

INSIDE

- 01 From the Founding Members of ICPMA ...
- 03 Introducing Smart Factory and Smart Manufacturing Principles to Prioritize for Best Results
- 04 ABB launches newest generation of L&W Bending Tester
- 04 SinoCorrugated 2023 now scheduled for July in Shanghai

- 06 Valmet launches a zero effluent system for enzymatic starch cooking for board and paper makers
- 09 BHS Corrugated breaks ground in India
- 11 How New Technologies Change Motion Control in Packaging
- 15 New Side Seam Gluing solution replaces glue wheel units
- 16 The Biggest Packaging Industry Trends for 2023

12 MESSAGE

Mr. Vineet Jain
President (FCBM)



09 INTERVIEW

Mr. Manish S. Shah, VP (ICPMA)



ICPMA

INDIAN PAPER CORRUGATED & PACKAGING MACHINERY MFGRS. ASSOCIATION

From the Founding Members of ICPMA ...

HISTORY – Formed in 2014 ICPMA was started when around 8 Corrugated Packaging Machinery Manufacturer joined hand in New Delhi & formed a strong association.

ICPMA AIMS – As our main aim of the association is to upgrade all of us the new technology of advancement in our industries. So, that we also be a part of highly developed international market, like Europe and America.



Over a period of time ICPMA has grown in Size and strength and has emerged as a voice of the Indian Corrugated Packaging Machinery Industry.

VISION & MISSION – ICPMA is the leading global resource for the Corrugated Packaging Machinery manufactures supply chain. Our core purpose is to unite the industry across the manufacturing supply chain. We connect people knowledge and ideas and equip you to succeed in the global market place and navigate the future.



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K.M. MACHINES



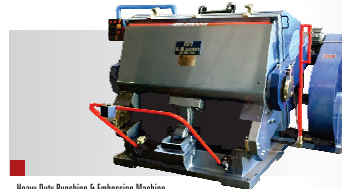
Complete range of **CORRUGATED BOX MAKING MACHINES**



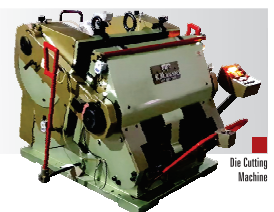
Fingerless Corrugating Machine



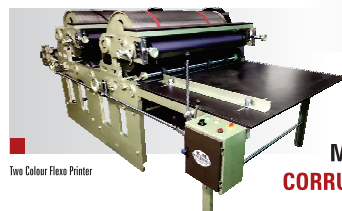
Double Profile Corrugating Machine



Heavy Duty Punching & Embossing Machine



Die Cutting Machine



Two Colour Flexo Printer

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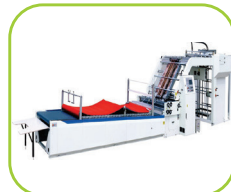
Board Printer Roller
(Printer - Slotter)



Anilox Roller



Lead Edge Feeder Roller



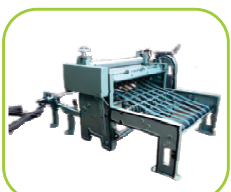
Flute Laminator Roller



Thin Blade Rotary Roller



Flexo Printing Roller



Sheet Cutting Roller



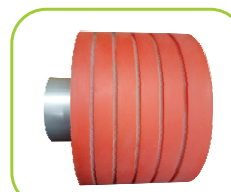
Sheet Pasting Roller



Offset Printing Roller



Gum & Doctor Roller



Feeder Wheels



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From the EDITOR

Introducing Smart Factory and Smart Manufacturing Principles to Prioritize for Best Results

Many decision-makers are getting on board with the smart factory and smart factory manufacturing trends. Still, they sometimes lose sight of what it means to run highly advanced facilities and bring production methods into the future. Here are some principles people should pay attention to before, during and after implementing an Industry 4.0 factory.

Let Data Drive Future Actions and Decisions

People who pursue smart factory and smart manufacturing options with the most success often realize the importance of gathering and using data. These advanced facilities usually have tremendous levels of connectivity. That means most of the infrastructure probably exists that allows people to gather real-time information. However, just having the data available is not sufficient. That's only the first step.

It's also necessary to proactively analyze the data. That becomes easier once the information is structured and accessible. Some companies also use supporting technologies, such as

...continued page 13



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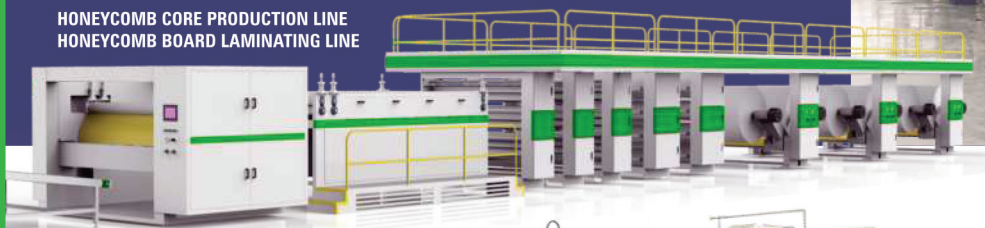


3/5/7 PLY PAPER CORRUGATED PRODUCTION LINE

CORRUGATED CARDBOARD & BOX MAKING EQUIPMENTS

3/5/7 PLY PAPER CORRUGATED PRODUCTION LINE | 4/5/6 PLY KAPPA BOARD PRODUCTION LINE
HONEYCOMB CORE PRODUCTION LINE | HONEYCOMB BOARD LAMINATING LINE

HONEYCOMB CORE PRODUCTION LINE
HONEYCOMB BOARD LAMINATING LINE



4/5/6 PLY KAPPA BOARD PRODUCTION LINE



3/5 PLY FULLY AUTOMATIC FLUTE LAMINATING MACHINE



CASSETTE TYPE SINGLE FACER



SINGLE FACER PAPER FINGERLESS CORRUGATING MACHINE



AUTOMATIC PRINTING, SLOTTING, CREASING, DIE CUTTING, STACKER WITH LEAD-EDGE FEEDER.

ABB launches newest generation of L&W Bending Tester

ABB has enhanced its L&W Bending Tester with new features to deliver easier and more reliable operator-independent bending resistance and stiffness measurements.



The L&W Bending Tester, which measures resistance to bending in paper and packaging, is a standalone benchtop instrument featuring a large touchscreen with user-friendly interface and improved post-processing for ease-of-use and instrument check and calibration. Integration with other ABB offerings, such as L&W Lab Management System (LMS), also means connectivity to the full Quality Data Management module within the larger Manufacturing Execution System (MES), enabling greater visibility of quality data across the mill and enterprise.

