TEXDATA INTERNATIONAL

Magazine

Issue No. 4 Jul/Aug 2012

Business // Finance // Market // Technology

Yarn // Fiber *Spinning *Weaving * Knitting *Dyeing // Finishing // Washing // Drying * Nonwovens // Technical Textiles *Textiles // Apparel // Garment

ITMA Asia + CITME 2012 Review:

„Long may this continue!“

- **“With Autefa Solutions the customer receives Technology Made in Europe”**
  Interview with Dr. Stefan Schlichter, Managing Director Autefa Solutions
- **“China is today our main target market.”**
  Interview with Clement Woon, CEO Oerlikon Textile
- **“INTERSPARE on road to long-term success”**
  Interview with Dirk Plochow, Managing Director INTERSPARE
- **Review: 16th Denkendorf Spinning Colloquium**

Innovations & Improvements
Part 1: Spinning
Part 2: Weaving
Part 3: Knitting
Part 4: Dyeing, Drying, Finishing
Part 5: Printing & Textile Chemistry
Part 6: Nonwovens

Content

TOP STORY:

ITMA ASIA + CITME 2012 Review:

Innovations & Improvements

Part 4: Dyeing, Drying, Finishing

Competence in Technical Textiles

monforts
TechTex Division

www.monforts.com

Our Product Range

- Stretching Ranges
- Flow Through Dryers
- Belt Dryers
- High Temperature Stenters
- Vertical Dryers
- Finishing Ranges
- Universal Dryers
- TwinTherm Dryers
- Thermobonding Ranges
- Coating Lines

Suitable for

- Glas Fibre Fabrics
- Light Protection
- Tarpaulins
- Billboards
- Artificial Leather
- Floor Coverings
- Artificial Grass
- Nonwovens
- Spacers
- Membranes

SMART PROGRESS

A. Monforts Textilmaschinen GmbH & Co. KG · Germany

GERMAN Technology

BLUECOMPETENCE Alliance Member

POSSEHL

VDMA

Dear Reader,

we've had a thrilling and very eventful ITMA Asia + CITME and we would like to bring you the highlights of the event with a report and a few pictures so that you can get an idea of what it was like, or so that it brings back a few memories for those of you who were actually there.

Usually it is the really big business deals, which are in the limelight of the fair, but this time a rather special bombshell provided for a lot of discussion material in the halls. The Chinese Finishing specialist Fongs, show-piece enterprise of the Chinese group CHTC, has completely taken over the Germans at Monforts. This news, together with the fact that CHTC were in a position to book Hall 1 at the Expo centre completely for their own uses, provided for explosive chat amongst the exhibitors. CHTC is about to grow further and to attack the position of the world market leader Oerlikon. Self-confidently, the enterprise announced in their press conference that it is already number 1 in China, and that they would very much like to assume this position in future in the world market. Only last year, CHTC took over the non-wovens section of Neumag and successfully integrated under the name Autefa Solutions into the group. Autefa Managing Director Dr. Schlichter simply describes in the TexData interview what it is like to belong to CHTC, and what his aims with Autefa Solutions look like.

Other news which is certainly of special interest for spinning mills is the cooperation of the German world market leader in spinning mill preparation Truetzschler with the Japanese traditional enterprise Toyota. Together both enterprises will develop, produce and market combing machines, and their first machine, the Toyota Truetzschler TC 12, was there for all to see at the fair.

The trend continued at the ITMA Asia + CITME that the textile machine producers exhibited material uses right up to completed clothing items which can be made on their machines. Particularly original was the display from Oerlikon who have recruited assistance from the „fashion research center" at the University of Shanghai with the job to create extravagant evening dresses from three tons of material which was specially provided. Now that much application deserves its own report.

In addition we offer you an interview with the CEO at Oerlikon, Clement Woon, who reports, amongst other things, as to where he's taking Oerlikon, and an interview with INTERSPARE Managing Director Dirk Polchow who has been able to develop his company in an extraordinary manner.

In our series Innovations & Improvements, Finishing is in focus.

I wish you pleasant reading and would also be glad to hear from you. Please send your comments to: redaktion@texdata.com.

Yours sincerely
Oliver Schmidt

ITMA Asia + CITME 2012 Review:

„Long may this continue!“

by Oliver Schmidt

From the 12th to 16th of June, the most important textile machine exhibition took place in Shanghai at the Shanghai New Internationally Expo Centre (SNIEC) with the ITMA Asia + CITME 2012. The third event of its kind, 1230 exhibitors from 27 countries and regions presented their products in 12 halls on a total of 132,000 square metres of exhibition space.

Despite the difficult global economic climate, the third combined exhibition registered visitorship of around 92,000 from 94 countries and economies over five days, up 12 per cent from the 2010 show. Over twenty per cent of the visitors came from outside of China.

Of the overseas visitors, India led the pack, reflecting the rapid growth of its textile industry. Following closely were trade visitors from Japan, Indonesia, Iran and Pakistan.

Mr Stephen Combes, President of CEMATEX, said:
"We are delighted with the response. The strong turnout of visitors to the show has demonstrated that buyers in the region still remain upbeat about the potential of the Asian textile market. It also reaffirms the reputation of ITMA ASIA + CITME as the most effective business platform in China for the industry."

The fair immediately began with a fanfare. Hong Kong-listed Fong's Industries Co. Ltd. announced shortly after the start of the fair that it had acquired a 100% stake in A. Monforts Textilmaschinen GmbH & Co. KG from Germany-based L. Possehl Co. & mbH.
As expected, some visitors questioned what will now happen to Monforts, what will happen to their locations in Germany and Austria, and whether Monforts will eventually become a Chinese company and be integrated more and more into Fong's.

„We are delighted with the response."

Mr Stephen Combes, President of CEMATEX

The question as to whether one has to worry about the future of Monforts can be answered, in our opinion, with a large NO. For CHTC, the takeover was a very good opportunity to speed up their own growth strategy, and Monforts can now benefit from an investor with a background and the readiness to invest, as well as the resultant synergies which were already perceptible in the joint venture of Monfongs, profiting more than from a pure financial investor who may or may not be interested in the strong coupling of the textile markets in the current world economic situation. Monforts itself took the news very calmly and positively.

Mr. Roland Hampel, Managing Director of Monforts, said: "Today's announcement intensifies our long-standing cooperation with Fong's and opens up new opportunities for Monforts. Innovation stands at the core of our daily work and we look forward to strategically developing new business areas for our customers with our trusted and successful partners in China."

The fact that some are a little shocked by this news is clear. Some enterprises are about to recover from the big crisis regarding the dramatic sales collapse in 2009, whilst others had to exert themselves to achieve their given sales figures; the economic situation is still not quite as it should be, and at the beginning of the fair, nobody really knows where this journey is heading and whether the forecasts and desired sales figures can be realised.

Against this background it is quite strange and astonishing that the Chinese CHTC, the parent company of Fong's, demonstrated their power, renting the whole of Hall 1 for their companies. At times, the ITMA Asia + CITME became a little like a CHTC in-house exhibition for the visitors.

CHTC described the background to this remark at a press conference specifically scheduled for the purpose. The reasons behind this were: "CHTC attached great importance to ITMA ASIA & CITME 2012. With the support of the China Textile Machinery Association and the organizing committee of the exhibition, CHTC reserved Hall W1 and reached the largest-ever exhibition scale in its history, conveying the idea of "innovative and powerful, unified image and grand scale". Hall W1 may be described as the epitome of CHTC's textile machinery business. With an effective exhibition area of 7,000 square meters, the hall brought together all textile machinery manufacturers under CHTC roof to showcase their latest research findings in four business sectors--cotton spinning machinery, chemical fiber machinery, printing & dyeing & finishing machinery and nonwoven machinery. Among equipments on show were machinery production lines, as well as 68 units (sets) of single machines, 30 units (sets) of cotton spinning machines, 16 units (sets) of chemical fiber machines, 10 units (sets) of printing & dyeing & finishing machines and 12 units (sets) of nonwoven machines."

It would fill space here with reports on CHTC, its activities, companies and products and we will catch up on these in the next editions. Here is a flavour: Having bought in Fong's and Autefa Solutions, CHTC has once more clearly increased its product portfolio and is now able to offer machines in many areas along the textile production chain. The company wishes to double the 2011 sales figures (30 billion RMB = 3.86 billion Euros) by 2015 and to reach the 100 billion mark in 2020.

Another, maybe not quite as spectacular but surprising piece of news arrived promptly at the beginning of the fair, which was of great interest to spinning mills, highlighting the cooperation between spinning preparation world market leader **Truetzschler** with the Japanese traditional enterprise **Toyota**. The companies announced that they intend to produce combing machines together, resulting in the first birth of this cooperation, the Toyota Truetzschler TCO 12 combing machine, which was on show at the fair. Toyota's experience in building weaving machinery with special servo motor technology is reflected in the comber. Toyota uses individual motors to synchronously drive the combing elements on both sides. This minimises the torsion of the elements and the vibration of the machine. Trützschler's contribution to the project is a new head stock with draw box and can changer. This includes the experiences gained in building draw frames with individual drives, equipped with highly dynamic levelling. DISC MONITOR, the latest draw frame quality sensor, has also been integrated. Hermann Selker, marketing manager with Truetzschler, let know us that the TCO 12 stood in the focus of visitor interest.

Truetzschler also displayed different machines from their extensive programme, for example, foreign part separator SECUROPROP SP-FPU, the draw frame generation TD 8 which is equipped with new sensor technology, and the new Karde TC 8, specially developed for the Asian market. This machine will be built at Truetzschler Textile Machinery Shanghai, TTMS.

Selker is very content with the ITMA Asia: "The Chinese market is currently a very active one for us, even against the general trend. We have also been able to conclude a range of orders here at the fair. Truetzschler Nonvovens were able to sign an agreement with a Chinese customer for 3 chemical fibre lines producing 675 tonnes per day." On the other hand, he deplored the fact that the proportion of non-Chinese visitors was not that high. He estimated this figure for Truetzschler at a maximum of 10%.

Rieter would have also liked the ITMA Asia to be a little more international, but overall they were content. The Swiss enterprise took their chance to present a brand new product at the fair, the new E80 combing machine. This Rieter innovation meets the highest quality standards. With the E80 comber, a significantly better yarn quality is achieved with the same noil extraction rate when compared to other systems. The high yarn quality is achieved with the highest nip rate and the highest possible batt weight. Compared to Rieter's earlier comber, imperfections (IPI values) are reduced by up to 20%. The E80 produces these impressive yarn values at the same high output level as the previous model.

In addition, Rieter presented four spinning systems once again: The new J20 air jet spinning machine, the R60 rotor spinning machine, the G32 ring spinning machine, and the K45 compact spinning machine. The exhibition was rounded off with the new Karde C70.

Rieter convinced their visitors with their quality, as well as the level of discussions taking place on their stand. Their trade-fair appearance was distinguished by many interesting discussions on the 4 spinning systems and on the complete solutions offered by Rieter. Energy savings and high fiber utilization were the central focus of visitors' interest. Also the idea to offer a red armchair from the "Comfort of competence" campaign at the fair to their visitors for short-term relaxing, complete with souvenir photo, met with extensive approval.

World market leader **Oerlikon Textile** has already impressively underpinned the great importance of the Chinese market for the enterprise with the transfer of their company headquarters to Shanghai, the ITMA Asia + CITME being their first home game. Reason enough for the company to invite the press to a press conference in the new company rooms. However, the conference began with an impressive fashion show of evening dresses which had been sketched by students from the "fashion research centre" at the Donghua University of Shanghai, and produced using Oerlikon materials (see special article).

Vice president Marketing & Communications, Andrè Wissenberg, always full of vigour and ideas about the textile industry, had the idea to produce and present a complete palette of all the clothing creations made on Oerlikon machines, something which he implemented and realised in a very short time before the ITMA (read more on page 42).

The models in their very chic clothes dotted about the large Oerlikon stand could not divert the visitors' interest away from the huge number of Oerlikon machines present on the stand. Oerlikon Schlafhost presented the Autocoro 8 rotor spinning machine on a display, which, as already indicated at the ITMA in Barcelona, runs at 200,000 rpm, as well as the Autoconer X5, the Zinser 351 ImpactFX and the BD 448 ring spinning machine. **Oerlikon Saurer**, the market leader in embroidery and twisting, showed the new Volkmann CT with eco-drive concept and e-save spindles which can save up to 40 per cent of energy costs, the Volkmann Heat-SET which integrates cabling, thermofixing and winding in one process sequence, the new Allma TC2 two-for-one twisting machine and the Allma CC4 for the tyre cord cabling market with energy savings of up to 50 per cent. **Oerlikon Neumag**, with a market share of nearly 70 per cent, a leading supplier of highly advanced BCF carpet yarn machines, has sold the BCF best seller in 2011, the S+, for the first time to China to the Chinese producer Zhengzhou Yifa, who covers the complete carpet value chain. The S+ with three ends per position, is now available for the up-and-coming raw material polyester BCF. **Oerlikon Barmag**'s main spotlight has been on WINGS for FDY yarns – with the first production systems being commissioned in the first quarter of 2012.

