The future of Manufacturing Execution Systems in the pharmaceutical industry
In the global competitive environment, “time to market” has become a decisive factor for success in the pharmaceutical industry. The requirements include not only shorter cycle times in production. The increasing complexity of the market, the trend towards individualised therapies and the networking of production sites demand a powerful data and quality management system, not only within a manufacturing plant but also between sites and along the entire value chain. The goal must be the optimisation of the entire supply chain, with significant improvements in production costs and GMP compliance. To meet these requirements – to bring new products quickly to market, to get everything right first time – and to satisfy the wish for paperless documentation, powerful Manufacturing Execution Systems (MES) are essential. On the path to industry 4.0, intelligent data management is a fundamental building block.

In this issue, I am pleased to introduce you to our new colleagues at Werum IT Solutions AG. Werum is the leading supplier of Manufacturing Execution Systems (MES) for the pharmaceutical and biotechnological production of medicines. Through its integration into the Medipak Systems Group, we are extending our expertise in the areas of production monitoring and control and monitoring, enabling us to provide fully integrated solutions.

The pharmaceutical market in Brazil is enjoying uninterrupted growth. EMS, a customer of Medipak Systems, is a very good example of the unstoppable development of this market. At the main production site in Hortolandia, high-performance Mediseal blister lines form the basis for cost-effective, flexible production.

Interpack 2014, the world’s most important trade fair for processes and packaging solutions, is in the offing. At the beginning of May, the Medipak Systems companies will again be presenting the latest developments in the manufacturing, inspection and packaging of pharmaceutical products on a joint stand. In addition to the latest TopLoading cartoner NeoTOP x from Dividella, which will have its world premiere at Interpack, Seidenader will be presenting its new inspection machine in the CS series. You will also be able to make the acquaintance of Werum and its MES portfolio on our stand. On the following pages you will find all the news and learn more about our trade fair appearance.

I cordially invite you to visit us personally from the 8th to the 14th of May at Interpack in Düsseldorf!

My very best wishes,

Gerhard Breu
Werum: Complementing and adding to the Medipak Systems Group

“We are pleased to be able to expand our MES activities, an important market of the future, with Werum – a company with excellent technological expertise and a high reputation among customers around the globe.” This was the welcome for the software company to the Group from Richard Bauer, the Chairman of Körber AG, in February.

We’d like you to meet …

Rüdiger Schlierenkämper
Management Board (CEO)
Werum IT Solutions AG

Rüdiger Schlierenkämper has been a Board member at Werum since 2007 and is responsible for MES Operations Division. He joined Werum in 2000 and has consistently grown the pharma MES business internationally, successfully expanding US operations in particular. A graduate mechanical engineer, he has many years of experience in the pharmaceutical industry. For example, he spent 14 years in management positions at Fette Compacting, a leading manufacturer of tablet presses. Rüdiger Schlierenkämper is married and has two children.

Hans-Peter Subel
Management Board
Werum IT Solutions AG

Hans-Peter Subel has been a Werum Board member since 2001 and heads up the MES Development and Quality Management Division. The IT graduate has been with the company since 1980 and initially focused on software development environments. Later, he led the development of software systems for the support of processes in production. As a Board Member, he has shaped Werum into one of the world’s leading pharma MES providers. Hans-Peter Subel is married and has one child.

Further information on our software product PAS-X:
www.pas-x.com

Software and process expertise in the pharmaceutical industry

Today we would like to introduce you to Werum IT Solutions AG (formerly Werum Software & Systems AG) and outline the future possibilities of cooperation with Medipak Systems.

Werum, with its head office in Lüneburg, is the international leader in the supply of Manufacturing Execution Systems (MES) for pharmaceutical and biopharmaceutical production. Its software product PAS-X is in use worldwide at 17 of the top 30 pharma and biotech companies, in more than 700 installations. The company employs a total of approximately 400 employees at ten locations in Europe, the USA, Japan and Singapore. Since it was founded 45 years ago, Werum has grown continuously and since the early 1990s has specialised in software for pharmaceutical and biotechnology companies.

Werum provides its customers with a total package comprising the software product, pre-configured content and comprehensive services out of the box. PAS-X is a mature standard software product which includes all the essential MES functionalities needed for the production operations of the pharmaceutical and biotech industry.

PAS-X covers all phases of pharmaceutical and biopharmaceutical production – from process development through production of clinical samples to commercial production and packaging. It supports all kinds of pharmaceutical manufacturing technologies and filling and packaging.

