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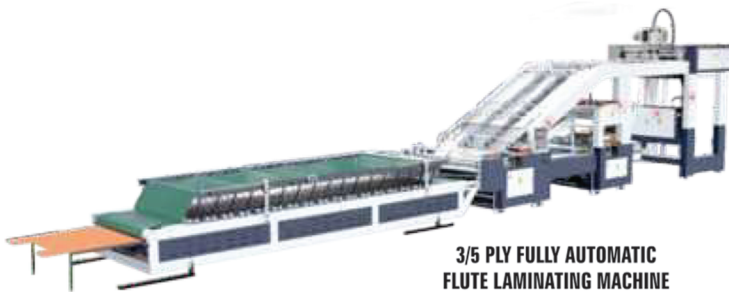
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# Revolutionizing Packaging: Corru Pack Print India 7-9 March, 2024 - Where Innovation Meets Corrugation Excellence

## WHAT'S HAPPENING?

Get ready for the ultimate showcase at "Corru Pack Print India 7-9 March, 2024" – an extravaganza organized by the trailblazing 'Indian Paper Corrugated & Packaging Machinery Mfgs. Association.' It's not just an expo; it's the heartbeat of the Corrugated Packaging Machinery Industry in India!

## WHY IT MATTERS?

Witness the future unfold as leading manufacturers unveil cutting-edge technologies with live demonstrations. The event is set to be the pulse of the Corrugation Industry, where innovations and solutions converge for the Packaging and Corrugated Industries.

## MARKET INSIGHTS

Dive into the booming Corrugated Packaging Market, valued at USD 70 billion in 2022. With a projected 4% CAGR, the industry is riding high on the wave of rapid industrialization, environmental sustainability, and the undeniable cost benefits of Corrugated Packaging.

## NUMBERS SPEAK

The India Corrugated Boxes Market is soaring, reaching US\$ 6.5 Billion in 2022 and expected to hit US\$ 12.3 Billion by 2028. A staggering CAGR of 10.8% during 2023-2028 showcases the industry's robust growth.

## WHY PARTICIPATE?

"Corru Pack Print India" isn't just an expo; it's your ticket to the future. Explore, connect, and collaborate:

**Connect:** Network with industry leaders and potential partners.

**Discover:** Unearth new business and investment opportunities.

**Inspire:** Absorb the latest global technology trends.

**Collaborate:** Negotiate with overseas companies for a manufacturing base in India.

## WHO SHOULD BE THERE?

Exhibitors will range from Corrugated Box Machinery to Testing Equipment, Inks, and Raw Materials. The event caters to Corrugated Box Manufacturers, Designers, Printers, and more. It's the melting pot for industry players and visionaries alike.

## ORGANIZER UNLEASHING EXCELLENCE

Meet the masterminds behind the event - Indian Paper Corrugated & Packaging Machinery Mfgs. Association" (ICPMA).

ICPMA: Crafting Tomorrow's Packaging Landscape - Uniting Industries for Innovation, Collaboration, and Growth!

## JOIN THE REVOLUTION!

"Corru Pack Print India 2024" is not just an expo; it's a gateway to a future where packaging meets innovation. Be there, be part of the change, and redefine the future of Corrugated Packaging!

For more information,

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## Interview Featuring: A conversation on corrugated packaging machinery with...

**Mr. Damandeep Singh Oberai** *(Managing Director)*  
*Venus Industries, B-6, Phase-II, Mayapuri, New Delhi-110064*

In a world where packaging plays a crucial role in ensuring product safety and presentation, the machinery behind corrugated packaging stands at the forefront of innovation. We had the privilege of sitting down with Sh. Damandeep ji- Managing Director of Venus Industries, a seasoned professional in the corrugated packaging machinery industry, to gain insights into the current state and future trends of this dynamic sector.

**Question: Can you provide an overview of the current landscape of corrugated packaging machinery?**

"The corrugated packaging machinery landscape is currently experiencing a transformative phase. Advancements in technology have led to the development of highly efficient and versatile machinery, enabling manufacturers to meet the evolving demands of the market. Key trends include the integration of automation, digital printing capabilities, and a strong emphasis on sustainability."

**Question: How has technology played a role in shaping the evolution of corrugated packaging machinery?**

"Technology has been a game-changer in this industry. Automation has significantly enhanced production efficiency and reduced labor costs. Digital printing technologies allow for intricate and customizable designs, meeting the growing demand for personalized packaging. Additionally, advancements in materials and coatings contribute to the strength and durability of corrugated packaging."