The new features aim to address the pain points faced by lab and quality managers in mills to ensure optimised bending properties from accurate resistance and stiffness testing, important in the handling and protection of packaging products. Low bending resistance/stiffness can cause runnability issues during printing of paper, foldability issues during converting of board into packaging boxes, and stackability issues during handling and storage of packaging boxes. Accurate measurement of bending properties is therefore critical to ensure specifications are met and these issues avoided, which in turn will improve productivity and costs.

Several new features enhance the ease-of-use for operators and help them to overcome challenges associated with older, complex or difficult-to-operate instruments:

- A test piece is clamped automatically and precisely with a support for easy sample loading, aiding the operator and leading to a repeatable measurement process;
- A new ergonomically placed start button is pressed, and the testing sequence starts automatically with an improved auto-touch function;

- A large touchscreen with customizable programs, options for instrument check and calibration, and adjustable testing speed and bending angle makes it easy for the operator to select the right options and program settings.

In addition, bending length is automatically detected, which ensures the correct settings are selected every time. On-screen results include an overview of the measurement series and a graphical display of the bending curve with break angle/force. Notably, this model also accommodates bending lengths as short as 1mm or as long as 50mm.

<https://www.thepackagingportal.com/>



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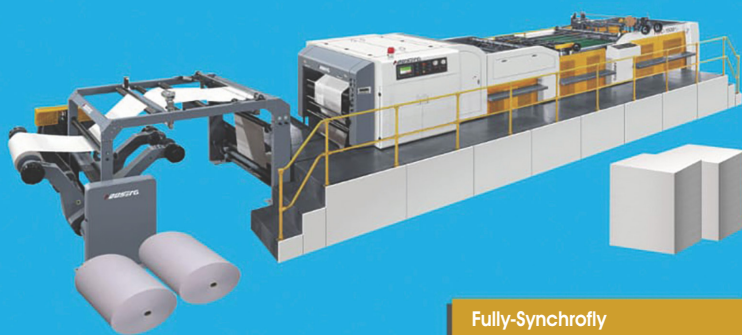
SinoCorrugated 2023 now scheduled for July in Shanghai

RX has confirmed that WEPACK 2023, along with its series exhibitions SinoCorrugated 2023, is scheduled to be held on 12-14 July at National Exhibition and Convention Center (Shanghai).

“The new exhibition venue and new date are arranged for a better reunion,” says Patrick Gu, International Sales and Marketing Manager, RX. “We are grateful to the exhibitors, visitors and partners who have given us company, understanding and patience. We will bear in mind the shared trust and responsibility in the past 20 years. We will continue to keep close contact with the industry suppliers at home and abroad, packaging plants and all walks of life and update the latest news of the industry and exhibitions in time, in hope of presenting an efficient and high-quality gala event in 2023.”



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2. Genus, Muzaffarnagar- UP, 4 Nos
3. Millenium Papers, Morbi - 1 Nos
4. Edicon Papers, Morbi - 1, Nos
5. Indian Printers - 10 Nos
6. Ambani Papers LLP - 4 Nos

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Bursting Strength Tester Microprocessor Based



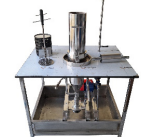
Basis Weight Valve



Photovolt Brightness Tester with Printer



Manual Sheet Former with Table



Tensile Tester (Vertical) Microprocessor Based



SPS Tester (Bendsten)



Palm Sensing Assembly



Digital Stiffness Tester



Technibrite Type Brightness (Opacity Color Tester)



Pneumatic Die Punch Cutter



Photovolt Type Brightness Opacity & Gloss Tester (Microprocessor Based)



Digital Ply Bond Tester





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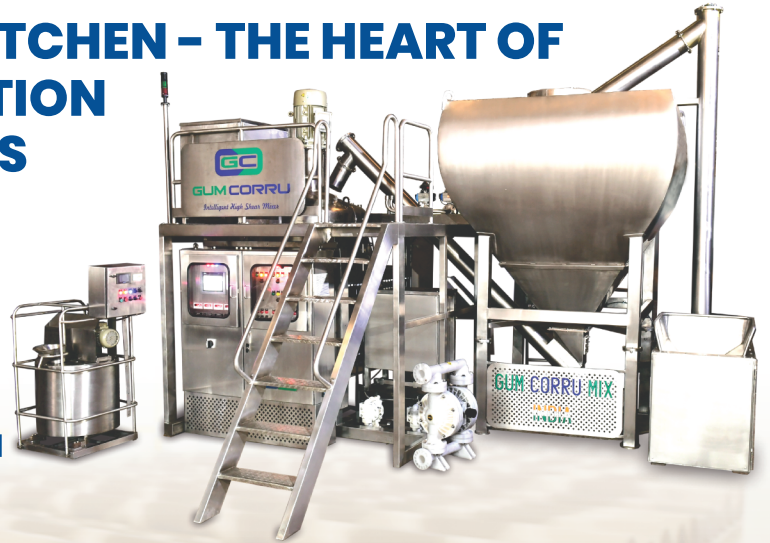
INTEGRATED AUTOMATIC CORRUGATION GUM CIRCULATING SYSTEM

Advantages

- Improved Product Quality
- Reduce Consumption of Product
- Low lumps formation
- Stable Viscosity, Consistence Product
- Low Labor cost
- Low wastage in handling & transferring
- Low Maintenance
- Easy operation

Features

- Compact Design
- Total Controlling Panel with timer
- Easy Operation
- Sturdy SS square pipe frame mounted unit
- Level controller



INTEGRATED AUTOMATIC CORRUGATION GUM CIRCULATING SYSTEM

COLD GUM MIXING MACHINE



Advantages

- Improved product quality
- Reduce consumption of product, usage at safety margin glue application
- High shear homogeneous mixing efficiency
- Stable viscosity, consistence product
- Low cost
- Low labor cost
- Low wastage in handling & transferring

Features

- Compact design
- Low maintenance
- Easy operation
- Sturdy heavy fabricated unit
- High shear homogenous mixing agitator
- Standard make electric motor



Advantages

- Improved Product Quality
- Reduce Consumption of Product
- Low lumps formation
- Stable Viscosity, Consistence Product
- Low Labor cost
- Low wastage in handling & transferring
- Low Maintenance
- Easy operation

