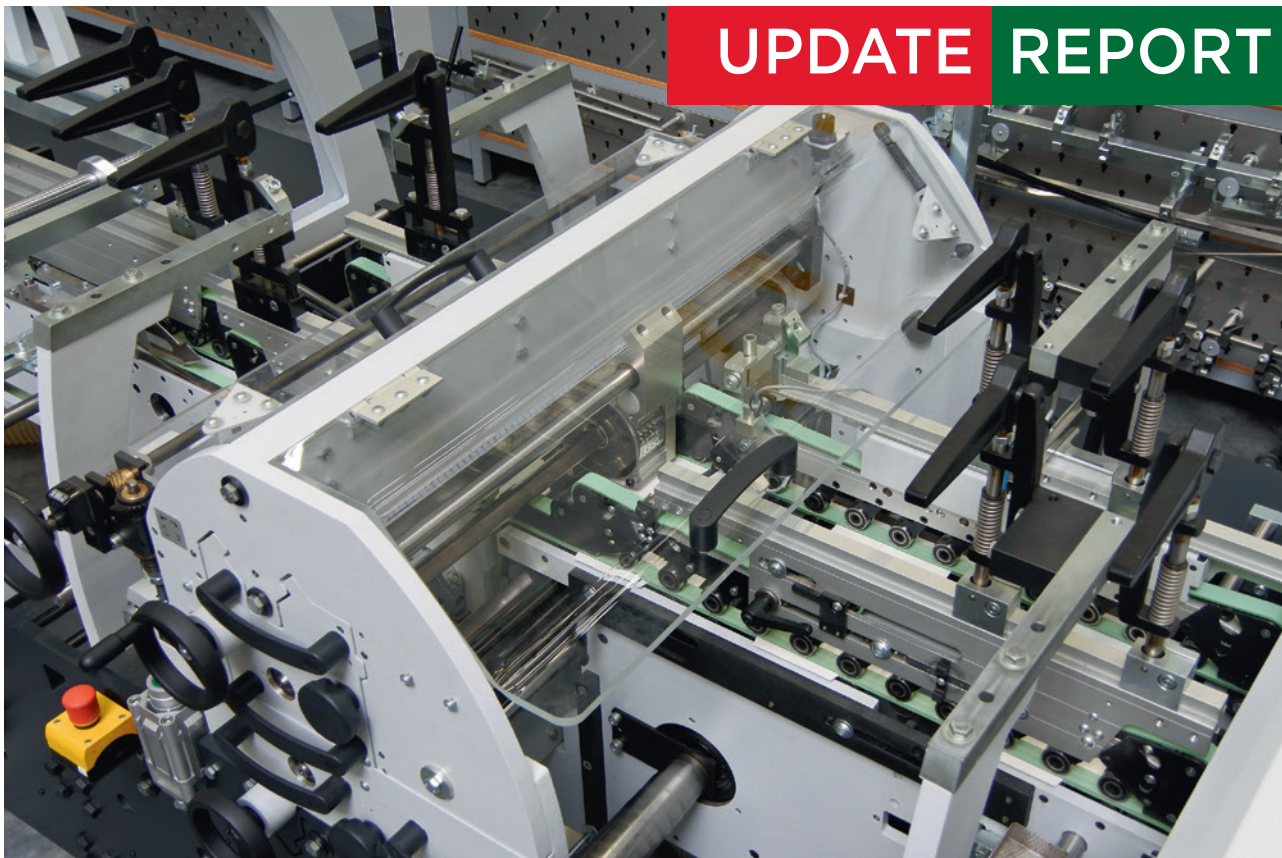


UPDATE REPORT



CARTON GLUERS AND WINDOW PATCHERS

DIANA DEVELOPMENTS

With an expanding market share, following record sales and with additional resources dedicated to R&D, Heidelberg was able to launch the Diana Easy gluer range last year. It has already proved to be very successful in the marketplace and has completed a three-tier Heidelberg/Masterwork folder gluer portfolio, enabling these partners to provide machines to meet varied budgets and process requirements. The Diana Easy is available in two width sizes, 85 and 115cm, and both are

capable of producing all the major carton styles, including an option for 4- and 6-corner cartons (which can be retrofitted at a later stage).

Heidelberg folder gluer manufacturing and R+D remains in Europe and the machines are all based on proven technology and a common manufacturing philosophy. The Diana brand features many common elements, the main differences between ranges lying in the lengths of the individual sections and the drive arrangements. "Heidelberg does not, and will not,

compromise on the quality of build in terms of machine side frames, construction of carriers or bottom glue pot design. This makes the Diana Easy the ideal universal machine for short to mid-range packaging runs where there is no need for complex folding," says Paul Thompson, product specialist for postpress packaging products at Heidelberg.

The machine can be equipped with three carriers, a combination folding module for quick and easy set-up of lock-bottom and 4-corner and 6-corner cartons as well as



an optional inline ejector that will divert the incorrect carton down under the trombone section, when linked to a quality control system.