**Question: Sustainability is a growing concern globally. How is the corrugated packaging machinery industry addressing environmental considerations?**

"Sustainability is indeed a top priority. Machinery manufacturers are incorporating eco-friendly materials, exploring energy-efficient processes, and developing systems that contribute to a circular economy. There's a noticeable shift towards reducing waste and carbon footprint throughout the

entire lifecycle of corrugated packaging."

**Question: What are some key challenges faced by the industry, and how are these being addressed?**

"One challenge is the need for continuous innovation to keep up with market demands. The industry is also navigating issues related to the cost of implementing new technologies and the adaptation of existing machinery to meet sustainability standards. Collaboration among industry players, research institutions, and regulatory bodies is crucial to overcoming these challenges."

**Question: How do you foresee the future trends in corrugated packaging machinery?**

"The future holds exciting prospects. We can expect further integration of artificial intelligence and machine learning in machinery operations, providing predictive maintenance and optimizing production processes. Sustainability will continue to be a driving force, with an increased focus on recyclability and the use of alternative materials."

**Question: Any advice for businesses looking to invest in corrugated packaging machinery?**

"Before making any investment, businesses should thoroughly assess their production needs and long-term goals. Consider machinery that offers flexibility, efficiency, and aligns with sustainability objectives. Additionally, stay informed about emerging technologies to make informed decisions that will future-proof your operations."

### CONCLUSION

Our conversation with Sh. Damandeep ji provides valuable insights into the dynamic and ever-evolving world of corrugated packaging machinery. As the industry continues to balance innovation with sustainability, it remains a cornerstone in the broader landscape of packaging solutions.



## Keypoint launch 'State of the Industry Report: Digital Printing on Corrugated'

**K**eypoint Intelligence has launched its 'State of the Industry Report: Corrugated', part two of a five-part series of reports to be published that focus on industry intelligence for digital printing in labels and packaging. This series of reports evaluates the adoption and use of production digital presses across narrow web labels, corrugated packaging, folding carton, and flexible packaging segments.

The report addresses industry questions related to digital printing on why it's used, how it's used and the value of its use. Additionally, the report dispels some commonly held industry perceptions related to digital printing. This clarity provides additional insight into the challenges and opportunities for digital printing, and actions the industry can/should be taking to accelerate the adoption of digital printing in corrugated packaging.

To get a better understanding of the industry, Keypoint Intelligence conducted qualitative in-depth interviews with a core global group of converters, OEMs, and suppliers, providing a sounding board to discuss topics of interest

and gain a well-rounded perspective on the marketplace.

"Digital printing has established an entry position in corrugated packaging," says Jean Lloyd, Principal Analyst, Keypoint Intelligence. "Our estimate places volume share for digital printing at less than 1% of the overall market, and 3% of the addressable market."

"For those already participating in digital printing, the report addresses change occurring at all levels of the supply chain, and the potential favorable impact they will have around the use and adoption of digital printing," explains Jeff Wettersten, VP, Keypoint Intelligence's Packaging service. "For those not participating in digital printing, the report addresses options for engagement."

This State of the Industry report also discusses the similarities or differences across all four packaging segments, corrugated, folding carton, flexible packaging, and narrow web labels, focusing on the broad value chain and where and how decisions are made for packaging specifications.

## 2D Ultra Board from Dufaylite

**R**ecycled paper honeycomb manufacturer, **Dufaylite**, has added to its portfolio of products by introducing Ultra Board 2D and 2D white.

The new boards are a thinner version of traditional Ultra Board and available in 6mm thickness with a traditional brown honeycomb centre or white core, making it the ideal solution for retail displays, boards, and signs. Perfect for wall mounted, hanging, directional signage, they are the ideal sustainable replacement for rigid plastic, PVC or Foam Board.

Available in standard industry sheet sizes measuring 2440




x 1220mm, its thickness enables more sheets to be delivered per pallet making it an even more sustainable choice.

"Ultra Board 2D and 2D White are a great addition to our portfolio. We are proud to be responsive to market needs and we are always looking for ways to provide sustainable alternatives," commented Ashley Moscrop, Managing Director, Dufaylite. "Our eco credentials are at the heart of everything that we

do, and this could be a real game changer for everyday use in the industry. It is both easy to print on and to use on cutting tables at a competitive price."

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## ■ Paper recyclers should embrace AI and consider carbon credits, says BIR

**B**IR World Recycling Convention in Abu Dhabi on 24 October.

The importance of artificial intelligence and carbon credits in the future of the paper recycling sector were highlighted to the Paper Division session at the BIR World Recycling Convention in Abu Dhabi on 24 October.