Features

- Compact Design
- Total Controlling Panel with timer
- Easy Operation
- Sturdy Ms square pipe frame mounted unit
- Level controller

HOT GUM MIXING MACHINE



Advantages

- Easy to operate. (Unskilled person can operate)
- Lower Labor cost/maximum time saving
- Produces best quality product
- Reduce Consumption of Gum
- No pollution
- Low wastage of Raw Material and product
- Reduces cost of inventories
- Minimize the cost of Production

Features

- Compact Unit
- Long Life
- Lowest Maintenance
- No Consumption of heating oil
- No electrical Hazards
- Highly Homogeneous Mixing Efficiency

ADHESIVE GUM POWDER PROCESSING PLANT



Advantages

- Improved product quality
- Reduce consumption of product, usage at safety margin glue application
- High shear homogeneous mixing efficiency
- Stable viscosity, consistence product
- Low cost
- Low labor cost
- Low wastage in handling & transferring

Features

- Compact design
- Low maintenance
- Easy operation
- Sturdy heavy fabricated unit
- High shear homogenous mixing agitator
- Standard make electric motor



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Valmet launches a zero effluent system for enzymatic starch cooking for board and paper makers

As part of the offering for board and paper makers, Valmet has developed Enzymatic Starch Cooking ZE (zero effluent) to improve operational reliability and quality of the starch cooking process. It consists of two separate units for binder starch and surface size starch with built-in-heat recovery and a new circulation system.

"The new starch cooking system has a smaller carbon footprint as – thanks to improved design – it causes less wasted starch compared to conventional cooking process and utilizes the generated waste energy. The patented innovation is in line with Valmet's promise to offer its customers technologies for enabling an entirely carbon neutral paper production," says Aapo Viiankorpi, Product Sales Manager, Board, Paper and Tissue Solutions, EMEA, Valmet.

"The starch cooking system adopts the new integrated technology to collect waste heat from the cooking process for heating fresh water. Recycling hot water is in line with our targets for low carbon operations. The integrated design improves our field installation efficiency. It covers a smaller and more compact area than before, and the operation is easy to master," says Lin Xiupeng, Chief of Paper Chemical Section at APP Guangxi Jingui Pulp and Paper.

About Enzymatic Starch Cooking ZE

Enzymatic Starch Cooking ZE has two pre-assembled and pre-tested skid units with patented process solutions for a super-wide capacity range of 20-120 tons of dry solids per day.

The cooking system offers a fully continuous operation even during the normal production stops, with circulation loops resulting in zero wasted starch. The system will constantly produce fresh, stable, and high-quality starch. The built-in heat recovery is utilized in integrated hot water preparation. These innovations are resulting in energy savings and decreased load and cost for water treatment.

<https://www.valmet.com/media>



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Over 1500 M/C
Running in India

SEMI AUTO HIGH SPEED STITCHERS & GLUERS



**DOUBLE JOINT
BOX STITCHING
MACHINE**

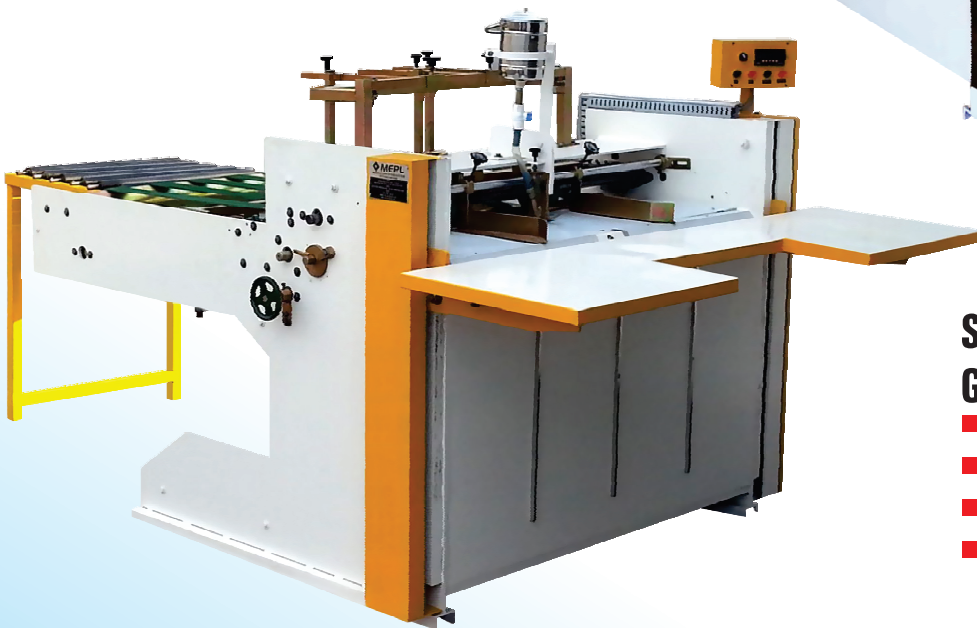
- 4 servo controlled
- PLC & HMI
- Easy operations
- Quick size change over

**SINGLE PEACE
BOX STITCHING
MACHINE**

- Euro servo 4G technology
- Elimination of skilled worker
- Programable logic controller with HMI



LOW
COST



**SEMI AUTO
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- PLC controlled
- Pressing & squaring
- Quick change over for different box sizes



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Email : yashmitian@gmail.com
Mr. Ravinder K Puri : + 91 9405480101
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Interview

Mr. Manish Suresh Shah
 Director and CEO
 ACME Machinery Co. Private Ltd., Mumbai
 (Vice President-ICPMA)



PAMEX and we have our customers visiting from printing industry in need of small flute profile single facers.

Q What are you showcasing this time during the exhibition?

During the exhibition we are displaying, "High speed E flute fingerless corrugation".

Q What is the key competitive advantages for your customers who choose to buy your products?

Competitive advantages for our customers is superior quality output with defined speed and maintenance free machines

Q Describe your initiatives for attending superior quality and enhancing efficiency in the overall production operations?

We have state of art machine shop with CNC machining & turning centers. We also do have test lab that helps us check the quality of steel, casting and other graded material.

Q Let's begin with a glimpse of your company's presence and offerings in India?

With more than 3 decades in the manufacturing business, since 1980 Acme in corrugated carton industry has pan India presence and also installation in many countries across the globe. We offer range of carton production line machines.

ACME as a brand means Highest Point and highest point of perfection is what we have scaled our product.

Q What are the future plans of company?