The trade show's exhibits will also include the corresponding spinning pumps for the FDY process with WINGS. And they showed the manual version of the carbon-fiber winder WinTrax-M. The automatic version of the WinTrax carbon-fiber winder from Oerlikon Barmag has successfully completed rigorous testing under real-life conditions in the second quarter of 2012. Next testing is planned for the fourth quarter. And last but not least **Oerlikon Textile Components** showed a broad range of their innovations. Special exhibition highlights were the world's most versatile Texparts® PK 2630 SE weighting arms, the Texparts® PK 2025+ weighting arms, the Daytex® Shrinkage Belt, the Accotex® Glass Forming Apron, the Heberlein® TexJet-ATY and the Fibrevision® Unitens which is the market leading On Line Monitoring system for all makes of DTY machinery operating 500,000 thread lines world-wide.

Wissenberg appeared fairly content with the visitor numbers as well as the business they were able to conclude at the ITMA Asia, even if they would also have wished for more visitors from other Asian textile countries. China and Asia are the most important markets for the enterprise, and Oerlikon feels well set up for the future.

The e-save strategy from Oerlikon, which has been a firm component of the enterprise philosophy and product development since 2005, is a great advantage for the enterprise, because this addresses precisely the aims of the 12th Chinese FYP with regard to more sustainability and increased environmental protection.

With e-save, Oerlikon is anxious to, for example, reduce energy consumption of the machines ever further, and they are working to implement innovative technical concepts such as the recent new Autocoro 8 rotor spinning machine, which has successfully demonstrated a reduction in power consumption by at least 20%. The company is also able to meet increased Chinese wage demands using the automation solutions.

Times have not exactly been easy for the company, formerly known as **SwissTex France**, which for some time has traded under the name of **Verdol** and is now having another go as part of the French Reyes Groupe. The Verdol name is a part of company history and is still a concept for many in the textile industry, according to Gerard Alligros, Head of Marketing at Verdol. The company presented a comprehensive programme of technologies and machinery for the processing of filament yarns and offers machines in the areas of twisting, cabling und assembling. With the CP 20 for tyre cord the company has revealed a new machine with a completely new design of from the frame to the textile equipment. Alligros was very satisfied with the number of visitors and the conversations at the trade fair.

The Swiss-Italian enterprise **ITEMA** exhibited a variety of their innovations in the weaving area. For the first time at an exhibition, the individual machines were not branded with the trade name Sultex, but directly with the name ITEMA. Itema showed a very wide product portfolio with numerous configurations for the Home Textile segment.

Amongst other exhibits, top technology was on show with the ITEMA A9500 air jet machine and the ITEMA silver 501 rapier machine. Board Member-Advisor Bernard Cruycke did not really want to say whether ITEMA was content with business at the ITMA Asia + CITME. But it is probably not one of the ITEMA aims, with their high product quality and corresponding machines prices, to achieve large sales figures from Asian clothing producer sources. Weaving machines from Chinese manufacturers cost a fraction of this, and the lower quality of the weaved materials is for Asian producers who are aiming at a mass market, often still high enough.

It's a similar situation for the German enterprise of **Lindauer DORNIER** which also produces first choice products in the area of weaving machines, and they concentrated their presentation upon the production of technical textiles. The market for technical textiles is growing in Asia, and Joachim Debatin, Service Manager (ASIA) for Lindauer DORNIER, was very content with the enquiry level for the machines and the number of the visitors on the stand.

With the DORNIER system family of rapier and air jet weaving machines, the company offers all solutions required for the production of technical of textiles, as well as top quality clothing fabrics. The company showed the rapier weaving machine P1 PTS 4/S C, nominal width 220 cm, with a heavy filter fabric for the technical sector and the air-jet weaving machine A1 AWS 8/S G also with nominal width 220 cm for demanding wool weavers in the clothing sector.

Just across from the Dornier stand, the company STÄUBLI presented the rapier weaving machine P1 PTS 16/J G, nominal width190 cm, with a premium Jacquard fabric for the home textile sector.

The Belgian weaving machine manufacturer **Picanol** was very content with business at the fair, according to a statement by Marketing Manager Erwin Devlo. The number of visitors was high, as was the quality of discussions, said Devlo. Picanol felt a little put out during the fair due to an especially audacious case of copying. Not far from their own stand, visitors were able to admire an almost faithful copy of the Picanol machine. Because the machine actually had an original Picanol motor, the fair organisers initially ordered to cover it. However, the machine was seen again later at the fair without any covering. Quickly the joke made the rounds that the company can advertise how well they've achieved a precise copy. But what sounds funny actually isn't at all. China must gain control of the ongoing problem of copying and patent violation. The rumour is also starting to do the rounds that Chinese companies are beginning to copy machines made by successful Chinese companies, which will hopefully have the effect that this problem is soon addressed.

Stoll, the German market leader in the area of flat knitting machines selected the ITMA Asia to introduce a special innovation from their own worldwide research. Michael Sedlag, Director of R&D at Stoll, took time to introduce us to the new STOLL prototype CMS 530 HP-ADF with its newly developed carrier technology.

ADF stands for “autark direct feed” which means that the feeder can be individually and freely programmed. The yarn feeders are independent of sliding carriages and are individually driven and controlled by motors. The machine has 16 feeders on each side and this gives it a total of 32 independent feeders, with which the pattern can be set arbitrarily in the row and which opens up completely fresh possibilities to designers. Because of the individual drive, intarsia and patterns become possible in a small space and familiar patterns can be produced about 2 ½ times more quickly on the CMS HP ADF. Even if we are talking about a prototype at the moment, Stoll looks impressive, wherever flat knitting machines can still be developed, to offer designers and creators fresh possibilities and at the same time to achieve higher productivity. Michael Sedlag calls the machine a new dimension.

Also for Managing Director Rainer Mayer from the German circular knitting machine manufacturer **Mayer & Cie**, the fair was very successful, even if the rush on the stand which the enterprise experienced at the ITM in Istanbul was not repeated. Mayer announced that the prototype of the Spinit, a combination of a spin-and knitter, first introduced at the ITMA in Barcelona, has been developed further and will shortly take the next public steps on the way into mass production.

Shima Seiki from Japan, suppliers of flat knitting machines, has changed their whole strategy for the Chinese market, according to Masaki Karasuno, Creative Director from the Corporate Planning Division.

The enterprise has resolved to exhibit differently from the way they have done at the previous two exhibitions, exhibiting the very latest developments in their machines and, with this policy, react to the changes in the Chinese market. With this declaration, Shima Seiki has answered the increasing demand for high-quality textiles from the local Chinese market and has, like many other companies, designed the application to achieve this in the mainly high-quality children’s fashions which can be made on their flat knitting machines.

In great good humour, **Stäubli’s** Marketing Manager, Reinhard Furrer reported on a press conference specifically scheduled for the purpose concerning Stäubli’s participation in the trade fair, but was reluctant to say anything about business. The company has an excellent position on the market and ought to be very satisfied with the trade fair, based on the number of visitors to their stand and the number of conversations which ensued. Stäubli presented a huge choice of Dobbies und Cam motions, which are always the first choice, if you are looking for ‘activate warp control’, ‘activate pattern weft control’ und ‘activate electronics control’. Furthermore the company presented the Jacquard machines SX, SX V, LX 3202, DX and CX 182, the weaving preparation systems SAFIR S30, OPAL, MAGMA T12 und TOPMATIC warp-tying machine and weaving systems by Schönherr. All Stäubli Jacquard machines can now operate without cardan shaft to the weaving machine which was demonstrated on a rapier weaving machine.

Karl Mayer, the world market leader for warp knitting machines also sparkled with an imposing stand and a wealth of machines from the extensive product programme. The company from Germany presented amongst others the new TM 4 T-EL for beach towels, die HKS 3-M machine of the 3rd generation which is 15% faster than its predecessor but offers the same high flexibility, the new JL 65/1 B – a Jacquardtronic® Lace machine for lace production, the new fast, versatile Nov-O-Matic 2 with Isotens creel for warp preparation and a HKS 2-3 E tricot machine equipped with the 2nd generation of CFRP technology, offering an extraordinary high speed. In addition to the machines Karl Mayer also displayed a range of diverse applications, which can be produced on the machines.

Karl Mayer Textilmaschinenfabrik GmbH's president, Mr Fritz Mayer has been happy with the fair: "We benefited greatly from our participation at ITMA ASIA + CITME as it had a targeted audience and enabled us to feel the pulse of the industry. The vast majority of the visitors are serious buyers and we are extremely happy with the business opportunities gained from this show."

The German firm of **Groz-Beckert** has long been involved in many innovations in the fields of weaving, knitting, felting, sewing und tufting. So it is no wonder that Groz-Beckert was able once again at ITMA Asia + CITME to introduce yet more innovations.

„We benefited greatly from our participation at ITMA ASIA + CITME as it had a targeted audience and enabled us to feel the pulse of the industry."

Mr Fritz Mayer, Karl Mayer Textilmaschinenfabrik GmbH's president

On its really very unusual stand the company presented for the first time, among other things, a practical cleaning system for reeds, healds and drop wires, that perfectly complements weaving preparation. The machine which is designed and build by the German company Spaleck, a Groz-Beckert company since April 2012, optimizes the cleaning of accessories and minimizes the costs it involves. This is the world's only fully-automatic universal cleaning machine with integrated drying of reeds, healds and drop wires. Up to 25,000 healds or 45,000 drop wires for warp stop motions can be thoroughly cleaned in less than one hour. Despite this, the machine is impressively compact in size. Another highlight of Groz-Beckert has been a new cylinder with 8472 needles and a gauge of E90 for circular knitting machines which has been developed together with Italian Santoni. At times Ms Birte Kleefisch, Corporate Communications Manager at Groz-Beckert, would have liked even more visitors to the spacious stand, but overall, she was quite satisfied with the conversations held and business conducted at the trade fair.

The finishing-specialist, **Brückner** from Germany reported a wealth of visitors, worthwhile conversations and a high demand for Brückner products on all the days of the trade fair. "If quality products are being ordered in the finishing industry, we are basically part of the scene," said Brückner's Sales Director, Gerd Kolmer. "Of course we do not receive every order and we do not know precisely how much demand there is in the low-cost segments, which we have not been part of since the start. However, overall we have experienced a good demand for our products in Asia, both in the technical textile field, but also increasingly in the traditional markets. It is always difficult to see into the crystal ball, but I am of the opinion that the traditional markets will also be attractive for Brückner, since the demand for quality textiles will increase in China, especially because of the growing local market. And with our energy-efficient products we are particularly well-placed to satisfy the targets of the current FYP."

The german **Monforts** exhibited its MXL® (moist cross linking) process in association with the new Thermex 8000 continuous dyeing unit. The process, developed by Ciba Speciality Chemicals together with Monforts, allows non – iron and laundry - fresh properties to be achieved on cotton materials with the shortest treatment times. The new process ensures processing times are reduced from more than 20 hours to just 3 minutes. It also offers greater flexibility and high process safety than conventional systems.

In addition, on their stand Monforts gave advice on the latest developments, explained how individual finishing processes could be further improved and displayed a range of applications for technical textiles. Mr. Jürgen Hanel, Business Development Manager for Technical Textiles, who has recently moved from Coatema Coating Machinery to Monforts, was very satisfied with the demand for Montforts products in his segment and wants to expand further the high competence of Montforts in this strongly growing field. With the investments from CHTC in R&D he thinks that Montforts is on the path to a good future here.

Fong's from Hong Kong, part of the **CHTC Group**, likewise presented many machines from their comprehensive programme from the equipment field. Among the machines exhibited were Fong's National MIDITEC3-2T high temperature dyeing machine, the Monforts Fong's MONTEX 6500 stenter, , the THEN-AIRFLOW SYN 500 G2, the GOLLER UNIVERSA conveyor dwelling compartment with SINTENSA TANDEM washing unit and the XORELLA XO-Series energy saving vacuum conditioning and heat setting machines.

On the CHTC press conference Mr. Alex Wan, CEO of Fong's Industries Co. Ltd. presented the "One-stop GREEN Innovation" motto and updated the New Zhongshan factory project as well as Monforts Fong's factory moved and commenced in Zhongshan on June. During the exhibition period, Fong's Industries subsiduries, namely, Fong's National, THEN and Monforts Fong's have been awarded with "The Star of China Textile Machinery" by the China Textile Information Center under the guidance of China National Textile and Apparel Council. Another highlight has been the visit of the honored guests Mr. Wang Tian Kai, Official of China National Textile & Apparel Council and Mr. Zhang Jie, Chairman of CHTC on the Fong's booth. As business went also well, Fong's has been once again very comfortable with their participation at ITMA Assia + CITME.
Similarly, the German **INTERSPARE** company is very satisfied with the trade fair. Managing Director, Dirk Polchow reported a high demand for new systems. More importantly, INTERSPARE succeeded in securing a special business collaboration. More on this in the TexData interview with Dirk Polchow.