The operator panel is logically laid out and very operator friendly. The operator can see all machine sections and make adjustments via the touchscreen. To reduce makeready times, the machines can be equipped with the option of Digiset, a system found in both the Diana Smart and Diana X models. The operator adds two or three dimensions and the computer calculates the positions of the carriers. By simply winding all the carriers to the zero position on the digital indicators, the main machine components are correctly set. In combination with Digiset, the dedicated folding attachments for double wall, Z fold and small cartons, among others, are simply and easily added into the machine. By simplifying the process, makeready

times are reduced, ease of use improved and uptime increased. Heidelberg has used many of the attachments from the Diana X and Diana Smart ranges, meaning that there is part exchangeability throughout the model range.

The mid-range is covered by the Diana Smart with new sizes and new configurations for 55 to 115cm working widths. The enhanced Diana Smart range is built to the same high standards as the Diana X and without compromise to build quality or set up times and produces impressive results in terms of quality, flexibility and output across a full range of carton styles and operating at speeds of up to 450m/min.

Although shorter than the established Diana X, the Diana Smart retains the same flexibility in terms of its modular construction, its durability in terms of build quality and its ability to produce a wide range of products. This gluer was the first new product to come to market following the R&D, manufacturing and sales agreement between Heidelberg and Masterwork. Possible options such as inline braille and inline inspection ensures the machine is ideally suited for the pharmaceutical market, where short

runs, integrity and quality are essential.

Probably the most flexible machine and Heidelberg's premier machine, the Diana X 115 continues to impress in both the high speed and large volume production markets. This model can operate at speeds of up to 650m per minute to output approximately 200,000 cartons an hour, making them extremely productive when in combination with the Diana Prefeeder, Stack Turner and Packer.

In the challenging complex carton market, where shorter runs dictate that makeready times need to be kept to a minimum, the Diana X has proved its worth time and again. Modular in design, each unit uses a separate servo drive for quick and easy integration – and that is combined with multiple carriage configurations with flexibility in positioning, in both running and cross machine direction and flexible folding modules. This combination makes the Diana X extremely versatile across a range of stocks and carton configurations, ensuring set up times are kept to a minimum. The open design of the Diana X series also means operators have very easy access to all the machine components. It is not uncommon for cartons that previously required two or three passes to be produced in a single pass, even without the optional turning module.

"R&D for the Diana Easy, Diana Smart and Diana X lines continues, always with an eye to develop solutions to meet current and future market needs of the packaging and commercial printer," says Paul Thompson.

Heidelberg's second generation inline Diana Braille system with enhanced running speeds, faster set and greater control is situated immediately after the alignment station of either the Diana X or Diana Smart, ensuring a really accurate positioning for best Braille dot results. It is a male-female method using an etched plate punched to create

the Braille emboss. The flexibility of the system design enables it to emboss on any panel, on any axis and on any size of carton with multiple lines of information. Even with the Braille unit running, the Diana ranges can still produce at speeds of over 100,000 cartons an hour.

Increasing demands from brand owners has spurred on the developments in inline inspection to ensure quality control and zero defect production. Heidelberg/Masterwork have developed the next generation of their the inline inspection system which has been renamed as the Diana Inspector. This system is based on the proven offline system the Diana Eye, which enables the inline system to handle a much wider range of substrates and added embellishments such as hot foil applications, embossing placement and print finishes. This is due to the combination of the light dome, camera technology and Masterwork developed software which removes the issues of reflection back to the camera.

The Diana Inspector can be set to a copy a golden image and can also be prepared to work with a PDF to assist the operator setting the inspection software that provides the image that each and every carton has to compare with. The software is very flexible enabling areas of the carton to be removed from the inspection if required and tolerances of size of error and colour of error can also be adjusted.

The new module can be added to the Diana X and enables the inspection of every carton run through the folder gluer at speeds up to 300 metres a minute. The latest development has enhanced the stability of the carton in the reading zone by incorporating a servo driven suction belt which matches the new ecological EU regulations. The standard module features a reading width of up to 450mm, however,

a second camera can be added to achieve a reading width of 800mm.

The alternative offline system is the Diana Eye, introduced last year, which features multiple cameras to ensure that all added value effects and functions, including metallised surfaces and embossing, are precisely checked, qualified and sorted using a combination of cameras, angles and light sources. This system is the perfect solution for the high quality cartons found in the top end drinks, cosmetic and pharma markets as well as in bespoke presentation packs, which rely on perfect quality for every carton.

www.heidelberg.com

ALIUS IS NEW

Hailing 2018 as a 'milestone' in the company's continuous development, Duran Machinery's Sales and Marketing Director, Pinar Kucukaras, said that the year was marked by the launch of the new Alius folder gluer, which had its world premiere at the Print4All expo in Milan.

The Alius has been designed specifically to meet Industry 4.0 requirements by combining cutting edge technology with ease

of operation. It combines fully automated set-up by calculating the carton dimensions, with high speed operation to create a new experience in production, and is available in 70, 90, and 110 sizes with a top belt speed of 600m/min. The intelligent set up also includes instant recall of all settings for previous jobs.