We at a speed of growth have expansion plan in our 2023-24 year with new manufacturing facility being build of another 30000 sq. ft shed to double up the production capacity.

Our line up in new range of machines with advancement in automation of existing range of machines are under process

Q What is your purpose in exhibition at "Pamex-2023" exhibition?

We have been participating back to back in PAMEX since last many shows may be from the start of

BHS Corrugated breaks ground in India

BHS Corrugated India, a 100% subsidiary of BHS Corrugated GmbH, will start production of corrugating rolls and single facers in India next year, under the brand name SF-I (Single Facer India). The company held a ground-breaking ceremony for the first manufacturing unit in India on 24 February 2023.

The ceremony marked the start of a new chapter for BHS Corrugated. The manufacturing campus will be a host for the corrugating rolls

factory, data centre, and spare parts warehouse. The event was attended by key customers, team members, and key stakeholders.

The SF-I can run at the speed of 150 m/min and is available in two working widths — 1.8m and 2.2m.

"Single facer is not new to the Indian market; we are selling it along with complete BHS Corrugated lines for the last many years. Even in Asia Pacific, more than 500 similar single facers are running and 40 of them are

already operational in India. Thus, it is a tried and tested product for the Indian market. We are just promoting it in the market in a new way," said Bijendra Sharma, Managing Director, BHS Corrugated India.

He added, "The pandemic era showed that importing a machine was too difficult. Formalities of import and currency fluctuation are big pain points. From your order till delivery, the currency fluctuated a lot. Logistic cost is another pain point, during Covid, we have seen freight costs go up from USD 2,000 to USD

15,000 per container. If the freight cost is more than your product cost, it doesn't make sense."

SF-I is compatible with all the existing automatic corrugation machines from any manufacturer.

Gunter Huber, Head of Business Unit Equipment, said, "India is about to become the third largest market worldwide for this industry, and it will be our honour to support the Indian industry offering sustainable support for the years to come. BHS global community is proud of the recent developments here in India."

Source: <https://www.thepackagingportal.com/>



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Scan the QR Code for video

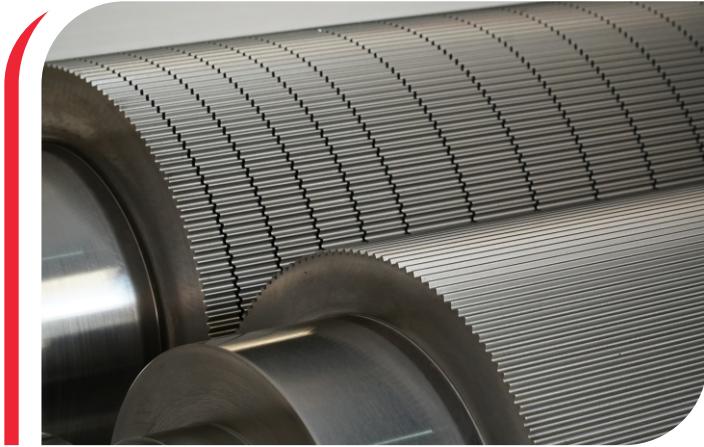
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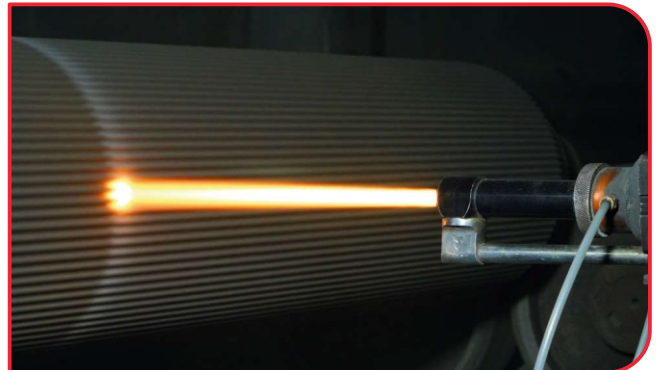
**TUNGSTEN CARBIDE COATED
FLUTE ROLLS**



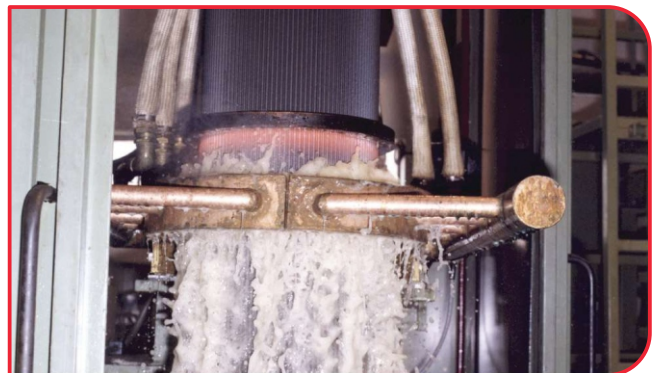
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GLUE & DOCTOR ROLL**



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How New Technologies Change Motion Control in Packaging

Motion control in packaging was a revolutionary technology when it first emerged. These systems enable robotic tools to adapt to new conditions, letting manufacturers package multiple products or varying configurations with the same machine. Now, as packaging needs continue to rise and grow increasingly varied, new technologies are taking motion control further.

Competing in a fast-paced industry means capitalizing on such innovations. Here are a few of the most significant advances in motion control technology packaging plants should know about.

Flexible Programming

Motion control in packaging is supposed to make automation more flexible, so heavily manual, time-consuming tasks like reprogramming limit its potential in many cases. Flexible, low-code programming tools can assuage this concern.

In a conventional packaging automation system, you must write new code for the machine to adjust to a new workflow or package size. Even if you only have to do that once, then switch between codes, that can be a time-consuming process. Newer motion control systems offer low-code programming. They can run different code on the same controller, letting them reuse existing code. This reuse means you only have to change or insert a few new lines of programming to reprogram the machine instead of writing a new program from scratch.

Modular Hardware

Modular robotic systems enable

you to run multiple motion control rigs on a single large machine. As a result, you can automate an entire packaging line while only programming one robot, significantly reducing implementation and adjustment time.

Similarly, more motion control robots today feature interchangeable parts. This modularity lets a single machine meet multiple packaging needs, even if those requirements are more than just a matter of size or shape. It also enables you to tailor robotic solutions to your specific needs and adjust them to changing conditions as you adopt new packaging configurations.