Klaus Baumann, Sales Division Manager with the German **Erhardt & Leimer** Company, reported that the textile division of the company continues to achieve good sales figures in Asia and particularly in China and that he is also very satisfied with the current response to the trade fair. Baumann believes that the success of his company lies in the quality of the products and in the good customer relations, which the company has built up. At the Erhardt+Leimer stand visitors were mainly attracted by two products, the new actuator KR 60 and the web cutting system ELCUT BTA 80.

The Spanish equipment firm, **Icomatex** concentrated at the trade fair on their solutions for the production of technical textiles and displayed, among other items, a coating machine of the IC-COAT Series. ICOMATEX coating lines cover the most areas of coating processes. Their air-cylinder, doctor blade coating machine, is working with high precision coating on textile fabrics up to a maximum working width of 6'000mm. They do also produce the ICOSCREEN rotary coating unit for special fine coats, laminated fabrics, interlinings etc. ICOMATEX are also manufacturing lines for the artificial grass industry. The Area Manager, Fred Corriere was very satisfied with the decision on the coating machine and with the number of visitors to his stand and the Commercial Director, David Valmana reported good business and signed order placements.

„Saving Costs – Conserving Resources“ was the topic of **Mahlo** at the ITMA Asia. For 66 years now Mahlo has been selling increased efficiency for production processes. In Shanghai the company once more emphasised its role as global market leader of control systems for the textile industry without being limited to it. „We were surprised by the large number of visitors. Both the volume and the quality of the interested parties and customers exceeded our expectations.” said Rainer Mestermann, managing director of the company. Mahlo displayed an extensive range of innovative products, including the straightening and process control system ORTHOPAC XRVMC-12 and the pattern control system Patcontrol PCS-12 in the straightening segment, the automatic defect inspection Webscan WIS-12 in the product inspection segment, the cylinder dryer control Atmoset SMT-12 in the process control segment and from their range of sensors the X-ray transmission sensor Gravimat FMXT, the spectrometer Infrascope NIR and the air permeability measurement Airpro APM.

Under the slogan, ‘Go green with Thies’, the German **Thies Textilmaschinen** Company presented, among other things, their new star product the iMaster H2O. The iMaster H2O features a completely new design of rope dyeing for the processing of knit and woven goods. By installing the transport winch inside the kier, cotton, synthetic fibres and their blends, including articles with a high elastane content are processed with significantly reduced elongation, resulting in fabrics of improved stability and surface appearance while offering increased flexibility in the processing of a wide range of products.

An additional focus has been on the significant reduction of water consumption together with a decrease in the consumption of chemicals, dyestuff and energy. In practise it is possible using conventional techniques, without the need for air technology, to work comfortably with a liquor ratio of 1:4. According to Ms Verena Thies, Managing Director of Thies Textilmaschinen, the concept, of developing a dyeing machine of the highest quality, which also protects natural resources, has proved to be a complete success, even for the Chinese market. She reported that the Chinese and South Asia customers had shown very great interest in the new iMaster H2O. No wonder that Ms Thies was also very satisfied with ITMA Asia + CITME Thies has obtained orders from customers from China and South Asia.

Stork Prints from Netherlands participated at the ITMA Asia with the focus on three main items: Digital Textile Printing, the new RandomScreen® and the direct laser exposing machine SmartLEX. The company was very happy to see that an increasing amount of visitors from all South-East Asia countries had found their way to Shanghai in China. Many visitors from countries like India, Pakistan, Bangladesh, Indonesia, Thailand and Vietnam visited the show and the Stork Prints stand. They all showed great interest in what the company had to offer. During the show a joint venture between Stork Prints and Shandong Tongda Nickel Screens was announced. The joint venture involves the manufacturing and distribution of first-class rotary nickel screens and consolidates a strong position in the growing textile rotary screen printing market in China for both companies.

Mr. Dick Joustra, CEO of Stork Prints states: "Throughout the textile industry, the performance of our rotary screens enables textile printers to improve their quality. The collaboration with Tongda is a key step for achieving our plans in China and other developing markets in Asia."

AUTEFA Solutions, newly restructured last year, exhibited for the first time as part of the CHTC Group and presented, among other items, the Stylus DZ needle loom. For example it is equipped with the innovative Variliptic drive system. Autefa has strong skills in turn-key automation systems. You can find out more about Autefa and their participation in the trade fair in the TexData interview with the Managing Director, Dr. Stefan Schlichter (read more on page 25).

Dilo, the non-wovens market leader from Germany, which had introduced a complete nonwoven production line in working mode at ITMA Barcelona, demonstrated the advantages of its own machines at the trade fair by means of large charts and a relatively small selection of machines. Dilo innovations are the new Alphamix as well as the suction, filtration and sound insulation techniques from DiloTemafa, the MultiFeed and MultiCard from DiloSpinnbau, the Webguide of the DiloLayer as well as the "Isomation Process" for a more regular fibre mass flow and a more homogeneous final product. Isomation is an integral concept to save fibres.

Several large textile machine associations such as VDMA from Germany, ACIMIT from Italy and UCMTF from France likewise used ITMA Asia to make known their innovations or to support their member companies.

VDMA introduced its "blue competence" initiative towards more sustainability for the first time in Asia. Visitors to ITMA ASIA + CITME 2012 highly appreciated the commitment of the German textile machinery industry on the issue of sustainability. The success stories from German companies themed "Sustainability meets profit" showed textile manufacturers exactly how to realise substantial raw material and energy savings with the help of German technology thus fulfilling the obligations from governments, brands, retailers and consumers.

ACIMIT from Italy supported its members with large Italy brandings on the exhibition stands and right at the entrance to the exhibition site they used these brandings to advertise Italian brands. The central focus of the ACIMIT activities was its "green label", a seal of approval awarded by the association, which is affixed to machines, which work in a particularly energy-efficient manner. ACIMIT promulgates the certification of the green label. The association has worked with an international certification body, RINA, defining the rules which would guarantee control of the values declared on the green label. The companies participating in this initiative are required to follow an implementation regulation and an operating instruction on measuring the energy/environmental performance parameters.

Both the implementation regulation and the operating instruction on measurements were validated by RINA. Of the 34 companies which participate in the project, 6 passed the RINA inspection audit this year in May: FLAINOX, ITEMA, JAEGGLI, REGGIANI, SANTONI and TONELLO.

“In the industrial machinery sector”, explained Sandro Salmoiraghi, ACIMIT President, “there are other brands which claim to attribute the sustainability license to those who wear their badge. In all actuality,” continues Salmoiraghi, “these are always brands which are self-referential and exclusively of a promotional nature. On the other hand”, the ACIMIT president concludes, “with the green label certification Italian companies are able to provide potential customers with performance information verified by an international certification body”.

The French association, **UCMTF** has organised a press conference for its members, followed by a networking session. The UCMTF president and CEO of nsc, Mr. Bruno Amelie, was comfortable with the situation and business of French textile machinery on the fair. The companies nsc, SUPERBA, verdol and Stäubli told us that business went well because of a unique position and strong relationships to Chinese customers.

Conclusion

Even if it is a bit early for a final appraisal regarding the success of the fair, the statements from the exhibitors already reveal trends regarding the most important achievement spectrum of textile machines in Asia: The structural changes in China seem to have an extremely varied tempo in the individual sections of the textile manufacturing sector, and up to now, the processes of Spinning and the Finishing seem to be experiencing a serious upgrade. This is somewhat astonishing because, with extra effort, the aims of the 12th FYP with regard to sustainability, lower resource consumption and increased environmental protection can be achieved in these segments.

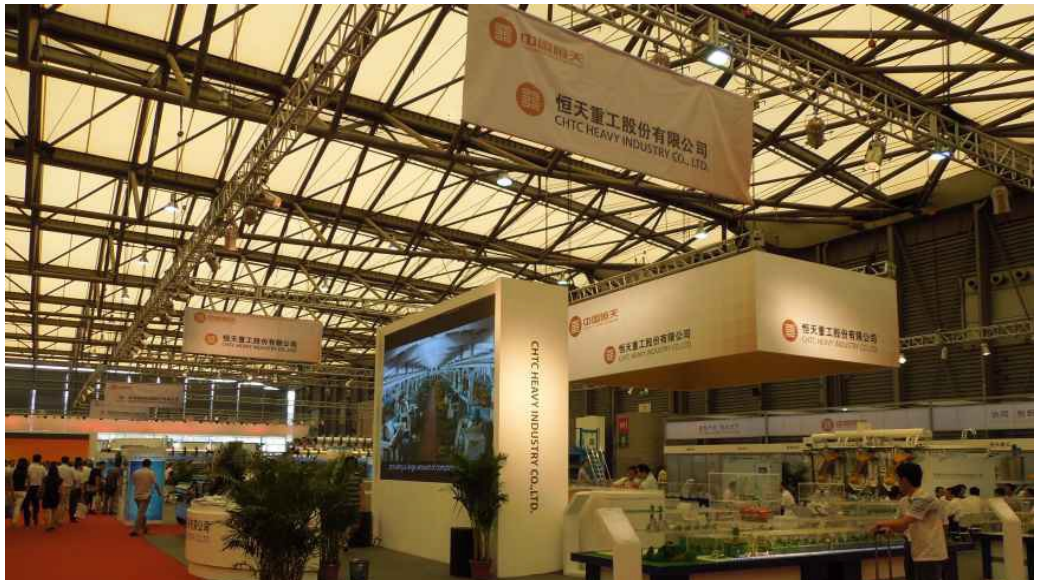
However, even if some industrial segments were happier with the most important fair in Asia than others, the overall result has shown that the ITMA Asia + CITME have shown once again that Asia and China are generally high investing in new technologies and production expansion. Against the background of the Euro-crisis in Europe, the elections in America, and the reduction in Chinese growth, the exhibitors’ satisfaction with the textile industry, and with it also for the textile machine industry, shows that things are generally moving once again in the right direction. And, maybe the real economy has learnt that calmness compared with the constant menace scenarios of the world economy is the right way forward.

Some impressions from the ITMA ASIA + CITME 2012 in Shanghai

ITMA Asia took place from 12th to 16th June 2012 in Shanghai at Shanghai NEW INTERNATIONAL EXPO CENTRE.

There were a lot of visitors from China and South Asia. At at the second day it seemd to be a machinery rush.

12 exhibition halls of the former expo area (W1 - W5 and E1 - E7) are used for ITMA ASIA + CITME.



Hall W1 was completely booked by CHTC. The group wants to become the number one in sales in China first and then conquer the world.

Impressions ITMA Asia + CITME 2012

Truetzschler from Germany is very comfortable with the Chineses market and Head of Marketing Mr. Selker told us, that Truetzschler closed some deals directly on the fair.

The cooperation project of Truetzschler and Toyota which was made public on the first day of ITMA Asia + CITME found a lot of attention. The new TCO 12 combing machine was a real attraction.

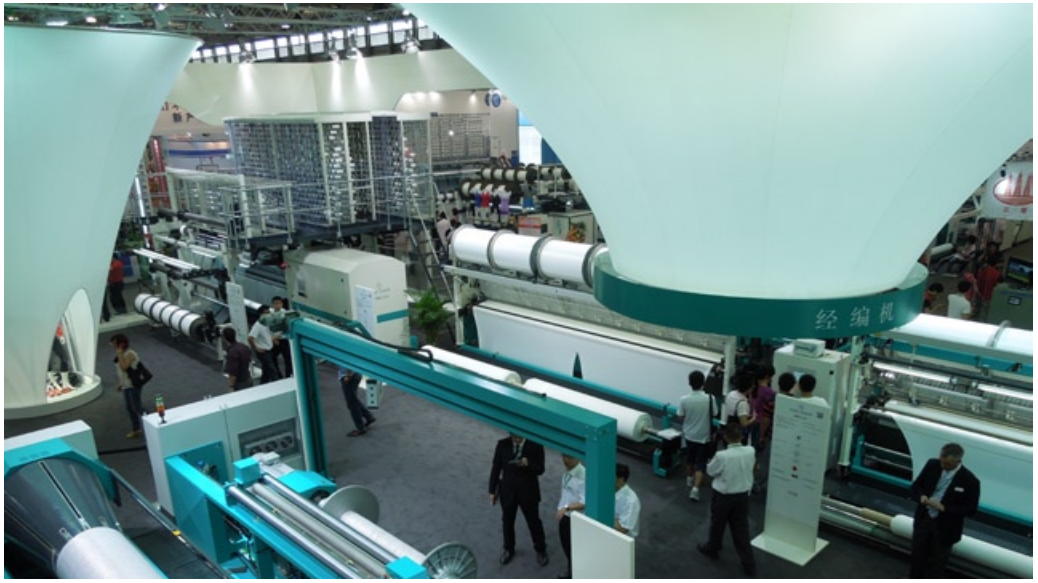
The Rieter booth with the presentation of all four spinning systems with for example the G 32 ring spinning machine and R60 rotor spinning machine was another show attraction. Great interest was also shown in the E 80 comber.