The 'Alius', which means 'different', is set apart by its degree of automation in which 27 adjustment points are accessed from its computer. It has a screening system that can be remotely accessed and like all Duran folder gluers it has an online link to the Duran Service Team for remote support, if needed. Easily integrated with ancillary equipment to offer maximum productivity, the Alius works best with the Duran Pre-Feeder and end of line with fully automated packer, Omega Pack.

Overall, the Duran Allpro, Hi-Line, Intro and Magnus models all enjoyed good sales in the past 12 months for a variety of applications including successful customised projects installed at various multi-national converter plants. All Omega gluers are manufactured at Duran's plant in Istanbul utilising highest quality



The new Alius folder gluer is designed to offer a high degree of automation to meet Industry 4.0 requirements

components. Each line is targeted at the performance required for the different production needs of cartonmakers and trade finishers.

The Omega Intro 110 offers Duran Machinery's fundamental engineering quality at an attractive price, while being a full-function folder gluer. The popular Allpro is the proven all-rounder in the Omega range around the world, being versatile across a variety of complex work on both cartonboard and corrugated board. Available in eight widths, from 55 to 185cm, and capable of 400m/min, Omega Allpro folder gluers can be fitted with a number of ancillary units, including Braille Embossing, a Turnpro section to turn the carton flow on the gluer, a Nick Breaker for beverage carrier cartons, an Ejection section for quality assurance and inline window patching integration – as well as the Omega Pre-Feeder and Omega Pack, allowing for the greatest range of product customising in the field.

The company is always keen to respond to special production requirements and encourages its customers to investigate new packaging styles. For such projects, the company designs and manufactures the required folder gluer module for that specific carton design, while still allowing the machine to efficiently run standard jobs with high performance.

www.duranmachinery.com

QUALITY CONTROL

Having designed and manufactured folder gluer lines for more than 75 years, Bobst has a wealth of experience in this field. From their original machine, the PCR 382, right through to today's high productivity models, they have utilised the know-how of their people, the input of users and extensive research and development. This has helped to produce equipment that constantly

advances what can be achieved using this in-line process.

Each folder gluer and peripheral in the Bobst range is designed to deliver versatile performance, high product quality and excellent reliability. Nowhere is this better exemplified than with the EXPERTFOLD folder gluer range. Available in 50, 80 and 110cm widths, the wide choice of modules available means that lines can be configured to precisely reflect what clients need. It is an extremely versatile folder gluer, allowing clients to produce an impressive number of box styles – from small pharma cartons and cosmetic cartons to general food cartons – in a wide range of materials at speeds of up to 450 meters per minute.

EXPERTFOLD is also easy to operate and allows users to simultaneously carry out other in-line processes, such as Braille embossing with ACCUBRAILLE GT and quality inspection with ACCUCHECK 2, making it ideally suited for the pharmaceutical and cosmetic markets.

ACCUCHECK 2 is the latest quality control system from Bobst and is compatible with all EXPERTFOLD widths. It inspects carton blanks for defects as they enter the folder gluer and makes zero-fault production of boxes a reality.

Because ACCUCHECK 2 is an in-line solution, which is fully integrated into the EXPERTFOLD folding and gluing system, it is a seamless progression, with no additional quality control steps in the process required and ensures perfect quality before shipping to the customer. As a result, the production quality process is improved while quality check running costs are reduced.

www.bobst.com

VARIOUS SOLUTIONS

Lloyd Print Services (LPS) have been the main agent for Signature UK and Europe since 2016, but have been working together since 2008, and can offer customers substantial new and secondhand carton gluer solutions. They have expanded the demonstration fleet in Wakefield from one to three machines which are ready to demonstrate to potential customers. The machines include:

- Signature Elite 110 with QuickSet, Fastfold, four and six corner with a top speed of 700m/min
- Two Signature Premier 110 Straight Line and Crashlock machines. Four and six corner can be added. Top belt speed is 475m/min. This is a mid-range machine with all the benefits of QuickSet, making it a high mid-range machine.



The Signature range is known for its robust durability and versatility at an affordable price. "Now we have game changing additional software and controls, including the LPS full Autoset and job recall system QuickSet. This LPS motorised carrier positioning system can have many hundreds of profiles saved on the system from off line or on line machine screen uploads. This enables a Straight line Signature machine to be set ready for running in five minutes.

Four such machines are already installed and customers are reaping the benefits of ultra-quick make ready times on short run work. This system also makes a huge difference to the make ready time for complex machines providing the operators a solid foundation of carrier position to work with. All profiles are monitored by the new Adaptive Control System which constantly maximises output of the machine relative to the selected belt speed optimising the production potential.

LPS have integrated the QuickSet system successfully on four Signature Elite 110 machines with various configurations, including installations at customers with high expectations in Germany, France and Belgium. Three were complex machines incorporating four and six corner with FastFold, high speed hookless one touch set folding system. The company has also

upgraded two machines from other manufacturers, to add the benefits of LPS software to their existing lines. In addition, the same system with all the same attributes has been integrated in to six Jagenberg gluers refurbished to as new condition.

Coupled with a new alignment unit, an old machine can become a very solid new robust and effective machine with all new CE certification.