Human-Machine Interfaces

Human-machine interfaces (HMIs) are another important innovation for motion control in packaging. Without an HMI, IT teams must write a robot's programming on a separate device, then plug it into the machine to install it. HMIs let you code the motion control program on the machine itself, saving time and complexity.

Previously, HMIs came as optional add-ons to existing motion control systems, requiring more investment and implementation complexity to integrate.

Now, more motion control robots are coming with built-in HMIs. As this becomes the standard, more facilities will be able to capitalize on these time-saving, user-friendly features.

Predictive Maintenance

Motion Control systems use artificial intelligence (AI) to determine when a machine is likely to fail in the future, alerting workers to fix it before

breakdowns occur.

Because AI outperforms humans at spotting correlations in data, predictive maintenance is more effective than technicians at predicting these failures. Consequently, facilities that employ it can achieve higher uptime and lower maintenance costs, improving the ROIs of their motion control systems.

Motion control robots, by nature, involve many moving parts, making them prone to breakdowns over time. By employing predictive maintenance, you can avoid those breakdowns, ensuring these critical machines deliver peak performance for longer.

Consolidated Development Environments

Most facilities don't use a single packaging automation system, leaving them with multiple machines to program and configure. Similarly, each system contains several aspects that need development, from drivers to motion control programs to safety stops. Programming each of these separately takes time, but newer platforms offer a single, consolidated development environment.

Cloud computing technologies and modular systems lay the groundwork for all-in-one platforms where you can program every machine in your facility from one point of access.

Distributed Control Systems

Decentralized architecture is another important innovation for motion control in packaging lines. Conventional control systems host all

the servo drives in the control cabinet with the power supply and motion controller. More recent advances enable more distributed systems, where the drives sit next to the servo motors, away from the centralized control cabinet.

This distributed control system (DCS) architecture provides more flexibility. Because there are fewer cables coming from the control cabinet, you can clear up more space on the facility floor and place servo motors in more configurations. Similarly, the control cabinet itself can be smaller and cost less to cool and maintain.

Compact Form Factors

Servos, drives, control systems and more are getting smaller, helping you save factory space to improve airflow for cooling or implement other systems.

More compact components enable manufacturers to utilize automatic filling and packaging solutions, providing multiple features in one system.

New Connectivity Standards

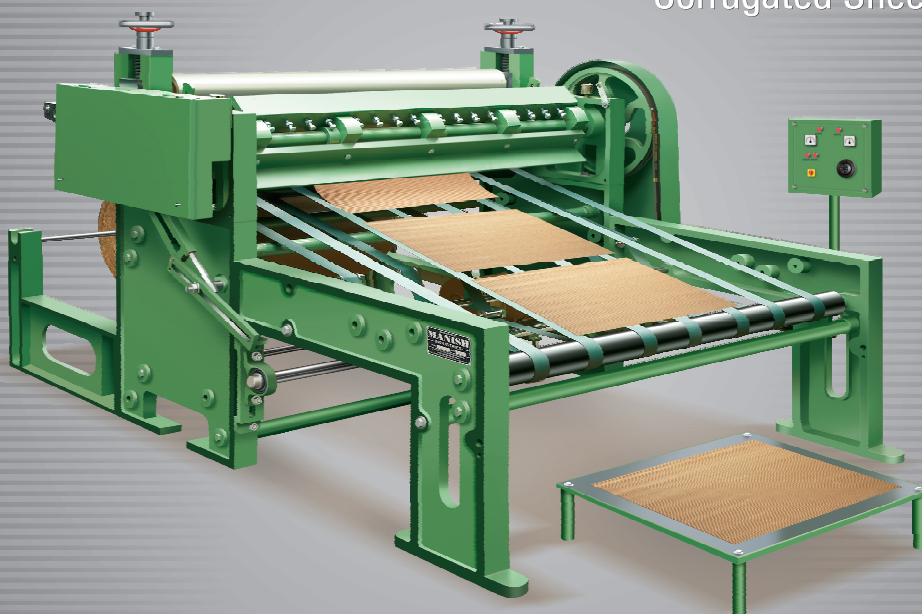
5G and Wi-Fi 6 also offer far more bandwidth than their predecessors, hosting more devices on a single network. That will enable packaging facilities to implement more motion control systems to maximize their automation. Increased automation will boost throughput and mitigate labor shortages.

Source: https://parcelindustry.com/tags-47-packaging_solutions.html



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FCBM- President's message ...



Mr. Vineet Jain

President-
Federation of Corrugated Box
Manufacturers (FCBM) and
Director- Girnar Corrugators
Pvt. Ltd.

On behalf of FCBM (Federation of Corrugated Box Manufacturers), I congratulate the organizers-"All India Federation Of Master Printers" in association with "Print Packaging.com(P) Ltd " for organising "Pamex" from 27th to 30th March, 2023 at BEC, Mumbai.

Organizing these kinds of specialized events, it would certainly provide a useful platform for the participants to enhance their grasp of the latest know-how in the Industry. Exhibitions are unique knowledge sources and will provide the industry to explore new business oppourtunity.

I convey my best compliments to ICPMA (Indian Paper Corrugated & Packaging Machinery Mfgs. Association) for their cooperation and milestone efforts extended to the organizers of Pamex. "ICPMA" has played a leading role in the development of Indian Corrugated Packaging Machinery Industry.

I wish all the best to Industry Leaders, Participants and supporting organizations and wish the show a grand success!

(Vineet Jain)



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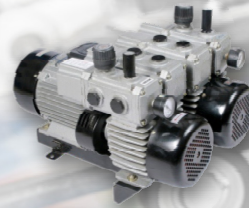
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...continue from page 3

artificial intelligence (AI), to make it easier to decide how to respond to what the data shows.

However, a facility is closest to being a smart factory when leaders there use the data to find solutions to identified problems. Perhaps a recent issue is that certain products on a particular assembly line have failed quality control checks at a higher-than-average rate. Associated data could show what's going wrong. Then, people could use that data to fix the problem.

It takes a while for decision-makers to iron out which data they'll track, how they'll do it and why. However, answering those questions is often worthwhile because it prevents disruptions that could cut into profits and cause the company to miss tight, client-related deadlines.

Explore Opportunities to Automate Production When Feasible

Automation is another defining characteristic of smart factory and smart manufacturing progress. It doesn't usually make sense to automate everything, but leaders often realize that being strategic can help them make meaningful gains that go beyond profits.

For example, many company leaders invest in cobots to improve safety. This approach could relieve people of some of the monotonous

work associated with many assembly lines. Then, they're less likely to make dangerous errors due to tiredness. Cobots can also assist people with specific ergonomically taxing tasks that would otherwise cause excessive fatigue and potential injuries.