Highlights of the fair were all the innovations of the Oerlikon companies like the Schlafhorst Autocoro 8 with its 200.000 rpm.

Savio from Italy with their big new logo and many visitors on the booth.

Dornier presents a range of machines for producing technical textiles, which are more and more important for the company.

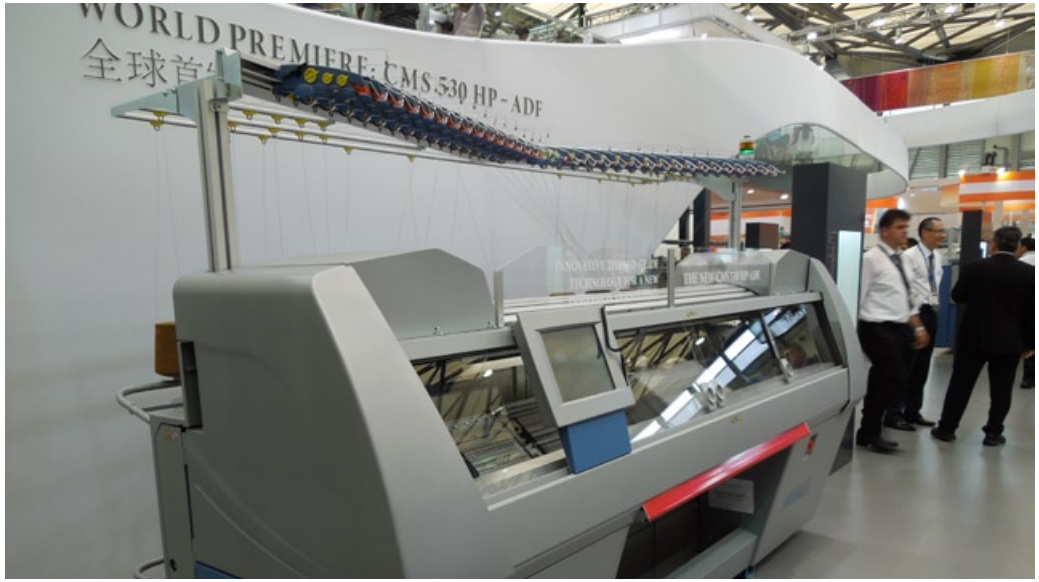
Picanol from Belgium offers a wide range of weaving machines and demonstrates some of them on their booth in working mode.



German Karl Mayer demonstrates its technological leadership in warp knitting with six machines on a huge stand.

Impressions ITMA Asia + CITME 2012

Stäubli marketing manager Mr. Reinhard Furrrer (middle) explained what Stäubli stands for: activate warp control, activate pattern weft control and activate electronics control.

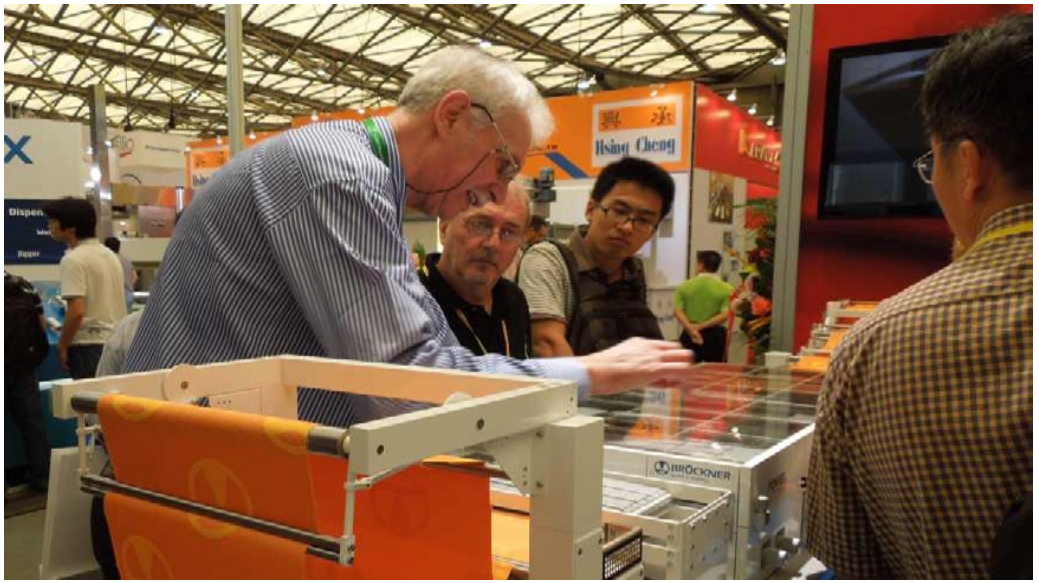


The new prototype CMS 530 HP-ADF offered by flat knitting market leader Stoll with the new developed carrier technology offers a wide range of new patterns and designs, told us STOLL Director R&D Michael Sedlag.

Managing Director Mr. Rainer Mayer from Mayer & Cie let us know that ITMA Asia went very well for the German circular knitting specialist.

Needle specialist Groz-Beckert from Germany persuades all visitors with an amazing stand concept and many technical innovations, i.e. a new cylinder with 8472 needles and a gauge of E90 for circular knitting machine.

Monforts presented themselves as best prepared for the growing market of technical textiles. With the takeover by Fong's the investments in R&D will rise.



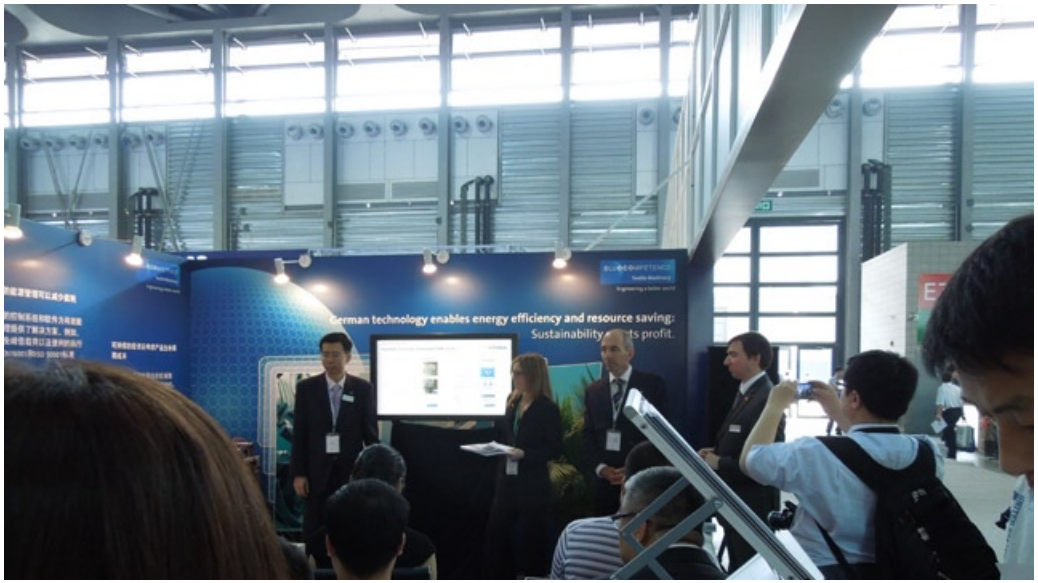
Brückner with its high competence, the outstanding quality and innovative solutions is always in the lead, when textile producers are looking for premium quality, said Brückner Sales Director Gerd Kolmer.

INTERSPARE from Germany announced high interest in Krantz and Artos machines and made a mayor deal with Stentex Equipment.

Autefa Solutions delivers i.a. needle looms, carding machines and cross lappers for the nonwovens industry and presented themselves as a new company and as a part of Chinese CHTC for the first time in Asia.

Impressions ITMA Asia + CITME 2012

Market leader for nonwovens Dilo informed their Asian customers about their high quality machines.



The German textile manufacturer association VDMA introduced their blue competence initiative to the Asian journalists on a special press conference.

After a long and exhausting fair it feeled good to settle back and relax: Rieter‘s comfort of competence.

More Impressions on www.texdata.com
and on the TexData iPad/iPhone App.

Interview with *Dr. Stefan Schlichter*

MANAGING DIRECTOR
AUTEFA SOLUTIONS

(by Oliver Schmidt)

„With Autefa Solutions the customer receives Technology Made in Europe“

How satisfied are you with your first appearance at ITMA Asia as the new AUTEFA Solutions Group and as part of CHTC?

Dr. Schlichter: We were very satisfied with our appearance at ITMA Asia and with the result. We had lots of interesting discussions with customers who know us. But it's also important to make new customer contacts at a trade fair, and we were satisfied in this respect too. Autefa Solutions was integrated into CHTC as an independent company. We were able to display our Stylus needle loom in a very prominent position, where it received a lot of attention. It was particularly important for us that the Stylus needle loom was presented as a working machine. The precision and the best mechanical features of a needle loom are so impressive, especially as the machine was demonstrated in working at full capacity, despite the trade fair conditions.

We worked in a team with our colleagues at CHTC and as a result, the entire range from the Textile Machinery division was displayed in a hall with an exhibition space of 7000m².

There were a few rumours at the ITMA Asia about the new AUTEFA Solutions Group. There has been speculation about shifting production to China, reducing capacities, loss of quality and surrendering independence. How would you respond to these rumours?

Dr. Schlichter: Autefa Solutions has been a member of the CHTC Group since September 2011. This has the following advantages: Autefa Solutions is now better represented, both internationally and in the important Chinese market and we can continue to develop and produce new, innovative products. CHTC has invested heavily, which shows the trust that CHTC has placed in Autefa Solutions.
CHTC is an internationally competitive enterprise, with a global market presence. There are a number of large European machine manufacturers with their own production sites in China that supply the Chinese market. Now CHTC has, among others, Autefa Solutions production sites in Europe and can act globally.

Our task is to coordinate our three sites in Friedberg, Linz and Biella perfectly and to take advantage of synergies to develop and build economical, efficient and customer-oriented machines. It's a huge task to manufacture such diverse machinery such as bale presses, carding machines for manufacturing wool yarns, needle looms, carding machines and cross lappers.

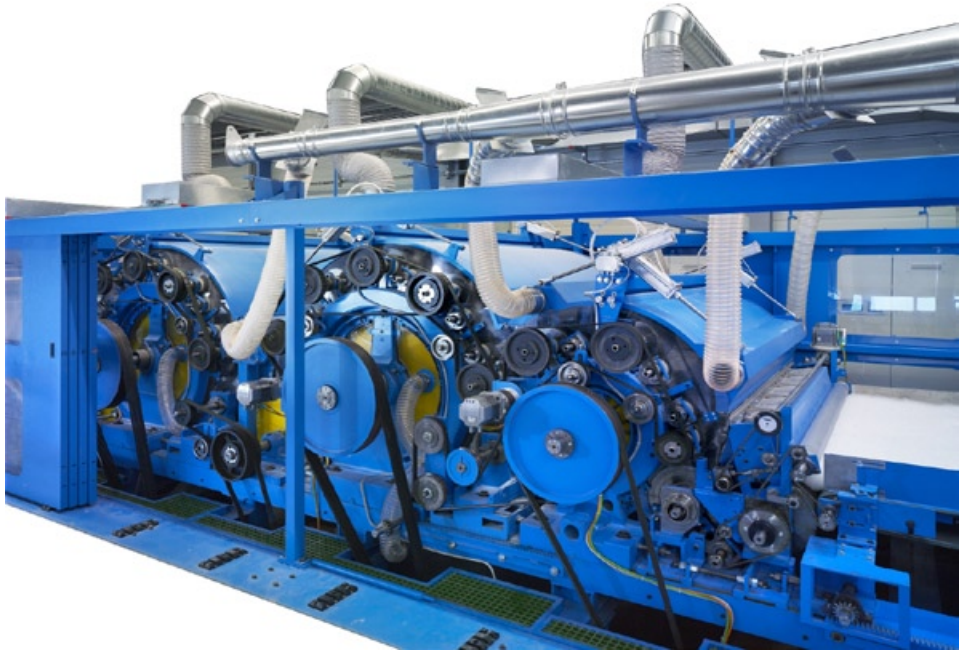
However, as plant manufacturers for special-purpose machines we are highly specialised in producing also small quantities and now with access to the large manufacturing potential of CHTC we can optimise this still further.
Over the past 9 months we have increased our staff by 10%, we are entirely independent, we need to work economically in order to produce and sell successfully machines and generate profit.

So, in short how would you describe the new AUTEFA Solutions?

Dr. Schlichter: Autefa Solutions unites the traditional companies Fehrer, F.O.R., Octir and Autefa under one roof. We work closely with our customers, who mainly demand new technologies, so that we can continue our success on the marketplace in the future. Autefa Solutions is highly innovative. For example, together with our customer we have developed and built the first industrial plant for carbon recycling for the automotive industry. We build extremely successful bale presses that play a key role in fibre manufacturing plants. Many of our staff at the Friedberg, Linz and Biella sites have had decades of experience in their line of work, and they pass on their knowledge to new, young employees. We do have skill and experience and that is very important in our business.