"As part of our drive to move the industry forward we have developed a carton alignment unit which can be installed into any gluer," says Simon Lloyd. "The inclusion of this alignment unit in an older machine could be a step change in production having a positive effect on quality and speed. Over the last 18 months we have expanded our Polish workshop and storage facility to double the size which has increased our overall capability and ability to react to customer requirements."

Every LPS machine can incorporate a quality system BuzBox which allows quick installation of any quality system to the parent machine, cutting down on installation time and conflicting signals. All installation brackets and anchor points are designed and integrated into every machine installation.

LPS can also offer a 'SwapOut'. They overhaul a machine in their workshop and supply the machine with an integrated quality and glue

system specified by the customer.

The machine exchange can be arranged over the weekend which has minimal effect to loss of production.

The latest addition to the LPS range of gluers is their new Signature Premier which features:

- The Elite standard feeder
- New longer alignment module
- Three carrier frames in every section
- New larger diameter Elite glue wheel with enlarged glue pot
- Drop down central final fold frame as standard for the minimal format quick size change which is a popular feature of the Elite machine

Simon Lloyd concludes, "Like all progressive and energetic company's our main asset is the dedicated team of carton industry engineers and ex-operators who have been hand picked to ensure that we maintain our position as a major supplier of gluers to the carton industry, providing innovation and practical solutions for our customers. Business this year has been exceptional and we are looking forward to 2019 with confidence."

www.lloydsprints services.com

NEW RANGE

The Brausse Forza range of folder gluers, manufactured by Shanghai Eterna Machinery (a member of Bobst Group), offer a wide range of machines adapted to the demanding needs of today's cartonmakers and finishers. Since its debut in 2014, the success of the Forza range has meant a wider range of customers and operators have continued to praise its versatility, productivity and very short return on investment.

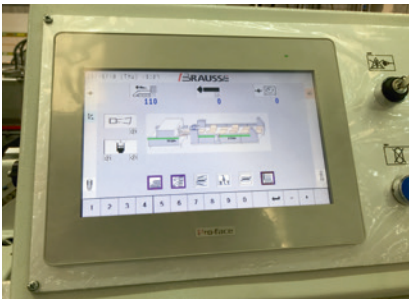
Brausse has been continuously investing in R&D and with the addition of group technical resources the Forza range has been completely updated. The first version, the 900, made its debut earlier this year and was closely followed by an 1100 model and by the end of the year a 650 version will be available. Meaning that from



<https://www.youtube.com/channel/UCsw2Kf89XiH-8btibRYSOGw/videos>

simple configurations to demanding applications a suitable version is available and the Forza now offers new levels of flexibility and productivity.

An all-new operator interface allows simple and intuitive setting of machine functions and new options include carrier motorization with memory setting.



The new carrier design incorporated throughout the machine, benefits firstly the pre-break section allowing for greater control of complex and disproportionate styles of cartons, while assuring high speed precision for straight-line boxes. Further benefits are the longer crash-lock and folding section modules giving increased flexibility and enhanced running speeds.

The new features of the transfer and delivery section enable very tight control of the carton shingle. Stops and jams are significantly reduced.

The modular design of the Forza allows it to be configured to suit the broadest range of applications and carton styles. It is available in straight-line, crash-lock, 4/6 corner and configurable for many special applications.

www.brausse-europe.com

NORTH AMERICA AND LATIN AMERICA

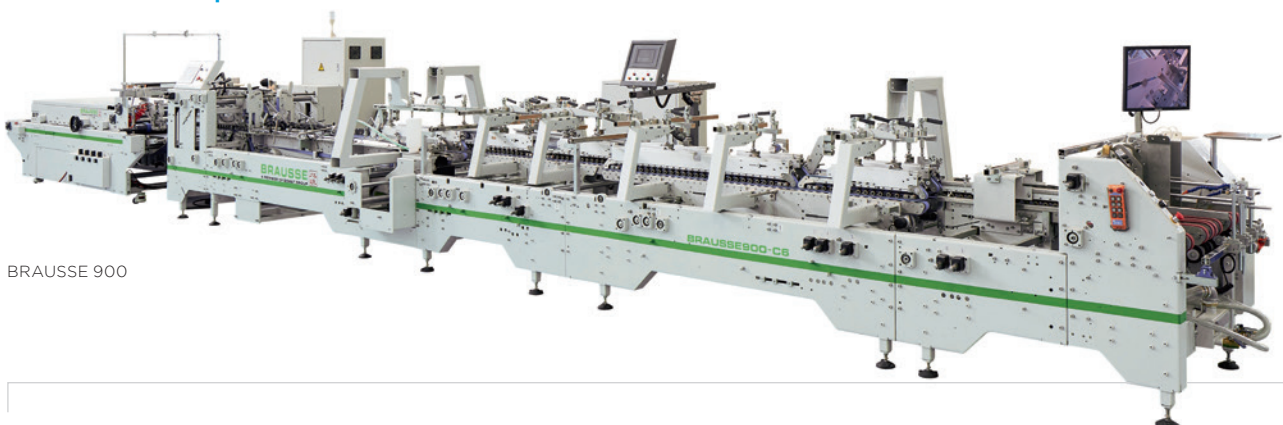
The Signature line of gluers, pre-feeders and automatic carton packers are distributed in North America and Latin America exclusively by American International Machinery, Inc. With 24/7 service and training support, the Signature family is quickly growing to be the brand of choice for cartonmakers that want a customised machine for their individual packaging needs.