Growing together: Solutions from a single source

“Medipak Systems and Werum complement each other perfectly and will exploit sustainable growth opportunities with their strong common customer base. Apart from the continuation and advancement of Werum’s currently successful MES business, the goal is to jointly provide customers with new and unique products and with integrated solutions from a single source”, says Gerhard Breu, CEO of Körber Medipak Systems GmbH. “In particular, in addition to the Seidenader TQT Division, our customers will be able to benefit from the software development and line management resulting from cooperation.”
In addition to new machines and technological highlights, the companies in the Medipak Systems Group are presenting integrated solutions for the international pharmaceutical and biotech industry – featuring MES, inspection, packaging and traceability from one and the same source.

**SOLUTIONS INSIDE.**
**Medipak Systems at Interpack 2014**

In addition to new machines and technological highlights, the companies in the Medipak Systems Group are presenting integrated solutions for the international pharmaceutical and biotech industry – featuring MES, inspection, packaging and traceability from one and the same source.

**NEW: NeoTOP x from Dividella – extended format range for greater flexibility**

The new TopLoading NeoTOP x cartoner offers the possibility not only of adapting the packaging line to different cardboard formats but also of packaging individual products as multipacks (up to 100 items). Possible pack sizes extend to 60 to 260 mm in length, 45 to 200 mm in width, and 17 to 120 mm in height.

The variants for feeding-in different items have once again been expanded and offer additional benefits in terms of flexibility. Format changes can be carried out, without any tools, in less than 20 minutes. Dividella provides the proof on its stand. Join us live for a format change and be convinced! You can read more about the new NeoTOP x on page 10.

**At a glance:**

Werum is the leading provider of software for production control and production monitoring for the pharmaceutical and biopharmaceutical industries.

Werum employs more than 400 people at 10 locations around the world.
All the exhibits at a glance:

Divibella
- NeCTOP x – the latest TopLoading cartoner with an extended format range

Mediseal
- CP400-Pre600 – a reliable blister line for standard applications
- CP8 – a thermoform blister machine for packaging syringes
- LAtso – a sachet machine for smaller production environments
- Containment solution for high-potency solids

Rondo
- Special and standard packaging concepts, including solutions for Tamper Evidence, child safety, compliance and serialization

Seidenader
- Seidenader CS – a fully automated inspection machine for liquid or freeze-dried parenterals
- Vgoo+ visual inspection for parenterals
- Track&T&Trace and serialisation solutions

Werum
- PAS-X – Pharma Manufacturing IT

Werum: MES for pharmaceutical and biotech companies
Werum offers a total package out of the box, comprising the software product, pre-configured content and comprehensive services. PAS-X is a mature standard software product which includes all the essential MES functionalities needed for the production operations of the pharmaceutical and biotech industry. PAS-X covers all phases of pharmaceutical and biopharmaceutical production.

Seidenader T&T Solutions: a modular approach for maximum flexibility
Seidenader’s new Track&T&Trace software has a consistently modular structure. Depending on the customer’s needs, the solution for the essential tasks (serialisation, aggregation, rework, production data acquisition) is assembled.

The high proportion of standard components, automated configuration and modular design significantly reduce development and roll-out times, and therefore line downtime. For detailed information, turn to page 17.

Rondo: Tamper Evidence
Rondo’s patented folding box with Tamper Evidence not only provides protection from manipulation of the packaging but is also extremely economical, because no additional sealing material such as labels or glue is needed.
The solution is based on the principle of pre-stamped cut-outs in the lid flap and the underlying dust flaps, which mesh together after activation on the packaging line. Turn to page 21 for more information on the implementation of the EU Directive.

Mediseal: Safe packaging for solids
Among other things, Mediseal will be presenting a complete packaging line, consisting of a CP400 blister machine and a cartoning machine for packaging tablets. Mediseal will also be showing its innovative containment solution for the safe packaging of high-potency solids. Using the example of a successfully installed system, prospective customers can experience the advantages of customised system design.

NEW: High-tech inspection on a smaller machine platform
Seidenader is presenting its new Seidenader CS, a fully automated inspection machine incorporating the latest technologies, even for smaller production lines. The CS has been designed for the inspection of liquid or freeze-dried parenterals at a speed of up to 24,000 containers/hr. Customers benefit from the same features as the larger Seidenader models in the MS or VI series.

At Interpack, Seidenader will be presenting the CS with integrated high-voltage leak detection (HVLD).