What exactly has changed for your customers as a result of the integration into CHTC? Which feedback have you received from them and which concerns do they have?

Dr. Schlichter: Little has changed for our customers. Fehrer, F.O.R., Octir and Autefa were reliable partners in the past and Autefa Solutions will continue to be the same, both now and in the future. As part of CHTC, we have a large corporation behind us that also provides us with enormous financial security.



Carding machine Masterfelt

Many of our major customers have production sites in China. So our customers ensure their access to the Chinese market. Our customers are located across the globe and they welcome the fact that we have strengthened our global position by becoming part of CHTC.

Is there not a risk that CHTC does indeed value the expertise of the companies and is interested in the brands, but that the German or European production sites are, shall we say, of secondary importance to them? Why should that be different with Autefa Solutions?

Dr. Schlichter: The Autefa Solutions production sites in Friedberg and Biella have been modernised and extended, which is a clear signal.

I'll now quote from an article from [German national daily newspaper] "Die Welt" from 14/06/2012 :

- Chinese companies buy "German companies that are technological leaders in their market".
- Chinese companies want to "increase their ability to compete on the international market by buying companies like these."
- "This is the start of a long-term trend, not just a passing phase."

These three quotes precisely reflect the intentions of CHTC with regard to Autefa Solutions. We are working together with CHTC as a team, using synergies and resources where they are useful and where it will reap benefits for both us and our customers. In this way, we are securing the long-term success of our company.

Autefa Solutions Cross lapper

Where do you perhaps see advantages with CHTC as a holding company? What makes this solution more attractive for you than, for example, a straight financial investor?

Dr. Schlichter: Textile makers live in their own specialist world, a world shaped by its products – fibres, materials, yarns, textiles and the wide spectrum of nonwovens. It is easier to discuss these things with textile experts. They recognise good technology, they know the market.
A financial investor will only ever see the mere figures. CHTC is a strategic partner, we have the same aims, we speak the same language – figuratively speaking. Our products fit together and we can provide complete solutions for all textile processes in our sector. Those are advantages.

Is it not possible that the high production costs in Germany, Austria and Italy could be your undoing, if for example the controllers responsible within CHTC criticised you because production of the same parts in China would be considerably cheaper? Could it not be the case in the future that CHTC dictate how you should manufacture your machines?

Dr. Schlichter: With Autefa Solutions the customer receives "Technology Made in Europe". Like all other textile machine manufacturers, Autefa Solutions is aware of optimising production costs. Our production sites are not jeopardized. We do research and development in Friedberg, Linz and Biella. Our designers work closely with our production teams. Our machines achieve top results – the quality of the products that customers can produce with our machines is excellent. Nothing is going to change in this respect and that is a real strength, which will ensure a good price-performance ratio. As a result, our sites are going to be expanded. At the same time, Autefa Solutions benefits from belonging to CHTC. Autefa Solutions now has access to production sites in China, which will keep our production costs attractive in the long term too. Having access to the Chinese market results in volume advantages, which also helps to maintain the competitiveness of our products. On the whole, in our view, it is a very convincing overall concept.

CHTC has set its sights firstly on becoming number 1 in China in terms of sales figures, and then secondly on taking greater strides towards becoming world market leader. What's your view on the direction it is taking and how do you see the role of Autefa Solutions? Which expectations does CHTC have of you and Autefa Solutions in terms of turnover, growth, innovation and market share?

Dr. Schlichter: CHTC is already number 1 in China and would like to continue to grow. They can already cover all areas of the nonwoven sector, such as spunbond, melt-blown, spun-lace and needling equipment.
I can't speak for Mr Jie Zhang, Chairman of CHTC, but I know CHTC wants healthy growth and a successful cooperation. We can, and should learn from each other. Discussions between our staff and our Chinese colleagues are part of our daily business. In China we already offer combined complete lines.

We will continue to expand our market shares because we are innovative. Our Stylus needle loom uses the new Variliptic drive system. This enables a high speed and better product quality. The cross lapper is technologically outstanding and our carding machine is very effective. The Airlay card is on the rise, particularly in China, in the automotive and insulation sector and it enables the use of natural raw materials as part of attractive compact plant concepts to be increased.
We are expected to constantly come up with new ideas and innovations. This is a requirement of CHTC and of course of our customers too.

From 2005 – 2011 Autefa Friedberg belonged to Oerlikon Neumag. When it was sold, according to Neumag, the carding business could not meet the expected sales figures. Why will this be different in CHTC and how high is the pressure?

Dr. Schlichter: Where the essential framework conditions for fulfilling anticipated sales figures are lacking, there is often no chance of a satisfactory outcome when competitive pressure is high. CHTC expects innovative concepts and ideas from us about how our concepts can be successfully implemented. However, with a view to the long term and a strong financial position, they have laid the foundations for healthy growth, and I am proud to say that after just nine months in the Group we are already reaching our targets. We know that we have to work successfully and profitably, and all our efforts pursue this aim.

CHTC is investing heavily in R&D and in improving products. Does that also affect Autefa Solutions and which innovations can be expected from Autefa Solutions before the next ITMA Milan? Which market segments and applications will be your main point of focus over the next few years?

Dr. Schlichter: It's true that CHTC is investing heavily in Autefa Solutions. We are continually developing our products for the global premium segment with high-performance machines, meaning we can continue to equip our customers to meet the highest of productivity and quality requirements also in the future.
The focus of our general, current development work is put on applications for the geotextiles sector, carbon production, composites and Airlay card.

When we will meet you in Milan, will you still be there as "Autefa Solutions" or might you be there as "Zhengzhou Hi-Tech Non-woven Technology Europe"?

Dr. Schlichter: Autefa Solutions will remain Autefa Solutions. We respect the traditional companies Autefa, Fehrer, F.O.R. and Octir that provide the basis for our success.

And we are not only active in the nonwoven business; in Friedberg we manufacture bale presses for large synthetic fibre plants. With Octir we provide machines for wool processing.

If customers visit Autefa Solutions at the ITMA trade fair in Milan, they will find innovations, high-performance machines and skilled staff, who can also offer technological support as contact partners.

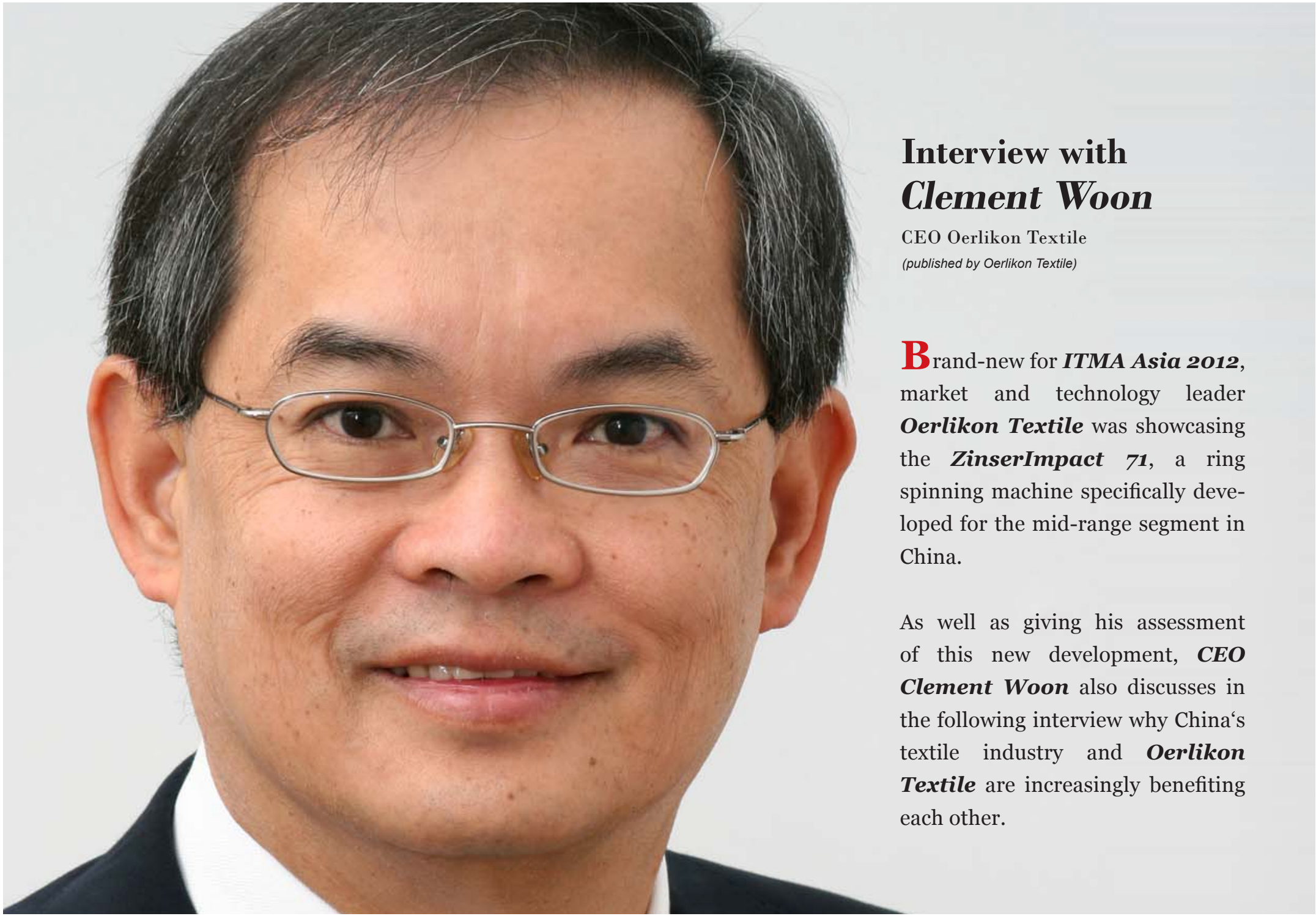
Autefa Solutions in Friedberg

China wants to grow considerably in the nonwoven and technical textiles sector. Has Autefa Solutions considered developing special products for the Chinese and/or South Asian market that are more attractive in terms of cost, for example as is already the case with Monfongs products within CHTC?

Dr. Schlichter: We are developing special products for the Chinese market in close consultation with market experts for the Chinese and South Asian market. We are already working intensively with our colleagues in China on these solutions. This work also meets the demands of many of our existing customers who have production sites in China. In our developments for the large Chinese market, we are also taking into particular consideration the increasing labour costs in China.

We wish you much success with that and thank-you for the interview.

Needle loom Stylus



Interview with *Clement Woon*

CEO Oerlikon Textile

(published by Oerlikon Textile)

Brand-new for ***ITMA Asia 2012***, market and technology leader ***Oerlikon Textile*** was showcasing the ***ZinserImpact 71***, a ring spinning machine specifically developed for the mid-range segment in China.

As well as giving his assessment of this new development, ***CEO Clement Woon*** also discusses in the following interview why China‘s textile industry and ***Oerlikon Textile*** are increasingly benefiting each other.

„We deliver optimal environmental performance thanks to our e-save philosophy“

CEO Clement Woon on the latest Oerlikon Textile activities for ITMA Asia 2012 and China‘s move towards automation and sustainability

Mr. Woon, what were the main areas of focus for Oerlikon Textile at ITMA Asia 2012?

Woon: We showcased leading technological solutions from our five brands in the areas of manmade fibres, natural fibres and textile components for the requirements of the Asian and, in particular, the Chinese market. Our specific areas of focus have been sustainable textile production and our e-save programme, which started in 2004. Our certified machines are more productive, save more energy and gentle to the environment by producing less waste than comparable products. At ITMA Asia we were therefore again offering people the opportunity to investigate our technological world in detail. All visitors were also warmly invited to our „virtual showroom“ where they could explore complex installations and processes for non-wovens, synthetic staple fibres and BCF carpet yarn plants in 3D presentations.

Can you give us some examples of the e-save improvements?

Woon: For example, our Autocoro 8 rotor spinning machine, which we presented last year at ITMA Barcelona, gives a higher productivity of up to 25% or more compared to its predecessors and to current competitor models. And I think we can safely say that our Allma CC4 two-for-one twisting machine is revolutionising the market in tyre cord cabling, achieving energy savings of up to 50%. And our FDY-WINGS filament winding machine shows its class in three areas: It gives energy savings of around 25%, it only requires half the footprint and it helps spinning mills save on handling and even personnel thanks to a new more ergonomic, compact design.

These are just a few of many examples in our product range that offer our customers optimum performance in terms of economic and, particularly, environmental aspects. We do not see sustainability as a stumbling block, but as a pacemaker for innovative technological advance.

Does this also apply for your activities in the Chinese market?

Woon: Absolutely. As you'll certainly be aware, the 12th 5-Year Plan passed by the Chinese government particularly promotes automation and the achievement of higher quality in textile production. Environmental improvements and a reduction in labour and energy costs are also key themes. If you consider our portfolio and its strengths against this background, it is immediately evident that Oerlikon Textile has the right answers to the questions and requirements of the Chinese textile industry of today and tomorrow. We can benefit greatly from each other as since 2004 our development and manufacturing processes have been based on our self-imposed e-save philosophy. Here we focus on higher energy efficiency, improved machine effectiveness and productivity, reduced environmental impact and better ergonomic design which has had effects, e.g. in the areas of handling and noise reduction.