The Signature line includes the Elite, Premier and Compact. The Elite can run straightline, lock bottom and 4 & 6 corner cartons. Known for its standard carton aligner, inline carton ejection, pneumatic carriers and extended/dedicated pre-break section, the Elite is a multi-functional converting system. The Premier is considered the most affordable and offers a wide variety of options including Servo-back fold, carton aligner and/or inline carton ejection unit. This model offers customers an opportunity to customise the machine to their needs without over-investing. The Compact is a heavy duty gluer designed to take up minimal floor space and to run small straight line and lock bottom cartons for the cosmetic, pharmaceutical and vending industries.



To further enhance the versatility of the Signature line, a variety of supplementary equipment is available including the Sig-Feed pre-feeder, Sig-Pack carton packer, Beverage Plus for bottle carriers, Rotobrilie for Braille embossing, Nick breaking and more. Recently, AIM partnered with EyeC creating a print inspection system that can be used with an inline module on the Signature machine, or as a roll up feature for any folder gluer.

www.aim-inc.net



BRAUSSE 900

GLUER PERIPHERALS

With a growth of over 30% per year, IMPACK pursues its development, both on offered machinery and country presence. The company is active in more than 55 countries on 4 continents and never stops to amaze clients with not only the quality and originality of their machines but also with the dedicated support to their clients.

was very skilled and was very empathic which is an absolute necessity in helping to convince our colleagues to change their way of working”.

The Ergosa A increases the folder gluer line productivity by its efficiency. *“Where we used to pack with two people, we can do the same job with one person*



IMPACK ERGOSA A

To be able to respond to the market reality of each carton producer, IMPACK reviewed the small brother of its best-seller (the Ergosa C) and developed the shorter Ergosa A to fit in small spaces behind a folder gluer, integrating an IN2 Box Turner. With the availability of lots of options the Ergosa A is compact and economical. The first installation of the Ergosa A at Van Grasdorff in Belgium resulted in a client more than happy. Whether it is regarding the Ergosa itself that *“is a very solid and robust machine, which is easy to handle and install”* or the engineers who installed the machine, *“they were excellent. The technician*

with the support of the Ergosa”.

More generally, regarding the project realisation with IMPACK the client states that, *“The preparation before the installation, the communication, the support during the installation as well as the overall reactivity on any question despite the difference in time zone, was very good. It was a pleasure to work with*



the entire Impack organisation.” What more can be said when you receive such a feedback from a client?

IMPACK has been a Bobst partner since 2012 and the IN180 Box Turner is a perfect example of this partnership. Especially developed by the IMPACK R&D department for the new Cartonpack 4 from Bobst, it is also compatible with all other existing packers. The IN180 Box Turner responds to a specific client need. Indeed, the IN180 Box Turner turns boxes 180° before the automatic packer or passes straight through when turning is not necessary.

With the e-commerce explosion, the carton industry must adapt itself to respond efficiently to this market. Using a lot of corrugated boxes that are stacked and strapped, but also because not all cartons are packed in a case, IMPACK developed the Everio Automatic Stacker. Paired with an automatic strapping system, it allows plants to completely automate their folder gluer lines. Once again, the modularity of IMPACK machinery reveals all its potential when it is time to adapt the packing line to the needs of each customer. Whether it is with an IN3 Box Turner, an MFA (folding carton) or Alterna (corrugated boxes) automatic batch inverter, the Everio stacks all cartons – straight line, 4 corner, 6 corner or crash-lock bottom box.

www.impact.ca



IMPACK EVERIO

FOLDING DEVELOPMENT

Based in Italy, Vega has been producing carton gluers for over 70 years. Most recently they have introduced a new folding system for the Polaris 90/110 and Aquila 62/82/102. The High Speed Folding Device allows operators to run crash lock bottom boxes without using the frontal fold mechanical hooks. Following research by the Vega R & D department, the standard brushless motors used for 4 corners boxes can handle the frontal fold of the crash lock bottom box flap by making a modification in the software and by adding a set of special hooks.

The High Speed Folding Device shown at the recent 'Print4All' exhibition in Milan, immediately attracted visitors' attention, recognising the undoubted ease of use and the technological innovation of this system.

www.vegagroup.it

EFFICIENT SHORT RUNS

What are the biggest challenges when it comes to the processing of short runs and digitally printed cartons? The key challenge is frequent job changes. That is exactly what the machine manufacturer KAMA has focused on when designing their FF

52i folder gluer with fully automated set-up. Thanks to the automatic adjustment and positioning of all sections of the machine from the feeder to the delivery, the FF 52i allows for changeovers at record speeds. Changing from straight-line to another straight-line box can be done in less than 5 minutes.