Manufacturers are applying smart factory strategies and frequently shifting their investment priorities to automation-based process control. That was due to the increasing need to stay agile in the marketplace. Previously, the manufacturers had primarily focused on quality control and condition-based maintenance.

Those areas are still worth considering, but it's clear that people are looking at things differently now. Taking decisive steps to automate parts of production can have many positive outcomes. For example, a factory's overall output may go up without the company needing to hire more employees. Since automation also supports better consistency, leaders may find that they're better able to scale to meet demand.

Make Cybersecurity an Ongoing Concern and Area of Investment

Smart factory and smart manufacturing environments usually have an incredibly high number of internet-connected devices in them. Given that reality, it's not hard to imagine why such facilities are

frequent targets for cybercriminals. They have such large attack surfaces that hackers have no shortage of techniques they might try. Plus, manufacturing plants often contain proprietary and confidential information, as well as customer details. All that data could collectively become very valuable for people who orchestrate successful hacks.

Without top-down prioritization for cybersecurity in smart factory and smart manufacturing efforts, manufacturers are highly likely to fail and get targeted during attacks.

Cybersecurity risks often originate from third-party organizations manufacturers rely on to do business. The need is to ensure that all third parties follow cybersecurity best practices. Plus, manufacturers must hold them to account if flaws become apparent.

Dispelling Smart Factory and Smart Manufacturing Myths

As people learn more about these principles and others while ironing out how to advance their manufacturing facilities, they'll likely encounter some misconceptions. For example, some people think only large facilities can benefit from smart technologies. That's not true. However, people from organizations of all sizes must spend time and effort discovering what would work best for their facilities.


Another misconception is that people can only make a smart factory if building a new facility. Indeed, it can sometimes be more challenging to bring connected technologies into an existing plant. That's mainly because certain upgrades may not work with the company's equipment and infrastructure. However, workarounds exist. People should not fall into the trap of thinking it's not worth the trouble to pursue smart manufacturing in an older facility. They should at least explore the possibilities.

A related myth is that people must transform their facilities into smart factories all at once. The process may actually take several years or more, and there's no harm in that. Many manufacturers want to run trials first to see the return on their investment before pouring more money into a project.


Are You Ready to Move Ahead With Smart Manufacturing?

Getting optimal results with smart factory and smart manufacturing efforts is not always easy. Things can go wrong, even when people follow all the best practices. However, keeping these principles in mind will help individuals focus on what matters while avoiding pitfalls.


Source: <https://revolutionized.com/>



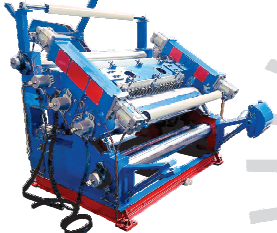
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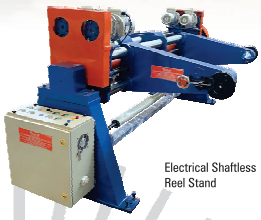
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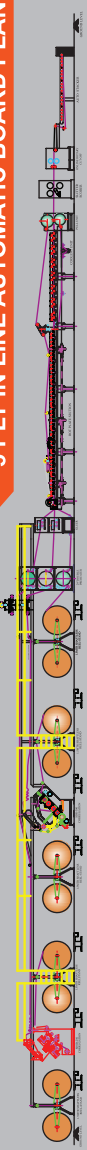


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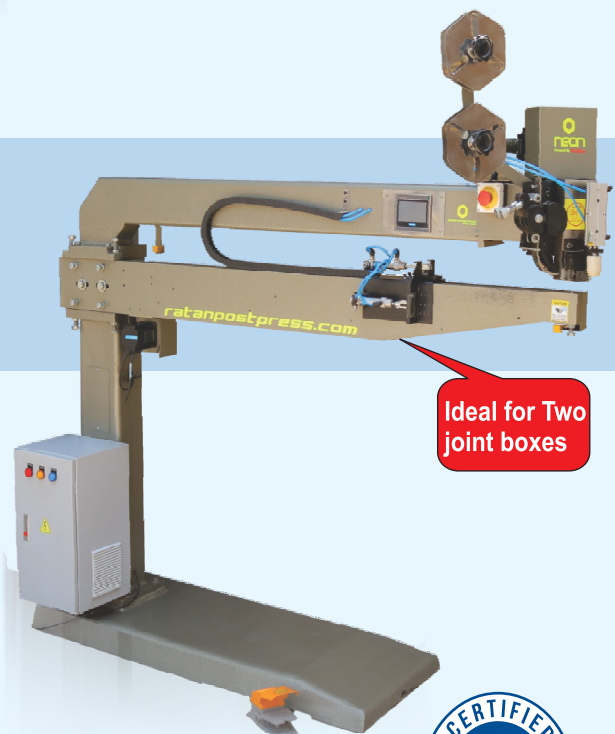
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New Side Seam Gluing solution replaces glue wheel units

Baumer hhs is revolutionising adhesive application in straight-line box production with an innovative solution for side seam gluing. The new solution uses high-performance application heads to apply glue from below, effectively replacing glue wheel units. Because it is a closed system, it prevents adhesives from contaminating folder gluers and straight-line boxes.

“We have totally redefined straight-line box gluing in collaboration with packaging and adhesives manufacturers,” says Ralf Scharf, Folding Carton Business Development Manager, Baumer hhs. “Our Side Seam Gluing Solution guarantees perfect gluing, with millimetre accuracy, right to the edge of the glue flap. It is very easy to operate and configure, putting the work of machine operators on a new level. The new system can also significantly reduce glue consumption in the production of straight-line boxes thanks to our intelligent Xact up controller, our high-performance PX 1000 application head and our DPP double-piston pump for high-accuracy pressure regulation. What is more, the new solution eliminates machine downtime for changing glue discs or wheels, and reduces the time and effort for cleaning to a minimum. These improvements take a lot of the burden off operators, enumerating the main advantages of the new Side Seam Gluing Solution. Customers who are

already using this new equipment in practice confirm the outstanding gluing results – even at maximum machine speeds of up to 600 m/min.”

One of the features of the Side Seam Gluing solution is its auto mode: Baumer hhs integrated a light barrier immediately upstream of the PX 1000 application head that reliably detects the length of the glue flap on a straight-line box. As a result, the



distance to be maintained between glue application and the leading and trailing edges of the glue flap only needs to be entered once in the Xact up controller. After that, the Side Seam Gluing Solution automatically adheres to the specified values for all jobs.