Oerlikon is present at 150 locations in 38 countries.

Oerlikon Schlafhorst rotor spinning machine Autocoro 8

How strongly is Oerlikon Textile positioned in China?

Woon: Our activities here go back to the 1960s. China is today our main target market. We have sites in Shanghai, Suzhou, Beijing, Wuxi, Jintan, Urumqi and Zhengzhou with a total of almost 2,000 employees. In 2011 our sales reached nearly 1 billion Swiss francs, which is almost 50% of our sales in the Oerlikon Textile Group. The importance of this market is also reflected in the fact that part of our management team now operates out of Shanghai. We are represented with all five brands and therefore offer our complete product range in China with total solutions for the yarn manufacturing. And we're coming to ITMA Asia with a brand-new machine that should be extremely interesting for the Chinese market.

Can you tell us a bit more about this?

Woon: Oerlikon Textile's products are primarily positioned in the automated high-end segment. Now following the Zinser 360 we are entering the mid-range market more strongly with the ZinserImpact71. Our new machine is suitable for a wide range of raw materials and yarn titres and can be set quickly and easily when switching yarn qualities. The system is self-cleaning compact system for constant and reliable yarn quality. Machine control and engineering are designed for low personnel input, low energy consumption and low maintenance as well as high productivity and fewer machine downtimes as a result of yarn breaks or twist. These are all arguments that are received well in China. What are your hopes for the machine and the development of the mid-range segment?

We have already gained useful experience in the lower high-end segment over the past few years in various technology sectors. In rotor spinning we have achieved great sales success in the past two years with the semi-automatic BD series, which is manufactured in China. With the new ZinserImpact 71, we are therefore confident of going straight to the heart of the market and offering a product that has a future in China. Particularly in the spinning mill sector, Oerlikon Textile continues to be a trendsetter and innovation leader with new products. We intend to cover better the bread of the market.

You have been CEO of Oerlikon Textile since the beginning of 2012. What are your main areas of focus for taking the business forward?

Woon: The textile industry is a challenging industry. Firstly, the coverage of textile machinery is very wide. The value chain from raw material to the final product is long. Secondly, it is dynamic and subjected to many factors. Thirdly, it is an important industry that provides needed jobs especially in emerging countries. My focus is therefore on the strategy of our company to be more customer focus, more responsive to the dynamics of industry and more innovative in terms of our enterprise and products. To shape the future, we need to continuously build capabilities – across the entire management team.

The new Zinser Impact 71 ring spinning machine

Interview with *Dirk Polchow*

Managing Director Interspare

(by Oliver Schmidt)

INTERSPARE on road to long-term success with Krantz, Artos and Stentex

Since 1984 the Reinbek-based INTERSPARE (Germany) has delivered spare parts for textile machines worldwide, in particular for finishing plants. In 2007 the company bought all rights for the brands ARTOS, BABCOCK (BTM), FAMA-TEX, HAAS, KRANTZ and STENTEX from the previous owner Moenus. Carsten Kalek and Dirk Polchow, both active in the textile machine industry for over 20 years, stand at the head of INTERSPARE. In the TexData interview with Editor in Chief Oliver Schmidt we look back together with Managing Director Dirk Polchow and Commerce Manager Hartmut Büchner at the development of the company over the past five years and give an outlook.

Mr Polchow, five years ago you bought the rights to various brands from the insolvent Moenus, amongst them Artos, Krantz and Stentex. Looking back, how do you judge this purchase now?

Polchow: That was a giant leap for us back then, but also a fantastic possibility to expand. As a supplier of high-quality spare parts, preferably for finishing plants, we had already earned a good reputation in the worldwide textile industry over the years and so supplying spare parts for these machines was merely a lucrative expansion of our core business. However, the production of new plants that we already looked at then was a completely new business area. The investments were not insignificant for our company, but we were always convinced that we did the right thing in expanding our business. Today I can say that we have more than met our objectives and new possibilities are still appearing.

A brand-new, super modern office building, and also a new storage and production hall. It appears that your company has on the whole developed very positively?

Polchow: Thank-you, that you see it like that. But you are right and we are also a little proud of our developments. Take the office building for

example that we have just moved into. It is a low-energy building and we were involved in the planning of it as well as being responsible during the building project. For Mr Kalek and myself as well as for our employees, environmental protection and sustainability are important elements of our corporate policy and we wanted to express this also at our head office. A further example for this is surely the solar panes on the roof of our new hall, with which we contribute actively to alternative electricity production. Of course, these developments of INTERSPARE are only possible because we are successful in our business. Our spare parts are much in demand due to the high quality of the products and our excellent service in consulting and delivery. And with our new production hall, we can meet the demands of our customers in the business area New Plants better and better.

You mentioned New Plants. Five years ago, the major unknown and a very ambitious goal. Were you able to produce and successfully deliver plants?

Polchow: Yes, we could. At the takeover we already had a few deliveries in the pipeline. We were able to master these and have systematically positioned ourselves long-term as a manufacturing company. Of course, that didn't happen overnight. Our focus was to facilitate modernisations and refurbishing besides building new plants and at first to ensure the spare part supplies to all plants of the acquired brands. After all, we were and are the only supplier of original spare parts of these machines. In contrast the fast availability for the new plants in the market was not first and foremost.

From the start we have concentrated on setting the new business area firmly in place and taking the time we need to do so. At first we focused on the machines from Krantz and Artos. We expanded the Krantz K30 tenter frame and could deliver it as completely new part to customers in Rumania and Morocco. And we have also already sold the Artos Unistar to former Artos customers. A further milestone was the ITMA in Barcelona. Here we presented machines at a trade fare for the first time with the Krantz K30. This gave our manufacturing business a new quality and we received many requests and enquiries.

Today we can say that by starting production in Reinbek the over 100 year's of history of Krantz and Artos is continuing and the quality products remain to be produced in Germany. That important for us.

I'm sure that wasn't easy- going from supplier to producer. How did you manage that?

Polchow: That really was quite a challenge. And two things helped us above all. The one is our network of German producers of high-quality spare parts. Here we knew from the start that also the production of individual parts for our plant was in good hands. And the second thing is that we didn't let the know-how of Krantz peter out. As I announced when we talked five years ago, we took over some Moenus employees and offered them new positions here in Reinbek. Owing to this win-win situation, we didn't have to start at zero, i.e. for the construction drawings,

but immediately had the most important production know-how. And also our customers have many years' experience with the machines and the final assembly of the plants is performed on site in close collaboration with the customer.

The Krantz tenter frame is not the newest anymore. If I remember rightly, it was presented as a Krantz innovation at the ITMA 1999 in Paris. Your competitors have developed their machines further since then– what about the Krantz K30?

Büchner: First we should establish the fact that the development of tenter frames is very slow – in contrast to other areas of textile machines. Tenter frames have been at a very high technology level for a long time now and the Krantz K30 was certainly one of the most innovative products in 1999, if not the most innovative in the tenter frame field. The company Krantz still had some improvements patented for the K30, such as for example the order of holes in the plates. Additionally the K30 has a very low maintenance, grease-free chain that is a. very important for the tensioning process and b. it is still among the best available on the market. That is just for your information. Naturally, it is also our aim to develop and improve our plants, for example regarding energy efficiency. In this area we cooperate with specialist companies as we as with the polytechnic. As a result we have equipped the K30 with the KAPrec heat recovery unit, for example.

Polchow: Very important for our Krantz customers is, for example, process reproducibility. Here the high temperature regularity of the Krantz K30 provides optimum conditions. That is an example, albeit an important one, that shows that our customers know what advantages the Krantz K30 offers. The tenter frame is successfully integrated in the production chain by very many textile producers and has been doing a good job for years. Why change something that works so well?

And now you are going to produce the K30 in large numbers?

Polchow: It's in our north-German nature that we approach matters in a hanseatic fashion; that is with confidence, but at the same time also with the necessary care, with a sense of proportion. By no means will we now jump the gun and start mass-production. What we have in mind is a successive expansion of our production capacity in order to satisfy our customers' wishes and order requests as best possible. In other words, a low-volume production geared to our customers. However, it is not that we can only produce one or two plants a year. We are perfectly able to manage orders up to about the lower two-digit range.

At the ITMA Asia + CITME we were recently somewhat surprised that we saw the Stentex brand also at the Son-Tech stand. What does that mean?

Polchow: This is a new cooperation deal that we concluded with the company Son-Tech from Foshan. Son-Tech has built and developed dying plants for many years and accordingly contributes a certain expertise. With the cooperation the company Son-Tech builds and sells our Stentex plants and we supply them with the parts and components. This means that we can satisfy demand for Stentex plants in the Asian market optimally without having to expand our own production capacities. This is a classic win-win situation for both partners and we are very pleased to have been able to arrange this cooperation with the company Son-Tech.

How important is the business in Asia for you and how happy are you with the ITMA Asia?

Polchow: As for every textile machine company, Asia is a very important market for us. Beside China, that is currently undergoing a process of change, also other Asian markets are very interesting for us such as India, Pakistan, Bangladesh, Vietnam and Cambodia. Here we always focus on the textile producers that already use Artos and Krantz in their production chains, appreciate the products' advantages and whose employees are familiar with the handling of the machines. We aim for a cooperation between partners in order to satisfy the customer's needs as best possible and design the plants to suit the individual customer requirements. We could talk to numerous customers from China and other countries at the ITMA Asia and will now see what comes from that. So we are quite happy with the ITMA Asia, even if we do hope that even more visitors from the other Asian countries find their way to the ITMA Asia + CITME in future.

And how is the spare part business running?

Polchow: Now, how that's going is perhaps best seen at our new logistics centre. Here we have about 3.000 sqm to store spare parts from three decades of textile machine production. With this investment we believe that we will be able to serve our customers even better and faster. The same as in the production, yes the whole of INTERSPARE, this bsuiness is geared to the long term. As owner-managed, independent company, it is our goal to be a very reliable partner for our customers and continue to grow with them in future.

We wish you much success with that and thank-you for the interview.

Fashion show at Oerlikon headquarter in Shanghai

Textile demo-applications with a difference

Demo-applications are in great demand. Hardly a stand at one of the large trade fairs, such as recently the ITMA Asia +CITME or ITM, where we are not told by the textiles, clothing and sports' articles in the designer showcases that tempt us, "Look at me! I was made on the machine standing next to me!" The reasons might be different: from grabbing attention to relaxing the atmosphere up to proper concrete support for the customer.

Dress with innovative pattern made on a Stoll knitting machine

It always makes sense when, for example, the company Stoll also shows samples of the patterns that can be produced on the new flat knitting machine CMS 530 HP-ADF and that would not have been possible at all before or only by investing a lot of time and expenses. It's also about getting the customer's imagination and creativity going as well as presenting certain unique selling points when they make a certain investment. And even if it's not about truly big changes, it can still be helpful to show the customer and interested party which possibilities there are still to be discovered and which lucrative markets could be developed so that the machines are used to their full capacity. And in the end the presentation of the differences in fabric quality can also help to advise the customers better and convince them to make an investment.

Mr Masaki Karasuno of the Japanese flat knitting machine manufacturer Shima Seiki told us at the ITMA Asia that the customers now nearly expect the machine manufacturer to bring ideas for products and markets as well. That does sounds a bit strange that the person at the beginning of a value creation chain must also look very creatively towards the end of it. Imagine that a producer of packing machines were to advise a customer on up-coming trends of future contents that will have to be packed.

This dress could be turned into a tent

Seen from that point of view it is hopefully also a little entertaining. It is fun to see the textile end products and not just the half-finished products. Fun and attention were certainly at the fore when Oerlikon came up with the idea to distance itself from real applications and to handle the topic a bit differently, a bit more bizarre. “I had the idea to present fashion made of all sorts of materials that can be produced with our machines“, says Andrè Wissenberg, Vice-President Marketing & Communications of Oerlikon Textiles. “I then successively expanded and honed this idea and found the right helpers for the job.“

Vice president Marketing André Wissenberg entertained his guests

And so the ‘Fibre & Yarns Award 2012‘ of Oerlikon Textiles was born. With the “Fashion research Center“ of the Donghua University in Shanghai on board, it was the students’ task to design evening dresses using Oerlikon materials and make references to the use of these materials as well as ensure sustainability as far as possible. Six Oerlikon customers contributed more than 1 ton of textile materials.

The result was an impressive fashion show, which was enjoyed by invited guests and journalists during the ITMA Asia + CIME 2012. Twenty models presented the designs from wearable to sharp and way-out to downright crazy in the new, spacey Oerlikon Textile headquarters in Shanghai. Dresses made out of BCF carpet yarn or artificial grass is not something you see every day. Also fibreglass, cotton, draw textured yarn, IDY synthetic staple fibres and PVC were used and the dresses themselves also had some surprising features. One dress could be turned into a tent just in case one might be needed.