Another challenge is the high number of versioned and short-run orders that must be processed through all steps of production. "Today's challenge is to integrate the post-press machines in the work-flow," says Andreas Käfferlein, Sales Director at KAMA.

This German-based supplier is currently launching 'Job Manager', the software that enables data exchange between the customers ERP/MIS-system and KAMA's postpress solutions and establish a workflow 4.0. The software receives the electronic job ticket (with print file, number of sheets, applications and substrate) from the job preparation and sends them with the appropriate settings to the machine. When the job is running, the Job Manager transmits all relevant data via JMF to the customer's MIS, such as number of processed sheets, waste sheets, quality sheets, speed of production and remaining production time. The job status can also be displayed on mobile devices



There are many advantages to the system including a production increase due to the fact that the open blanks can be processed closer to each other – the only production limit is the speed of the machine. In order to run 4/6 corners cartons at high speeds, it will be necessary to add a further module equipped with two folding shafts, for a total of four.

Last, but not least, the set-up times can be reduced, since it is not necessary to mount and to remove the frontal spring metallic hooks from the machine, but the same hooks can be used for crash lock bottom and for the 4/6 corners.



The automatic KAMA FF 52i folder gluer for fastest changeover.

like a tablet or smartphone. The Job Manager software finally saves the data and provides a job report (pdf-file or CSV or XML) – a good basis for evaluation and also for a ‘quick start’ in case of repeat orders.

With inline inspection and options like plasma treatment for UV-coated and smooth surfaces, the automatic FF 52i folder gluer proves to be an efficient solution for short runs in packaging in the beauty, food, health care or pharma market.

KAMA's universal ProFold 74 folder gluer is also capable of running folding carton jobs but can do much more. The modular-design machine covers a wide range of commercial products like folders, envelopes, folding cards, calendars and capacity products. Applications also include dispensing cards, adhesive tape and product samples. Its potential in machine folding and gluing is constantly growing as KAMA develops new tools such as the new zigzag folding device for mailing bags, tight packaging or folders with variable volumes.

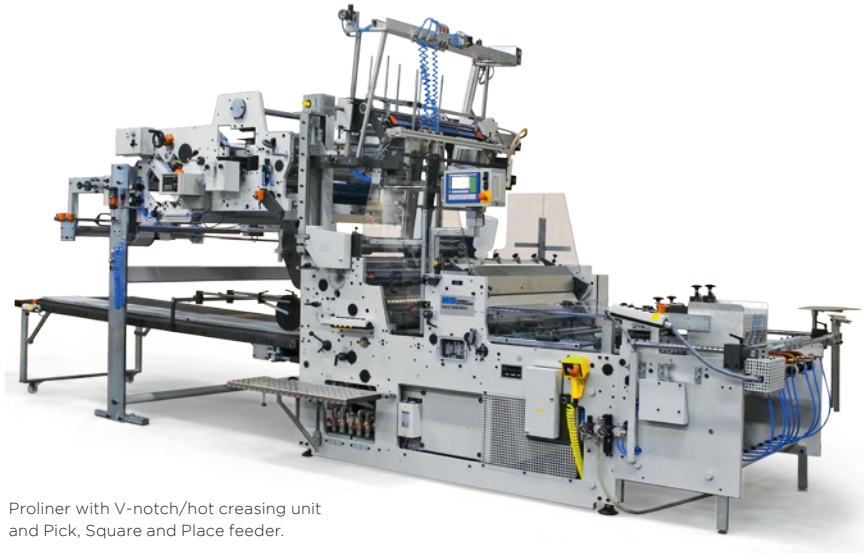
www.kama.info

WINDOW PATCHERS

COMPREHENSIVE RANGE

All investments are made to improve business performance. And when it comes to window patching or tray forming, the choice of equipment is even more important simply because the converter has already spent money printing, die-cutting and perhaps foiling the products to be finished.

Germany-based Heiber + Schröder has been an engineering pioneer for 30 years. “We understand that profitability is not just a matter of luck. So, give your company a competitive advantage and make a smart and sustainable investment. The added value of our tray formers



Proliner with V-notch/hot creasing unit and Pick, Square and Place feeder.

and window patching machines is based on solid performance, hard facts and worldwide references,” says Gustavo Cuata, Managing Director.

The company produce three different window patchers. They include: WP Speedliner, a single lane machine capable of handling 36,000 blanks per hour; the WPS Proliner (1100mm width) that can produce 72,000 blanks per hour (double stream) with digital setting of the film cutting length; and the WP Master (1100 and 1400mm width) capable of handling 80,000 blanks per hour (double stream). This machine is fully automatic, fast set up, fully servo driven and has a 3 function mode Master feeder.