Visit us at Interpack in Düsseldorf, May 08 – 14, 2014
Hall 16, Booth A25

Register online and secure your entry voucher at www.medipak-systems.com/en/interpack2014
Everything is in motion. In the past few years, there have been countless innovations in the area of IT, new materials and technologies. The machinery sector too is affected by this. The industry demands equipment which is highly versatile, in the context of a growing market and increasing segmentation. How can the efficiency of an installation (its OEE) be increased whilst taking into account all product specifications? Also, how can the quality of technical service be improved? In short, how can machines become faster, simpler and more user-friendly? The pharmaceutical industry, itself undergoing a fundamental change, demands fast but high-quality processes, which meet both legal and economic requirements, not to mention those of patients. The key driving forces of the market are clear: price pressure, compliance with statutory standards (GMP), versatile equipment, flexible technological production and packaging processes and intelligent logistics.

Reacting flexibly to market requirements – with packaging solutions that are geared to the future

Dividella’s more than 30 years of experience in the development and production of packaging machines for pharmaceutical companies combines both a detailed knowledge of the market and an understanding of the value creation process of its customers. With this knowledge and the well-established, intelligent NeoTOP concept, Dividella provides solutions for the pharmaceutical market’s current and future requirements. The basic principle of the NeoTOP packaging lines is the modular system – automated and semi-automated modules are individually adapted to customers’ needs. This is done in many different ways. It means that the lines are ideal for packaging pharmaceutical products such as vials, syringes, injectors, auto-injectors, blisters and inhalers. Thanks to the flexible packaging concept, an existing line can be adapted to new products in the course of its life cycle. In this way you protect your investment.

New, yet tried-and-tested by many customers – innovative features on the NeoTOP x

In a spirit of proactive initiative, Dividella has now extended its NeoTop family with a new packaging line. The NeoTOP x or NT x offers even more flexibility and variety. The new model fits in seamlessly with the existing product family, with its expandable and adaptable modules. Now customers have the option not only of adapting their packaging line to different box formats, but also of reacting quickly and flexibly to changing market requirements and packaging both individual products and multipacks (of up to 100 items). Possible pack sizes extend to 60 to 260 mm in length, 45 up to 200 mm in width, and 17 to 120 mm in height. The possibilities of feeding in different items have once again been expanded and offer additional advantages in terms of flexibility. Format changes can be carried out without tools and in less than 20 minutes, using format parts that are lighter, more compact and more durable than ever before. Production capacity is 30-50 packs per minute.

**Next generation**

**TopLoading cartoner**

Dividella’s new, innovative NeoTOP x packaging line is consistently targeted at the requirements of the pharmaceutical industry.
The flutes can be inserted crosswise as an option, and the maximum number of flutes has been increased to 6. This allows even greater flexibility for the packaging solution and product protection. The flutes – as with earlier NeoTOP solutions – are glued in place during the packaging process. The NeoTOP x is equipped with the latest automation system. To make the machine even more user-friendly, the HMI has been equipped with an intuitive, graphical user interface. An optional module can print the flat cardboard blank, attach labels in any position and apply Braille text before the blanks is passed inline to the erecting module (White Line Technology).

Many new features of the NeoTOP x aim to increase the number of products in a pack and at the same time to reduce the volume of packaging. This is a decisive cost argument for all pharmaceutical products which require cold-chain distribution. In addition, a high level of protection of the valuable products from breakage and other effects is provided – independently of the means of transport. Looking at overall costs, this leads to the lowest TCP (total cost of package). Dividella is presenting the new NeoTOP x for the first time at Interpack 2014 in Düsseldorf. We invite all interested persons to come along to our stand and be convinced of the advantages of the NeoTOP x. Enjoy the live experience and see how quickly and easily format changes can be carried out.

At a glance:
- An enhanced, flexible and modular platform can be configured for a wide variety of cardboard packaging
- Extensive feeding solutions for syringes, vials, pens, injectors, inhalers, needles, blisters and sachets
- Wide format enables packaging of single units up to multiple packs on one machine
- Quick format change, requiring no tools, in less than 20 minutes
- Highest performance for a low TCO (total cost of ownership)
- Dividella's digital handwheels with position feedback for easy format changes, high process reliability and fully automated option
- HMI with intuitive graphical user interface – the latest generation of automation system
- Small, easy to handle format parts

Visit us at FCE Pharma in São Paulo, Brazil, May 12 – 14, 2014
Maquidrex Booth C10

Mediseal will display its blister line CP400-P3200
João Furtado: For EMS, the local market in Brazil is still the main market. With 200 million inhabitants, a growing middle class and an improving quality of life and thus greater life expectancy, EMS, since it has grown, is generating the biggest sales in the market. Nevertheless, EMS is also preparing for the future and is expanding, in terms of both products and also geographically with locations in Brazil, but also with a small production facility in Portugal and soon in Latin American countries.