The next day, the visitors at the Oerlikon Textile stand on the ITMA Asia + CITME could enjoy the extravagant gowns. Now the winner has to be found among the many imaginative ideas, The winner can expect a ‘tasty prize’ that has something to do with fashion shows- who would have thought?

We say: a great idea, to inspire and support young designers and offer also the technical trade fair visitor something slightly strange.

16th Denkendorf Spinning Colloquium

(published by ITV Denkendorf)

In the well-known Denkendorf colloquium series, the ITV Denkendorf organised the 16th spinning mill colloquium on the 20th and 21st of June 2012.

Raw material supply and processing in European spinning mills

In the focus of this year‘s colloquium were the potentials of air jet spinning and the supply and processing of raw material in view of the changing procurement market. Well-known consultants from research and industry reported about the current situation in the raw materials market and the demands resulting from this for the spinning mills in Europe. In addition, these consultants presented procedural and technical spinning mill-related developments and product innovations with a main focus on air jet technology. About 200 participants - mainly from Germany and Western Europe - used the Denkendorfer spinning mill colloquium for gathering information and to exchange views with other spinning mill experts. In the lecture hall, the textile mechanical engineering industry, as well as yarn producers and users, were broadly represented. The spinning mill colloquium, which enjoys a long tradition, was confirmed once more as a renowned branch meeting place.

Europe as a procurement market

After radical structural changes over the last decades, the procurement market is now marked by a fibre resource shortage coupled with a simultaneous increase in demand and quality requirement. „From 2000 – 2050, textile demand will rise between 3 - 4.5-fold. Even today, the fibre quality required by the market cannot always be procured, especially at the desired price and in the desired amount. Often one has to fall back on other fibres with divergent quality to fulfil the orders“, says Uwe Heitmann, Head of Research into Batch Fibre Technology at ITV Denkendorf, in his opening speech, presenting a picture of current challenges in the procurement market. Many conference contributions confirmed this appraisal with the help of impressive speakers. For example, the speech by Elke Hortmeyer from the Bremen cotton stock exchange regarding the situation in the world cotton market, or from Johannn Leitner from Lenzing AG.

Leitner forecast an increase in global fibre consumption from the current figure of about 78 million to about 125 million in 2030. The huge increase in demand cannot be covered by the increase in cotton production. „Cellulose fibres like Tencel and Modal will be used on account of their cotton-similar qualities, hence, more increasingly“, said Leitner, convinced. „Raw material for the production of chemical cellulose, the basic material for the production of cellulose fibres, is available in sufficient measure.“

A speech on the subject of „Structural changes“, a topic addressed by Guiseppe Gherzi from Gherzi Textil Organisation AG Zürich, attracted special interest. Under the title „Spinning mills in Europe in the future – possible scenarios“, Gherzi outlined the foreseeable development up to 2015 which will be marked, according to his appraisal, with a clear decrease in fibre production in the EU, and the disintegration of the textile chain. „The advance of the Asians with regard to world textile markets will continue. On the fibre supply side of things, this will increasingly also lead to disadvantages for European spinners. What remains are logistic, qualitative, technically complicated return scenarios, above all in the area of high-end end user brands, and as an offensive strategy, turning to new procedures - in particular with regard to air jet spinning. At the same time, technical textiles will continue on their growth path – still – relatively unchecked from non-European imports“, said Gherzi as he summed up his expectations.

Raw materials processing – Flexibility required

As well as the main focus on the „Procurement market“, the Denkendorfer spinning mill colloquium provided an overview of current product and procedure innovations which supports an adaptable conversion of increased production standards with a total of 18 contributions. In addition, Trützschler, Rieter, Oerlikon, Murata and many other enterprises, representing a Who‘s Who of the textile machine industry, provided contributions and answers to the current demands for the adaptable processing of a variety of raw materials. Special attention was given to the subject of air jet spinning, which will increase in significance in the future of European spinning mills, and this was discussed on the colloquium in a lively manner.

The advantages of air jet technology were presented by Dr. Götz Gresser from Maschinenfabrik Rieter AG, Winterthur. In his lecture on the new Rieter J20 air jet machine, he gave the spinning mills a clear recommendation to invest in this technology. „The advantages of air jet spinning are huge for the whole manufacturing chain, from the yarn to the finished product. At the same time, the economic advantages act as a persuader for this technology“, Gresser said, as he explained his recommendations.

Dr. Matsumoto from Murata Machinery Europe, Willich, and Alexander Hübschmann from Karl L. Hübschmann, Augsburg, provided a similar appraisal in their lecture „The advantages of Vortex threads and their subsequent treatment and use“. They introduced the new MVS 870 unit which offers maximum productivity and enables optimum process control.

In addition, Hermann Povel from Hermann Bühler AG, Sennhof, spoke of his experiences with air jet technology. As a specialist for the production of high-quality yarn, Povel had a list of requests addressed to the machine suppliers in his baggage. „We need a bigger choice in spinning nozzles, an improvement in the feel of the material product, and lower air consumption“.

Last but not least, Uwe Heitmann reported in his speech on the „Potentials of air jet spinning with regard to the variety of yarns“. Based on 4 current IGF plans on the subject of air jet technology, Heitmann gave an overview of the wide application spectrum of air jet technology and the advantages of specific thread structures for varied uses. For the technology buffs amongst the colloquium participants, Heitmann summarised the technical details from research projects, such as the necessary adaptation of nozzle geometry to the fibre raw material, or the air consumption of the fibre mass. Without doubt, most progress seems to have been made in the workability of fine cellulose fibres for fine yarn in the air jet area.

Innovations & Improvements

Part 4: Dyeing, Drying, Finishing

With our six-piece series Innovations & Improvements we mainly want to give you an overview of the respective status of technology.

This time we present selected innovations from the area Dying, Drying and Finishing as part of our Innovations and Improvements series. Even if the developments in these areas seem to be very slow, there is the megatrend of sustainability. This is most importantly geared at increasing protection for the environment, better energy efficiency with a number of improvements and new machines. In addition, there are new challenges that put technical textiles in place of textile finishing and also lead to a whole range of innovations. Let's get started – as usual always following the textile value chain.

Preparation Equipment

Benninger from Switzerland, member of bluesign and in the forefront of developing concepts for reducing the carbon footprint in the finishing process, made some modifications and improvements at their **Trikotflex** drum washer. The new Benninger TRIKOFLEX generation enables the finisher to treat the entire range from mono- and bielastic, as well as crease sensitive woven fabrics without problems and at low tension. This concept also offers savings on water and energy.

The Trikotflex gives optimum shrinking results ensured by single motor drives and offers a two side washing, specially important for dense fabric. A large guide roll diameter and proper spacing ensure crease-free operation. The machine comes with liquor separation due to two circulating systems and a separate intermediate squeezer. It has an excellent accessibility to the squeezers and compartments for cleaning/ maintenance, a high flexibility due to modular concept and it is connectable with EXTRACTA compartments.

In the new **UNIVERSA** made by **Gollar**, the conveyor belt is made of stainless steel in design which will bring a more stable condition in the transport of fabric. According to the process requirements, the dwelling time of fabric inside the UNIVERSA can be set in the process management system Goller Multidata. The UNIVERSA is connected to the filter device which can effectively filtrate the impurities and fluffs come out from the fabrics. Most worth mentioning is that the UNIVERSA has a flexible high and low liquid level adjustment device. So fabric spray washing can be used in low liquid level, but also in high liquid level for dipping washing. The combination of these two processes can make the washing more evenness, more flexible and better product handling results. Fabrics of different weight, or different dwelling time, the need of fabric piling height are different, you can adjust the height of fabric soaked in liquid for the best response to treatment.

Benninger TRIKOFLEX

Dying

A. Monforts Textilmaschinen has developed a new **MXL®** (moist cross linking) process in association with the new **Thermex 8000** continuous dyeing unit. The new process, developed on the Monforts MXL® range, ensures processing times are reduced from more than 20 hours to just 3 minutes. It also offers greater flexibility and high process safety than conventional systems. The process allows non – iron and laundry - fresh properties to be achieved on cotton materials with the shortest treatment times. , It was developed by Ciba Speciality Chemicals together with Monforts. The Thermex Hotflue chamber, making its international debut in the MXL® mode of operation, is manufactured in stainless steel to withstand the process acidity.

MONFORTS - Eco-Applicator

Fong's new generation of **TEC series** High Temperature Dyeing Machine with it's state-of-the-art design achieves aspects of low cost, high quality and environmental protection which are the interlink criteria. The machine is suitable for different dyeing processes with various types of natural, synthetic and blended fibers. Aiming to provide complete solutions: "Efficiency, Energy Saving, Environmental Friendly". TEC series is specially designed for fabric which is having tight and crease marks sensitive structure, such as 40S/2, 26S/1, 20S/1, tightly knitted fabric, and sensitive shade (E.g. Turquose).

FONGS - TEC series high temperature dyeing machine

With various new functions, cotton reactive dyeing process takes about approximately 248 minutes for light color. The water consumption for reactive dyeing cotton fabric is lower to 27.5, 37.8 & 47.6 L/Kg for light, medium & dark shade respectively. The new TEC Series is offered various capacities per chamber: 300kg (JUMBOTEC), 250kg (MIDITEC) and 200kg (MINITEC). Customer can choose in range of 1-12 tube. By the Fuzzy Logic temperature control function, the dye liquid temperature deviation can be minimized at + / -0.3 ° C. Specially designed for loose structure type such as terry towel and fleece; the collector can accumulate lint at the bottom and discharge it during draining. The “Lint Collector” is patented design.

The latest version of the legendary **THEN-AIRFLOW®**, the **SYNERGY 500 G2**, is suitable for all kind of fibres (except pure wool), making it the perfect high temperature choice for every dye house. The machine with the lowest liquor ratio in the market satisfies the highest demands in terms of efficiency and ecology due to the patented AIRFLOW- technology.

In addition, the latest model benefits from extra features, like for example the self-cleaning filter system or the “hot drop” facility, saving additional 25% of process time and giving the customer one batch more per day- not to mention the savings in chemicals, energy and water.

The **Thies iMaster H2O** features a completely new design of rope dyeing for the processing of knit and woven goods. By installing the transport winch inside the kier, cotton, synthetic fibres and their blends, including articles with a high elastane content are processed with significantly reduced elongation, resulting in fabrics of improved stability and surface appearance while offering increased flexibility in the processing of a wide range of products.

THIES - iMaster H2O

The machine is available with chamber widths of 525mm, 1050mm and 1300mm and has nominal loading capacities of 100kg, 200kg and 250kg. Configurations of up to eight chambers are available. There is an adjustable J-box, making the machine siutable for light to heavy fabrics as well as full and reduced loads. Running properties cover the range of 90 to 500m/min, and the dyeing, bleaching and rinsing is carried out withh extremly low nozzle pressure. Fabric speeds, nozzle pressure and plaiter are all automatically synchronised, and a new 'smart dose' system has been added for significant improvements on levelness and dosing time.

An additional focus has been on the significant reduction of water consumption together with a decrease in the consumption of chemicals, dyestuff and energy. In practise it is possible using conventional techniques, without the need for air technology, to work comfortably with a liquor ratio of 1:4. Complex rinsing systems combined with 'intelligent functions' for the pre and post treatment of the fabric help to further reduce the total water and energy treatment.
Special features of the iMaster H2O are a contact free dyeing – the fabric sits above the liquor level, the possibilty of heating the liquor during the filling process, a reduced tension on the fabric rope by use of an internal transport winch and reduced lifting height and a minimised selvedge curling.

Drying

The redesigned **Montex 8000** stenter from **A. Monforts Textilmaschinen** features a new heat recovery module incorporating a fully automatic cleaning system for its heat recovery system; a reduced distance at the infeed for knitted fabrics; a new rotating disc type 'fluff sieves' and a vacuum system for efficient cleaning; and further improved visualisation for the company's Teleservice facility. The stenter is available with a reduced infeed distance between the infeed roller and the needling point for knitted fabrics, preventing eventual edge curling. The distance has been further reduced by 60 mm.

The new heat recovery module '**Eco booster HRC**' with a fully automatic cleaning system replaces the earlier manually cleaned, tube system; ensuring continuous uninterrupted high availability. The ECO Booster HRC is completely integrated into the new chamber design of the Montex 8000. For ranges up to 8 fields, only one ECO Booster HRC module is required.

By contrast with purely static heat exchanger modules, the new ECO Booster HRC module is characterised in that it is cleaned automatically while the stenter range is running so that a constant optimum efficiency is assured. It eliminates standstill times for maintenance and hence significantly increases the range availability.

The ECO Booster HRC module is equipped with an electric drive which permits computer-controlled optimisation of the heat exchanger performance to the prevailing exhaust air streams, something that is not possible with purely static heat exchanger modules.The optimum efficiency of the ECO Booster HRC allows process costs to be further reduced.

During the cleaning cycle, the ECO Booster HRC requires only 100 litres of water. The whole process is automatically controlled and monitored.