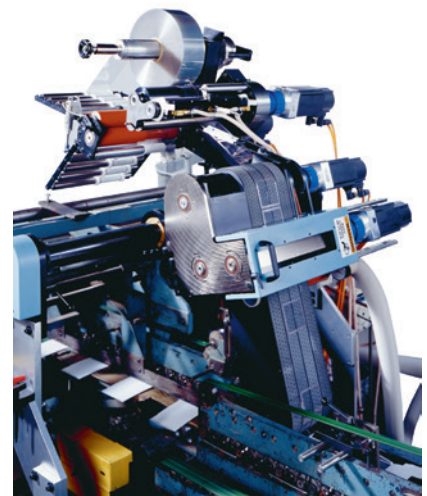
These machines deliver the ideal combination between productivity and ease of use. Each machine provides the opportunity to create a wide range of products through the use of optional equipment. This means flexibility to help cartonmakers keep up with current market needs and trends.

www.heiber-schroeder.com

INLINE WINDOWING

Install the Tamarack Vista on any folder gluer to eliminate offline windowing. With over 60 installations and nearly two decades of inline

windowing experience, installations on Bobst, Jagenberg/Heidelberg, Signature, Omega and many other gluers, is already figured out. Or, if you have several gluers, install the Vista on a Mobile Module to move it to the gluer you need for the job



at-hand with no limit to your options.

Thin films for bakery, thick films for cosmetics, even materials like susceptor patches and carton liners – the Vista does them all. It's easy to add die-cutting for tissue cartons or die-cutting with chip removal for rigid windows. Further to rigid windows, the Vista takes a 3 step process (die cut the window blank, tip the window

blank, then fold/glue) down to a single step process (die cutting and window application at same time as folding/gluing). The Vista's features are the result of years of refinement with the goals of decreasing set-up and increasing speeds. Innovations such as machine-made glue application pads and job saving features keep operators happy. New to the market is the 8" wide Vista with high-performance servo system if speed is the reason you're not windowing inline.

www.tamarackproducts.com

ADHESIVE APPLICATORS

SHUTDOWN OPTIONS

W. H. Leary continues to expand their gluing and detection solutions by offering increased capability with Monet™. New technology advancements include additional folder gluer machine shutdown options, fingerprint-linked language changes and machine downtime reports. Leary's ability to offer a separate shutdown of the gluer or feed allows different machine stop actions depending on the reason. Using the feed stop reduces waste by preventing cartons in the gluer from being thrown away, while machine stops are the best action for faults such as detected jams.

Array™ systems utilising SEQUIRE ID fingerprint access control now have the ability to link an interface language to the operator's fingerprint. When an operator applies his finger to the integrated fingerprint pad on the touchscreen, the language which has been preset for this ID will be immediately used on the Monet screen.

The ability to monitor the effectiveness of these system improvements related to increased productivity is attainable with iQ Smart Services Dashboard module. Downtime reports give an easy



understanding of the reasons why a gluer stops and for how long, with a Pareto style downcode chart. Downtime occurs for a large number of reasons – double fed cartons, consecutive failures, jams and various other operational reasons such as waiting for WIP or maintenance. Analysing these reports can be the quickest way to improve production throughput.

www.whleary.com

FOCUS ON SAFETY

With the automatic filling system for adhesive in granular form, Robatech focuses on safety. The automatic filling system RobaFeed 3 with granulate container GlueFill does not only protect the operator, it also ensures increased line efficiency and cost savings. It protects operators from possible dangers during filling of hot melt systems, maximises system availability and ensures a smooth production sequence.

For Robatech, the safety and health of operators of adhesive application systems are one of the most important company values. Filling a hot melt adhesive system involves a certain risk, as the tank systems can reach temperatures of up to 200°C. When opening the tank for filling, there is a

risk of burns due to adhesive splashing or contact with already melted adhesive. These risks can be avoided with an automatic filling system.



Apart from a moral commitment to protect persons from injuries, there are legal requirements that machines must be safer. Hanspeter Huber, Industry Manager at Robatech concludes, "Safety must be considered starting with the planning phase of a system and across all usage phases. Thus, working with our adhesive application systems should meet all safety requirements, after all – people must come first."

www.robatech.com

65 YEARS EXPERIENCE

Specialising in glue dispensing equipment and quality assurance solutions, Valco Melton offers quality-made products, local support services and more – with over 65 years of experience manufacturing and installing cold glue dispensing equipment around the world.

The company offers the latest in glue dispensing equipment for their 524 valves for cold glue applications featuring an engineered ceramic tip for best performance and the Quick Purge Button for fast uptimes, to the MX hot melt all electric guns with EcoStitch top performance capability.

The company continues to invest in the ClearVision product line with enhanced carton specific vision solution tools by offering WindowChek, BrailleChek, GlueChek, CodeChek and LaserChek.

Easy to use control solutions for both glue and inspection are available for all levels of users from the easy entry MCP range of products to the more sophisticated VCX platform and beyond to the CartonChek Elite controller offering all aspects of quality control from glue to multi-camera inspection designed with compatibility to their full range of products. Make gluing patterns the way you expect them and quality visible to create the perfect carton.