João Furtado: Hortolandia is our largest site and was significantly expanded just two years ago. A total of 150 million reals (approx. 50 million euros) will be invested in the expansion in the next six months of manufacturing and packaging capacity, from 500 million to 1 billion tablets. Glimepiride, Carvedilol, Gerovital and Apetivin are the main products manufactured here.

João Furtado: Logistics is the key factor for 24-hour around the clock production. Any machine downtime has a major effect on the monthly production volume. This is why we have strict production controls and short response times in emergencies. Our production philosophy allows no downtime for repairs, so robust and reliable equipment, together with our well-trained personnel, is a prerequisite for our continued future growth.

EMS was able not only to install stable and high-performance packaging lines which keep pace with the strong growth but has also found a strong partner who solves any problems which arise quickly and simply. Despite many format changes, the OEE of the entire installation has increased significantly.

João Furtado: The key features were the high output and the flexibility of the line. Also, 7 Mediseal lines are in operation with one of our most important Brazilian competitors – but the smaller CP400 version, and we wanted more, we wanted to be the biggest. The CP600-P3200 was the right answer to help us achieve our goal.

João Furtado: We launched an open tender, inviting several companies to take part. The decision-making criteria were both the technical aspects and the quality of the machines, but also the references in the Brazilian market and the service after the installation of the machine.

In Brazil, Mediseal enjoys an excellent reputation: the name stands for both excellent service and well thought-out and reliable packaging solutions. The ability to appreciate our work philosophy and to work always on the best solution for the customer has convinced us to understand our “parceria” (partnership) as a genuine relationship between two partners who grow together. Mediseal’s s way of thinking fits on with our own: they are successful if we are successful as a customer. If we grow, Mediseal too will grow.

João Furtado: The key features were the high output and the flexibility of the line. Also, 7 Mediseal lines are in operation with one of our most important Brazilian competitors – but the smaller CP400 version, and we wanted more, we wanted to be the biggest. The CP600-P3200 was the right answer to help us achieve our goal.

João Furtado: We are an owner-managed company with short lines of communication and decision-making procedures. So we decided very quickly, once we had seen the technical details of the quotations. We compared three large and well-known suppliers – Uhlmann, IMA and Mediseal. In the end, Mediseal offered the best value for money and the best approach to meet our needs.
**João Furtado:** We started off cautiously because both companies had to get used to the ways of working and thinking of the other. We were dealing not only with two companies but with two different cultures. But, Mediseal has shown that a “German” company can adapt without any problems to the Brazilian way: grow quickly, act quickly, be flexible. EMS is a reputable and professional company, so we did not find it hard to adapt to German standards. Overall, we have developed very strongly and very well, with the common aim of overcoming the bureaucracy and the complex import regulations.

**factual:** And what were the first experiences after the line was installed? Did production change?

**João Furtado:** Initial experiences were very good. We bought one line first to see whether the promised capacities could be achieved. After a satisfactory production start-up, two years later we bought a second line. This allowed us to carry out a detailed analysis of start-up, production stability and actual change-over times. Given our 3-shift production system, it was a very decisive advantage that only minor difficulties arose with individual parts of the machine. Intensive training of our employees also had a positive on efficiency. We therefore decided to invest in three more Mediseal blister lines. The last CP600 P3200 will be installed in the 3rd quarter of this year.

We have increased our production capacity significantly – nearly doubled it – and also save time on the frequent format changes. The next goal is to further improve OEE and to create resources internally to solve internally any problems which arise. This 6th line gives us the flexibility to train operators and engineers more intensively.

**factual:** From your point of view: In what ways can Mediseal continue to improve?

**João Furtado:** Mediseal is a strong “parceiro” (partner) for EMS and I’m sure that if Mediseal continues to do such a good job we will continue to grow together in the future. A few years ago, your CEO Gerhard Breu visited me and I showed him the “green field” site directly behind our building and said here you see a state-of-the-art pharmaceutical production facility. That was 2 years ago and now our main production is in this new building and the Governor of São Paulo inaugurated production last year. This year, we will achieve a volume of 1 billion packaged tablets per month. And yet – EMS wants more.