Conventional glue wheel units take a lot of time to clean. The wheels and scrapers require regular maintenance and cleaning. At the end of a production day, one of a machine operator’s tasks is to thoroughly clean the glue wheel units and dispose of any residual adhesive in the glue

tanks. The new Side Seam Gluing Solution from Baumer hhs eliminates these steps and reduces cleaning time to a minimum. In addition, the wheels no longer need to be switched out for major changeovers in box format. “We calculated the time saved by eliminating just the cleaning step, which is one of a machine operator’s basic tasks when using glue discs: Assuming 25 minutes per shift for cleaning and 2-shift operation over a period of 250 working days, we arrived at an annual availability increase of about 200 hours per folder gluer. Depending on the situation, the machines can produce more than 20 million folding cartons in that amount of time,” says Scharf.

The Side Seam Gluing Solution also leads to significant reductions in adhesive consumption, which benefit not only the cost-efficiency of the process, but also its overall sustainability. For instance, about three litres of adhesive usually are wasted cleaning the glue wheel units every day and disposing of residual glue from the tanks. “Assuming 250 annual working days and €2.50 in adhesive costs, that results in total savings of nearly €2,000 per year and folder gluer. This alone, combined with eliminating the time for cleaning, means that an investment in the Side Seam Gluing Solution pays off in less than six months,” says Scharf.

The intelligent Xact up controller, the PX 1000 application head with its high-quality gluing, the laser light barriers that reliably detect glue flaps and the intelligent software algorithms all work together perfectly in the new Side Seam Gluing Solution. The PX 1000 boasts a high closing force that guarantees perfect cut-off for precision metering and application of glue dots and stitches, making it possible to switch the gluing process to the Baumer hhs Glue Save mode (stitching mode) for numerous applications. In this mode, gluing can be interrupted at defined intervals, which reduces adhesive consumption by up to 50% while improving adhesive strength.

The Side Seam Gluing Solution boosts the sustainability of straight-line box production in two other ways as well: At least 30 litres of warm water are used each time to clean conventional glue wheel units, which is unacceptable today from an ecological standpoint. Secondly, the adhesive application system from Baumer hhs boasts high energy efficiency.

The new Side Seam Gluing Solution can be used and retrofitted on any folder gluer. For quality control, packaging manufacturers can use the same sensor systems they have been using all along with their glue wheels.

Source: <https://www.thepackagingportal.com/>

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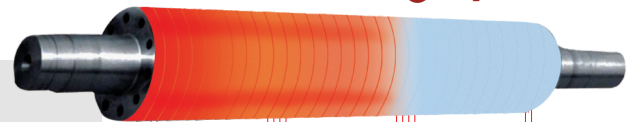


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Stay on Top of Packaging Industry Trends ... The Biggest Packaging Industry Trends for 2023

Shipping has become more important than ever as supply chain woes persist and e-commerce's dominance grows. Amid this shift, businesses across many sectors must watch developing packaging industry trends to stay competitive and meet new needs.

As with many sectors today, the packaging industry is undergoing substantial changes. Here are eight of the most significant to watch in 2023.

1. Smart Packaging

One of the most important of these trends is smart packaging. This movement integrates digital technologies like Internet of Things (IoT) sensors into product packaging solutions. This serves many purposes for consumers and companies.

Built-in RFID tags or location sensors are some of the most useful examples. Supply chain leaders rank visibility as their top priority today, but many organizations still rely on manual inventory tracking methods. Packages with built-in systems that transmit their location and other data offer a solution, so they'll see increasing adoption in 2023.

Other smart packaging solutions include active quality monitoring systems for food packages, QR codes

and anti-counterfeit displays. New applications emerge regularly, and smart packaging will undoubtedly reshape the industry this year.

2. Digital Printing

Digital printing is another significant packaging industry trend for 2023. Conventional labeling methods like offset printing have been the industry standard for years, but they can damage boxes and are costly. More brands will turn to less damaging, faster and more affordable digital printing as shipping volumes rise.

Printing will increase as e-commerce grows since businesses need to stand out from a sea of competitors. Moving away from standard brown boxes is an excellent first step in that goal, and digital printing provides the most cost-effective way to do so.

3. Sustainability

It's impossible to discuss industry trends in any sector and not mention sustainability. Eco-friendliness is becoming increasingly important to commercial and consumer clients, leading to rising demand for sustainable packaging.

Some packages, like poly mailers, can use 100% recycled materials to

help offset their environmental impact. In other cases, businesses may look for novel packaging materials to move away from plastic and paper entirely. Reducing consumption by finding more resource-efficient ways to protect products in shipment will also help.

This trend will go beyond the packages themselves. Factories that make boxes will have to meet higher environmental standards, driving a push for renewable energy and more efficient workflows.

4. Mono-Material Packaging

The rising demand for sustainability will also drive the popularity of mono-material packaging. Many conventional solutions include multiple substances, like a cardboard box with plastic insulation, making it difficult to promote recyclability. Designing packages to use a single material instead will help.

Mono-material packaging combines insulation and exterior protections to simplify the overall package. Doing so makes it easier to capitalize on recycled or recyclable materials and may help cut material costs. Companies that embrace this emerging trend may also stand out to consumers, driving brand recognition amid increasing competition.

5. AI and Automation

Many of these packaging industry trends require challenging conventional thinking and finding alternate solutions to long-held standards. As a result, many companies will also turn to artificial intelligence (AI) to gain data-driven insights and streamline processes.

AI algorithms could suggest novel packaging materials to become more sustainable or find ways to streamline production lines. Automating quality control through machine vision will further reduce waste and shorten lead times.

Packaging companies that implement more IoT technologies have more data on their workflows. AI will help them capitalize on this information to optimize their operations.

6. Ongoing Supply Chain Issues

Trends in packaging affect other sectors' supply chains, but the industry isn't immune to its own shifts. Materials like paper and wood are still facing backlogs and delays stemming from COVID-related shutdowns, demand spikes and ensuing supply chain issues. These disruptions and their resulting challenges will linger in 2023.

...continued page 18



3-5-7 PLY AUTOMATIC CORRUGATED PRODUCTION LINE



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...continue from page 16

Rising material prices and limited availability may make businesses rethink custom packaging. They improve brand recognition and reputation among consumers. However, in light of these challenges, companies may have to embrace customization through printing and subtle design instead of more complex packages. Finding ways to cut costs in other areas will also be necessary.