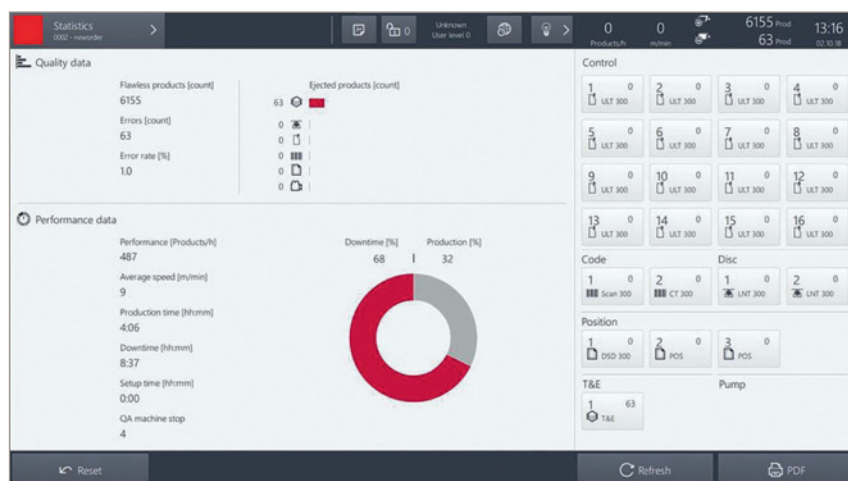
www.valcomelton.com

INDUSTRY BENCHMARK

Baumer hhs has been setting standards in user-friendliness over the last two years with the innovative Xtend³ controller for its modular glue application and quality assurance systems. The intuitive operation of Xtend³ via a 21.5-inch HD multi-touch display has been simplified to where it now resembles the use of a tablet or smartphone. To access the individual functions or switch between different views, machine operators need only swipe the screen or select one of the symbols shown. The intelligent software can be set up to offer operators only those options which make sense in a given situation. From the standpoint of Baumer hhs customers and their machine operators, this innovative operating

concept has one main advantage. They can set up their glue application systems, including the associated quality assurance functions, faster, more easily and more reliably than ever before, while enjoying maximum flexibility at the same time.

Machine operators further welcome the support they receive from the expanded information management features of the Xtend³ controller, such as the short help videos that explain how to set up the application heads and sensors. These easy-to-follow animations help operators to further shorten setup times, which are a key profitability parameter when changing frequently from one job to the next. The videos additionally help to quickly resolve any system disturbances.



Both of these advantages increase machine availability and therefore production efficiency.

The high user-friendliness of the Xtend³ controller is just one of the important improvements over its predecessor, the Xtend². The new controller has also been adapted more extensively to the modular configurability of the glue application and quality assurance systems. Because all the monitoring sensors are digitalised, complex systems can now be reliably and transparently configured on modern

KEEP ABREAST OF WHAT IS HAPPENING IN THE UNITED STATES, EUROPE, MIDDLE & FAR EAST!

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folder gluers, one example being several stations for glue application and quality assurance in the direction of travel through the machines.

Baumer hhs has also expanded the functionality of the Xtend³ controller, most importantly by integrating various camera applications – for instance to monitor complex glue patterns. In manufacturing bottle carriers for the beverage industry, for example, the glue is applied in both line and dot patterns to ensure perfect functioning of the six-packs but minimise glue consumption. With its two cameras, Xtend³ can scan up to 40 glue lines across a width of 800mm, as well as those areas where no glue is to be applied. Furthermore, the two-camera system can inspect folds and flaps. Packaging producers thus have access to any number of options for meeting the demands of complex applications with even more flexibility.

The cameras and glue patterns are likewise set up via the graphical user interface with intuitive user prompting. Automated set-up procedures ensure that the various parameters adhere to a fixed layout for all print products on a single sheet. Operators can store settings for individual jobs and access them at any time should the same job come up again later on.

Finally, Baumer hhs has integrated all the functions of the universal, camera-based Xcam MF1 inspection system in Xtend³. In packaging production, this system fulfils a very wide range of control functions – and is likewise very simple to operate. With these functions, manufacturers can, for example, monitor a variety of codes, such as Data Matrix Codes, QR Codes or UPCs, and check fold alignment or the position of package inserts in the X and Y directions.

Virtually at the same time as the Xtend³, Baumer hhs also launched another innovation – the DPP8 double-piston pump which enables customers to achieve a new level of adhesive

application with maximum ease of operation. The pump's electronic operation allows precision pressure management, making a material pressure regulator superfluous. Before, high pressures had to be generated in the feed pumps and then reduced again by material pressure regulators. In contrast, the DPP8 generates only the pressure required at any given production speed to maintain a continuous flow of glue. It therefore prevents the glue from being exposed to extremes, delivering it to the application heads at the viscosity specified by the manufacturer. Especially with sensitive adhesives, this can make a critical contribution to improving gluing results. What is more, electronic control and the elimination of the material pressure regulators significantly reduces maintenance requirements.

Colour displays show machine operators the status of the double-piston pumps at all times. Their controllers can calculate glue consumption per job to within an accuracy of +/- 5% – a particularly useful function for analysing costs and preparing for subsequent jobs.

The expanded statistics and analysis options of the Xtend³ controller helps converters to meet the constantly rising demands imposed on quality and efficiency in carton production, regardless of whether they are in the pharmaceutical, cosmetic, food, beverage or any other industry. In short, with both the Xtend³ controller and the DPP8 double-piston pump, Baumer hhs once again underscores its position as a leading global partner for glue application and quality assurance.

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