**EMS S.A.**

- Employees: 5000
- Turnover: 6 billion reals
- Sites: Hortolandia, Manaus, Brasilia, Jaguariuna
- Brands: Gerovital, Apetivin, Naridrin

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**THE CUSTOMER**

**Standardisation meets modularisation**

In their commitment to combat product piracy and to improve patient safety, pharmaceutical companies worldwide are focusing on consistent identification and traceability of medicinal products. To do this, they integrate Track&Trace-Systems into existing packaging lines. In addition to patient and product safety, today and in the future essential statutory regulations can be complied with.
Decision-making criteria for companies are the ability to integrate the solutions, flexibility in identification and verification, plus high equipment efficiency. Seidenader Track&Trace-Systems combine flexibility and standardisation for the greatest possible stability and reliability.

The classic case: a drug manufacturer wants to integrate a serialisation solution into its existing packaging line. The functionality of another line is to be extended, involving additional serialisation and aggregation tasks which have to be solved.

In addition to the expandability of the Track&Trace solution, the drugs manufacturer places particular value on stable, reliable, and proven software. This has to be easily maintained and further developed on a regular basis. In addition to flexible adaptation to his individual requirements, he is looking for a solution that perfectly matches his packaging line and which can be operated, with a manageable time spent on training, by different personnel, who change often. The implementation time, and thus the downtime for the entire line, must be as short as possible.

Stable customer-specific solutions are developed to meet the standard

For more than five years, with its Track&Trace solutions, Seidenader have been successfully supporting global pharmaceutical groups with large, multi-site rollouts. The company now provides its customers with this know-how in the form of a modular software solution. The ability to react flexibly to specific customer requirements remains in the foreground. Proven solutions have been developed into standard modules, allowing Seidenader to minimise the cost of integration. Costs for maintenance were able to be reduced as a result and further development simplified.

High recognition capability and consistency ensure flexibility in operation

In the ongoing development of the software, the focus was on consistency of the operating concept over the entire production line. The operating concept has been optimised for the machine operating concepts of other companies within the Medipak Systems Group. The user interface is adapted to the corporate design for software applications within the group. The high recognition effect, especially when Seidenader Track&Trace software solutions are used in sister company installations, has distinct advantages. The initial training of machine operators and the training costs for extending the solution are minimal. Frequently changing operating personnel can be trained quickly on different stations. Administrative activities are considerably facilitated by fully integrated function modules such as the user, recipe and print image management system. They allow centralised data management within a line and provide the operator with all relevant information for the individual operations.

More solutions – less complexity

Seidenader’s new approach maintains the benefits of the existing solution and consistently enhances it. The standardised software has a strictly modular design. The software components have a clearly defined functionality, optimised for the core processes of Seidenader’s customers, and can be individually combined to achieve optimal results. Their use at different serialisation and aggregation levels and their proven application by different customers guarantee high overall software stability. Special customer requirements outside the scope of the modules are met using automated, template-based configuration processes. In this way, manual configuration and project-specific software implementation are reduced, whilst maintaining the essential flexibility of the software. The high proportion of standard components, automated configuration and modular design have the significant advantage of significantly reducing development and roll-out times, and therefore line downtime.

The first projects for customers this year are proceeding apace

In the future, the new modular approach will be applied to all Seidenader’s solutions for product identification and product traceability. The Line Controller and Item Expert products have already been realised; further products are in the pipeline. In the first customer projects going into production this year, the new software is already installed.

In brief, Seidenader offers its customers standardised, highly modularised software which additionally allows maximum freedom for flexible, customised solutions. In this way, secure, effective and reliable use of Track&Trace solutions can be guaranteed.
Counterfeit drugs are a global problem and not only lead to significant losses for the pharmaceutical industry but above all put the health of patients at risk and undermine their trust in medicines.

Rondo Tamper Evidence – protection from manipulation plus cost-effectiveness

The WHO estimates that approximately 1% of all medicines in Western countries are counterfeits. This proportion rises to 30% in so-called emerging markets. According to the WHO, more than 50% of the medicines available on the internet are not original products. In June 2011 the European Union responded to these abuses by adopting Directive 2011/62/EU. Demand from pharmacists for products with safety features and/or tamper evidence will increase in the next few months. Rondo is prepared for this challenge.