The redesigned **Monfortex 8000** from **A. Monforts Textilmaschinen** comes with new features, a greater availability and less energy consumption during compressive shrinking. The machine is equipped with a larger shrink cylinder for longer shrinkage paths and up to 20% higher production speed is possible. It has an automated, operator-controlled grinding of the rubber belt for greater availability of the range and consistently high performance. This leads up to 80% time saving compared with non-automated grinding. The water consumption has been significantly reduced (up to 40%). An option for a faster rubber blanket changing with quick-change facility is available.

With the **SUPRA FLOW BH** the German **Brückner** introduced the first dryer for spunlace nonwovens. This belt dryer is characterized by an high temperature accuracy across the fabric width. The drying can be made very gentle and with low temperatures since the zone temperatures and the air circulation intensity can be varied every 1,5 m. In addition the nonwovens are dried on a transport belt without any tensions or distortions. This leads to a very smooth hand and improved quality features. The new belt dryer can be used without problems for large fabric widths, high production speeds and lightest fabric qualities. A particular feature is the energy efficiency of this new technology which has been introduced by BRÜCKNER on the market successfully in 2010.

Brückner's still new stenter **POWER-FRAME ECO** could be described also as a synthesis of performance and energy effectiveness. Their engineers developed a completely new, environmentally friendly dryer generation, which requires with increased production output considerably less heating energy. The dryer is provided with a central heating system, a completely new air control system and a sophisticated temperature control system. Compared to a normal stenter with heat-recovery system this dryer saves additionally up to 30 % of energy. The proven split-flow® air circulation system and BRÜCKNER's typical countered design has been maintained in this concept. This ensures an absolutely homogeneous air admittance to the fabric across the complete length and width of the machine. Since this line can be provided with a support belt it is perfectly suited for delicate knitted fabric, too.

The stenter has a minimum energy consumption due to central heating system with integrated hot gas ducts, the possibility of half-zone temperature control which allows an absolute accuracy in the temperature circuit and a clearly increased productivity .

The fabric transport is done with extremely low tension and the fabric paths in the entry area of the line is the shortest possible. The stenter also comes with an integrated exhaust air tubing and an easily maintainable, integrated heat recovery system on operator level.

The new tenter infeed system **ELFEED KRS 60** with new infrared edge sensor FR 5503 from **Erhard + Leimer** is an all in one - AC/EC compact actuator with integrated controller and direct AC - line operation. With the integrating of the motor and controller in one enclosure the company promises a reduction of assembly work and cabling by 70 %. Short cable paths reduce losses and possible external disturbances. An additional cabinet is not necessary. The brushless AC motor is extremely efficient and the low-friction planetary gear is absolutely maintenance-free. It can be used without a transformer in a direct AC-line operation between 100 V – 250 Volt 50/ 60 Hz.

The well-known **Krantz K30** now produced by the owner **INTERSPARE** from Germany has been modified by the company in several steps. It combines proven Interspare components with innovative technological solutions. The most important feature of this stenter is still the constancy in the distribution of the temperature and the pressure over the width and length of the fabric.
New is the possibility of putting an KAPrec heat recovery to the stenter directly into the existing exhaust ducts which makes a large-scale and expensive reducting unnecessary.

Mahlo from Germany has developed the new straightening concept **ORTHOPAC XRVMC-12.** The system offers the advantageous combination of simultaneous feedforward and feedback control of the straightening process. The multiple straightening units, selectable independently from each other, guarantee optimal monitoring with even faster and more precise straightening results. “Right first time production” thus comes within close reach and contributes to lowered costs.

The **Atmoset SMT-12** from **Mahlo** enables to product-dependent control of the heating capacity of cylinder dryers. With these dryers the heating capacity is usually optimised to the heaviest product. Because the web speed or the capacity cannot be simply adjusted for lighter products, the product is dried excessively and much energy is wasted. Mahlo has found a means of controlling the capacity of the drier in a quick, simple and reliable manner through residual moisture measurement and feedback of the condensate temperature of the drying cylinders. The ATMOSET SMT enables a stable and effective drying process. The optimal degree of drying is always reached, regardless of the weight of the product or the web speed. Continuity of the production process and reproducibility of the product quality are ensured.

The energy consumption of the dryers drops significantly due to the optimised heat output. This saves energy costs.

MAHLO - Straightening demonstration plant with Orthopac RVMC-12 and XRVMC-12

ERHARDT+LEIMER - Actuator ELFEED KRS 60

The modified **WUMAG TEXROLL Cylinder Dryer** is separated from hall ambient by a special encapsulation and equipped with the new developed WUMAG TEXROLL SteamPlus and AirPlus performance systems. Due to these features the evaporation capacity is increased and simultaneously the quantity of extracted air is drastically reduced. AirPlus stands for energy recuperation which is directly brought back into the drying process. The SteamPlus system stands for perfect temperature accuracy, improved regulation dynamics and a complete saving of the bypass steam loss. All systems are designed as Add-on packages and can also be retrofitted onto existing machines. The overall energy consumption of the cylinder dryer was reduced by up to 30 %. The hall climate is highly improved and the hall air conditioning is released which gives another energy saving effect. The operators are now working in a normal temperature condition next to the cylinder dryer. The fabric is produced under defined reproducible conditions with exactly adjustable residual moisture which gives a great benefit in production quality.

Finishing

The new **Eco Applicator** soft coating process from **A. Monforts Textilmaschinen** provides significant energy savings with reduced liquor application and eliminates the need for a conventional wet-on-wet padder. The new process using trough and roller techniques, applies just the required amount of liquid/coating to the fabric via contact with the roller.

It has been designed for three options – to apply a liquid/coating to one side of the fabric; to apply a liquid to both sides of the fabric; and to apply a liquid to one side and a different liquid to the other side.

The Eco-applicator range is suitable for felt finishes, coated materials and medical textiles. Applications include nano coating, water repellancy, softeners, flame retardency and insect repellent. When used for clothing applications, the soft coating process can, for example, apply soil-or water-repellency to one side of the fabric and softener or water absorption, respectively, to the second side.

The new process can eliminate the need for a conventional padder, applying the liquid/coating via a roller. A twin-roller is used for double-sided applications.

Compared with a padder operation, the initial moisture content of 60% is reduced to 40% using the Monforts soft coating process; ensuring a reduction in drying times and reduced energy costs.
Brückner has modified their **TECHNO-LINE COATING** with a new application unit for the direct coating of bi-elastic knitted fabric which is integrated in the stenter entry. In addition a new application unit for the coating of the lower side of the textile web has been developed. Both units in combination allow a simultaneous coating of the upper and lower side of the textile web in one dryer passage.

The new coating and laminating machine, called **CAVI-2-COAT**, is **Cavitec's** latest addition to its already extensive range of hotmelt coating and lamination solutions. A masterfully designed arrangement allows the user to coat films, membranes or textiles with one of the following selectable techniques: Full Coating, Reverse Coating, Both side coating, plus the by now traditional Gravure (Dot) Coating. As in all Cavitec products, several configurations are possible: from coating only with small batches up to non-stop lines combining coating and laminating in one process.

The new cutting system **ELCUT BTA 80** from **Erhard + Leimer** fully meets the requirements of knitted fabric manufacturers: Substantially reduced cutting waste, minimum maintenance, long life, and easy retrofitting of old cutting devices. Long-life blades that can be used on both sides, an actuator allowing exact positioning of the system via two push buttons, or automatic follow-up control of the cutting devices by web edge via sensors guarantee top performance at minimum effort.

There are three versions of ELCUT BTA 80: The basic version is supplied with an actuator allowing exact manual positioning via two push buttons. The second basic version includes a sensor with a captive range of +/ - 3 mm. When the web width changes the sensor has to be positioned manually once, then the system automatically follows the web edge. The premium version is supplied with a wide band sensor that has a captive range of +/- 75 mm. When the web width changes the new position of the web edge is fixed at the push of a button. Due to its wide captive range the web is always in the field view of the sensor.

SANTEX - CAVI-2-COAT, coating and laminating machine

The ELCUT BTA 80 system convinces through continuous concentration on customer demands, minimum maintenance effort, and high value for money.

ICOMATEX from Spain has developed a new heating system called **DUAL-HEAT**. With an unreliable supply of gas, in some countries, the DUAL-HEAT system combines gas and thermal oil, to ensure the customer that there will always be a heating system available if the gas supply should become unstable. This system also gives the customer the full flexibility to use the most adequate source of heating depending on the fabrics, to maintain the highest possible quality of the finished product. Companies can now use thermal oil or gas depending on the fabric quality, so the difficult choice between what heating source to use is no longer a dilemma.

A novelty by **Santex** from Switzerland is **Synpact** – a very fast compacting machine. Synpact is a continuous two-stage compacting machine which combines the virtues of the rubber belt with the superior handle of the felt shrinking technique. This compactor, already installed and running with a leading customer of Santex, delivers at high speeds up to double than those achievable with the felt technology, while maintaining a better residual shrinkage, lustre finish and excellent touch of the knits.

Xetma Vollenweider developed a new, powerful brush-sueding and emerizing machine. The new **X-TREME XEB** allows revolutionary production speeds and combines 3 technologies (emerizing, brush-sueding and combined brush-sueding + emerizing) in one machine system. This is possible due to the new and innovative lightweight construction of the brushing rollers and the new drive system, which guarantees higher rotation speeds of the brushes and thus a more intensive treatment of the fabric surface. Unique surface effects of incomparably high dense and softer touch can be reached by combining different technologies in just one operation.

With the new developed shearing machine **X- PLORE XCS** the German-Swiss company **Xetma Vollenweider d**oes justice to its reputation as longest-standing manufacturer of shearing machines in the world. With a nominal width up to 6.000 mm best shearing results for all kinds of woven and tufted carpets, needle felts and artificial turf can be reached.

The extremely precise Xetma Vollenweider Heavy Duty Shearing Units® are equipped with a hydraulic pressure and lift-up system as well as an integrated dust removal. Special pile preparation systems prior to shearing guarantee an optimal finishing of textile floor coverings in wide widths.

XORELLA's new **XO-Series** uses key components with uncompromised quality and excellent engineering in both performance and reliability to help the customers to save the energy consumption by 15%-25%. Cornerstone of the new series is the advanced XO-Steaming system, which uses the renowned intermediate vacuum technology and combines with internally produced 100% saturated steam to effectively humidify, set, pre-shrinkage and relax the textile products.

From the standpoint of the customers, the Swiss designed XO-Series machines incorporate the ecology concept to offer unprecedented low energy consumption and an incredible simple design with minimum maintenance requirement to meet the lowest process cost and highest quality requirements. Treatment vessels and pipes of new XO-Series machines are made of high quality stainless steel. The operational efficiency is significantly improved by automatic loading platform.

Conclusion

Rising prices for energy and water as well as an increasing number of environmental regulations are challenges that all textile finishers must face. The producers of textile machines and fittings in the area Dying, Drying and Finishing have done their homework and developed numerous solutions to make processes more efficient and save resources. With the recently published 12th Five Year Plan, China, the world's largest textile producer, has presented the high goals the country has set itself regarding environmental issues. The modernisation of old plants cannot be avoided in view of rising wages and growing demands on textile quality. This will improve the degree of automation and increase productivity so that the resulting lower costs can be used as a competitive advantage. This modernisation drive is flanked by the large retailers and brands. They have joined together to form the sustainable apparel coalition in order to monitor the processes along the value chain and improve sustainability. The segment innovations introduced in this excerpt will surely be helpful here.

TEXDATA
INTERNATIONAL

Get your *free* TexData-App for iPhone and iPad...

...AVAILABLE IN THE APP STORE.

Topics of the next issue 9/10

TOP STORY:

Is air jet spinning the future?

Innovations & Improvements

Part 5: Printing & Textile Chemistry

TexData is the smart and inexpensive way to reach your customers.

Hard facts:

Founded:
1997

Website:
free of charge & registration

Unique Visitors:
50.126 /month (September 2011)

Visits:
>140.000/month (August 2011)

Page Impressions:
>430.000/month (August 2011)

Infoletter & Magazine:
no fee, registration required

Subscribers:
21.139

New Subscribers in 2012:
753 (2012-02-15)

Estimated readers:
40.000 (accumulated according to analyses: some companies put the Infoletter in their Intranet and a couple of readers forward it to colleagues)

Publisher

deep visions Multimedia GmbH
In der Masch 6
D-22453 Hamburg
Germany

Tel. +49 (0)40 57 00 4 - 800
Fax +49 (0)40 57 00 4 - 888
E-Mail: info@deepvisions.de

Editorial

TexData International GBR
In der Masch 6
D-22453 Hamburg
Germany

Tel. +49 (0)40 57 00 4 - 900
Fax: +49 (0)40 57 00 4 - 888
E-Mail: redaktion@texdata.com
editorial@texdata.com

Technology and Typesetting

deep visions Multimedia GmbH
In der Masch 6
D-22453 Hamburg
Germany

Tel. +49 (0)40 57 00 4 - 800
Fax +49 (0)40 57 00 4 - 888
E-Mail: info@deepvisions.de