7. Minimalist Design

A less severe packaging industry trend to take note of in 2023 is a growing preference for minimalism. Streamlined, calming and elegant designs are becoming increasingly popular as a break from loud colors and saturated imagery, so more packages and labels will reflect that. In a crowded market, customers may also appreciate branding that's more direct about what it is.

This trend may prove useful to businesses, too, as it lets them appeal to modern audiences while minimizing expenses. Minimalist packaging uses less material and ink, so companies may lean into this movement further to enable lower spending.

8. Tactile Packaging

Businesses will need to find new ways to stand out as minimalist design grows. E-commerce's share of total retail sales is also steadily increasing, making it more important to make an

impression with a product's packaging, as that will be what many customers interact with most. Tactile packaging will become more popular as a solution.

Labels using techniques like embossing and cut-outs will stand apart from the flat packaging slips and tape online buyers are used to. Similarly, packages with unique textures may appear more natural or luxurious, helping improve brand reputations. These tactile differences also provide a way for companies to solidify their branding while avoiding over-the-top, maximalist colors and designs.

Stay on Top of Packaging Industry Trends

These packaging industry trends will shape what strategies prove most effective for businesses in 2023. Keeping track of them and adapting to these shifts will help companies maintain their positions and drive success in a changing market.

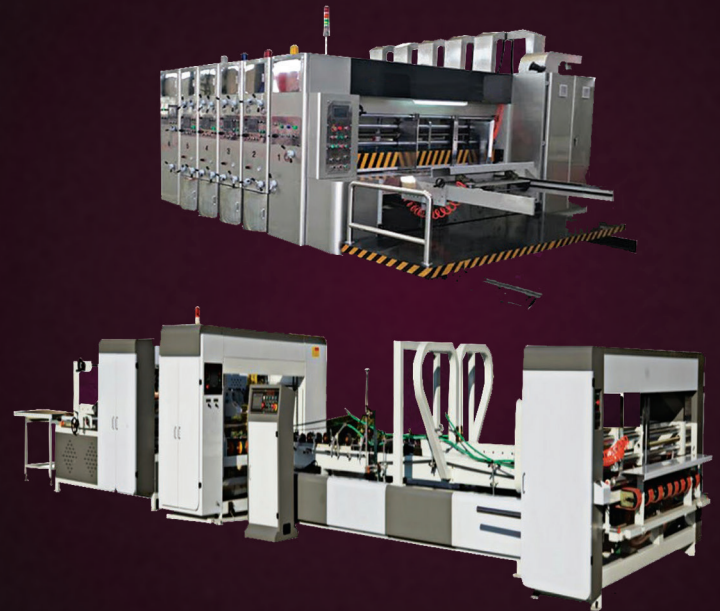
Some of these trends will grow faster than others, and new ones will emerge as the year progresses. Staying in tune with these changes is key to surviving in today's fast-paced, disruption-prone industry. Adaptation can be challenging, but businesses that monitor these trends closely can make the most of it.

Source: <https://parcelindustry.com/>



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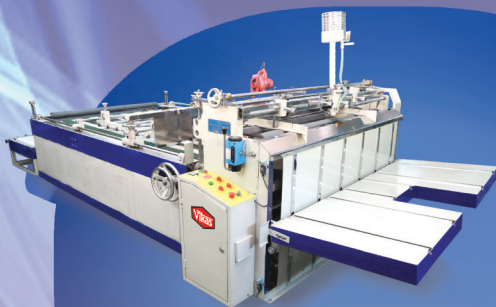
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057611	EFF(ACT)	100 %	230
TAR	0464	CYCLE TIME	TAR
ACT	0520	(SEC)	ACT
GSPH	AVE	4304	A D C
TAR	0240	(MIN)	ACT
TOTAL STROKE	ACT	0178	L.STOP CUR
		(MIN)	TOT
			40



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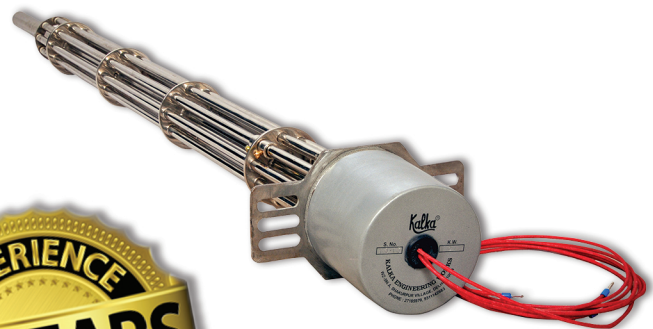
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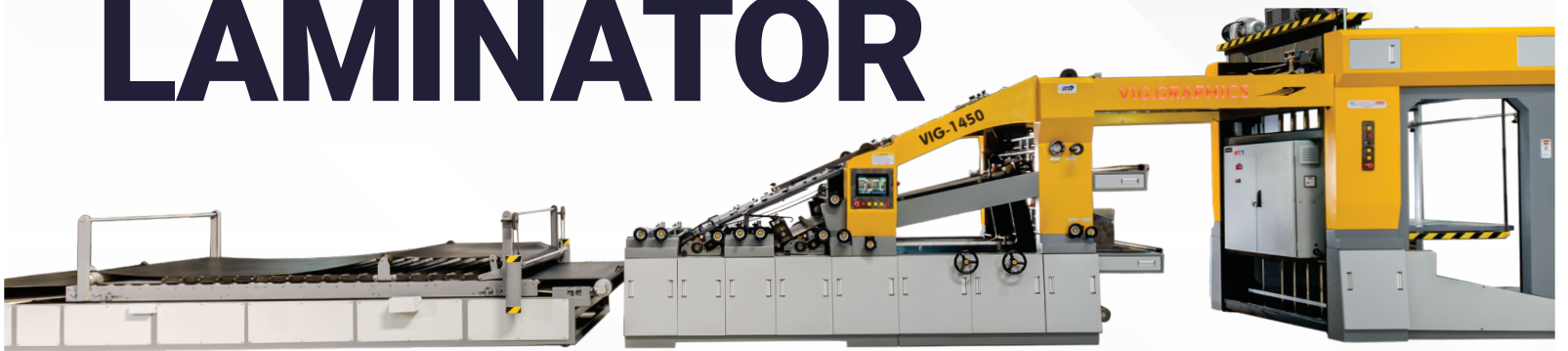
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