Implementation of EU directive 2011/62/EU

The Rondo folding box with tamper evidence implements European Directive 2011/62/EU (the Falsified Medicines Directive, FMD) which comes into effect in 2017. By then, within the European Union, all secondary packaging which contains prescription drugs must be provided with a feature which makes tampering or an attempt at tampering with secondary packaging detectable. If an attempt is made to open the pack not in the intended manner and to close it again, the applied tamper protection must make the tampering clearly visible in the form of an irreversible change to the original state of folding box. Right now, the Rondo folding box with tamper evidence provides an extremely attractive solution.

The modular approach

Seidenader’s new Track&Trace software has a consistently modular structure based on standard components. Therefore customer specific adoptions can be reduced to a minimum. The following products are available to perform serialisation, aggregation, rework, production data acquisition:

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### Multi Line Manager
- Central management of serial numbers for serialisation projects
- Central user management across multiple lines
- Central order management across multiple lines
- Central recipe management across multiple lines
- Interface with the customer’s enterprise resource planning (ERP) system

### Line Controller
- Central batch management of the line
- Distribution of batch data to all units in the line
- Central collection of information from all units within the line (batch data, error messages, diagnostic report, etc.)

### Item Expert
- Identification of individual products:
  - Allocation of batch data such as serial number, date of manufacture and expiry date for printing
  - Verification of printed or written data
  - Serialisation

### Bundle Expert
- Reading item serial numbers
- Bundle serialisation
- Allocation/aggregation

### Case Expert
- Reading bundle serial numbers
- Case serialisation
- Allocation/aggregation

### Pallet Expert
- Reading case serial numbers
- Pallet serialisation
- Allocation/aggregation

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Economical and efficient: Rondo folding box with Tamper Evidence

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Mr. Alexander Schulgowski started his position as Area Sales Manager at Dividella AG in Grabs on February 1st, 2014. In his position he will be focusing, amongst others, on the Russian and Ukraine markets. He brings along broad know how and experience in sales and business development for B2B companies. The last seven years he worked for BAR-TEC Group as Vice President for Russia and Eastern Europe.

Mauro Zordan
Area Sales Manager
Seidenader

On December, 1st 2013 Mauro Zordan started his position as Area Sales Manager at Seidenader. He is responsible for Italy, Italian-Switzerland, India, Pakistan and Bangladesh. He is located in Vicenza (Italy). Previously Mauro Zordan worked for Brevetti CEA S.p.A. and has a long-term experience in B2B sales.

Christian Pantel
Area Sales Manager
Seidenader

As of January 2014 Christian Pantel took over the position of the Area Sales Manager for the regions Maghreb, South and East Europe and the Middle East. He joined Seidenader in December 2001 and was working in the recent 6 years in project management.

Wido Schoeler
Area Sales Manager
Seidenader

Wido Schoeler joined Seidenader in September 2013 as Area Sales Manager for France, Benelux and Denmark. He comes from Eisai Machinery GmbH and has excellent know-how in both technology and market. Wido Schoeler studied mechanical engineering and business administration at Cologne University of Applied Sciences.

The traditional solutions – labels and stickers

Currently, there are two main solutions in use to protect folding boxes from tampering. One works with sealing labels which may also have a hologram, and which can be stuck over the flap of the box. The labels involve costs of acquisition and management. Application of the labels in the packaging line reduces the line speed and hence productivity and profitability. In addition, labels also do not provide adequate protection from tampering, as in some cases they can be removed or cut off without leaving any residue. A second, common method to make the folding box tamper-evident consists of direct bonding of the opening flap. Tamper protection with this method is far higher than with labels. In economic terms, however, this solution too has some disadvantages. The manufacturer needs an additional device to apply the glue which has to be integrated into the packaging line and which involves investment costs. In the packaging process, the gluing process adversely affects the productivity of the packaging line.

Rondo Tamper Evidence – a big impact at low cost

Rondo’s patented folding box with Tamper Evidence not only provides protection from manipulation of the packaging but is also extremely economical, because no additional sealing material such as labels or glue is needed.

The solution is based on the principle of pre-stamped cut-outs in the lid flap and the underlying dust flaps, which mesh together after activation on the packaging line. The mechanism is activated by metal pins integrated into the line; they are downstream of the sealing unit and do not affect packaging speed. When the box is opened, the forces created by the interlock tear at the breakpoints of the lid cut-outs and rip them out. As a result, initial opening is clearly and irreversibly recognisable.

Advantages of the Rondo solution

- The blanks can be erected, filled and sealed on the existing packaging installation.
- Output is not affected by the Tamper Evident solution.
- The folding box can closed again after initial opening.
- The printed design does not have to be altered, because no intrusive labels impact on the printed surface of the folding box.

We’d like you to meet …
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