Systems nv and Gualchierani Baling Systems nv are engineering companies that specialize in the design and the construction of hydraulic baling presses. Our biggest target sector is the textile industry.

More than 85% of what we produce is exported. In the last few years, projects can be found in China, India, Thailand, Japan, Russia, Turkey, Mexico, ... and all over the European Union. Our factory currently extends over 12.000 m².

Our goal has always been to offer the best solution, which is the result of careful analysis of the customers' needs and requirements. To achieve superior quality we emphasize on performance, reliability and safety.

Our dynamic team guarantees a high level technical support and a correct service for which Valvan is appreciated by its customers.

PRODUCTS

Product range:

Our product range of baling presses is most suitable for processing natural and synthetic fibers, such as polyester and polypropylene staple fiber, acetate tow, viscose fiber, acrylic tow and staple fiber, cotton, wool, flax, hemp.... Furthermore we build presses for paper, cardboard, plastics, foam, shives ... We are open to all new applications with future prospects.

To contribute to the profitability of your company, we design all kinds of peripheral equipment: tow plaiters, pneumatic fiber transport, fiber and bale weighing systems, automatic wrapping and strapping systems, bale removal systems, automatic warehousing...

In recent years, Valvan has also extended its range of products by taking over several well-known baling press constructors: LVD (fiber presses), Piferoen (horizontal presses), St.-Eloi (bump presses) and now thus also Gualchierani.

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