Ranjit Baxi, Managing Director, J&H Sales International in the UK and founding President of the Global Recycling Foundation, argued the sector should harness the power of AI to improve quality, efficiency and costs, as well as verifying green audit trails. He challenged the sector to focus on the creation of a global carbon credit system whereby paper and other recyclers would be financially rewarded for their role in saving CO<sub>2</sub> as part of the drive to Net Zero.

The speaker shared five key factors that determined successful global trade: logistics costs, currency volatility, economic outlook, demand, and quality control. With parts of the world developing local collections, he believed that exporting lower grades of any fibre would by 2030 be a no-go area and more fibre would end up in energy recovery. Improving quality and efficiency in sorting plants will be key in the coming years, Baxi added, with AI, robotics and optical sorters all helping to achieve this. Paper mills will demand green audit trails and AI in data systems will play an important part in the industry in generating them, as well as transforming logistics and payment systems.

The speaker acknowledged that voluntary carbon credits (VCCs) bought by carbon emitters to offset their CO<sub>2</sub> emissions was not a current focus for the sector but would be in the next five years. Earning credits by recycling paper and other materials could bring in US\$ 1-2bn for stakeholders across the global recycling chain, he

believed. Baxi said, "We are supplying 240 million tonnes of recovered fibre to generate about 430 million tonnes of new paper across the world. That 240 million tonnes can be, should be, and must be part of the VCC system."

Baxi thought the Indian market had big growth prospects. He said, "Demand for recovered fibre in India will grow first and foremost because of e-commerce." There are expected to be 300 million people in India using e-commerce by 2025, increasing packaging demand. Capacity at Indian paper mills, of which there are around 750, is projected to grow from 14 million tonnes to over 20 million tonnes by 2030 and paper consumption is projected to be 25 million tonnes by 2030. "The good news for us is that 75% of Indian paper mills are totally dependent on recovered fibre," Baxi said. Around 30% of domestic fibre in India is recovered and it imports around 12 million tonnes.

Simone Scaramuzzi, Sales and Purchasing Director at LCI Srl in Italy, described the market situation in Europe. Mills were not working fully and buying only what was necessary, he said, due to a drop in e-commerce and consumer demand. Energy costs are now around pre-Covid levels and collection levels had fallen 25-30%. "We are now exporting more than selling to local mills," said Scaramuzzi.

Discussing the Middle East, Atul Kaul, Director Pulp & Paper at Waraq in Saudi Arabia, said the region produces four million tonnes of recycled containerboard but every mill is expanding, and every mill needs more quality paper. Even so, fibre was being pulled out of the region to Southeast Asia due to demand there. Kaul said that after peaking in 2022, the industry came to a crash in 2023 when prices and demand plummeted. He agreed with Baxi that efficiency would be critical in the future and that only the best will survive.

## ■ Highcon forms partnership with BHS Corrugated

**H**ighcon and BHS Corrugated have jointly confirmed a Strategic Partnership expected to have far-reaching implications for the digitalization of the corrugated packaging industry. BHS Corrugated is convinced that the incorporation of Highcon's digital die-cutting equipment into the 'Box Plant 2025' strategy can serve the industry's needs, as it moves towards greater automation and digitalization. Therefore, BHS Corrugated

will support Highcon with customer leads.

"Highcon's solutions can be a valuable building block in the digitalization and enhanced operational efficiency of the corrugated industry," said Christian Engel, Managing Director, BHS Corrugated. "We have been impressed by Highcon, its leadership and workforce, its technology and solutions and we look forward to working closely to drive a win-win for both our companies and our customers."

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## Microflute solution as alternative to traditional rigid boxes

**M**etsä Board has designed a lighter gift package that has strength features close to those of the rigid box solutions currently used for premium products such as cosmetics. With the new design, made from microflute corrugated board, the company wanted to present a new gift box solution that uses less material and has a lower carbon footprint than traditional rigid boxes.

The team at Metsä Board's Excellence Centre in Äänekoski, Finland started to work on the new alternative a few years ago. "We were looking to provide the same experience by remodeling a box that was strong and rigid but lighter and



with a smaller environmental impact," explains Ilkka Harju, Packaging Services Director, Metsä Board.

The best solution turned out to be microflute. The packaging consists of a separate base and lid – its surface liner can be uncoated white kraftliner or coated white kraftliner. Of these, the latter gives the package the best printing properties.

The packaging solution is designed to be production-efficient from start to finish and suitable for mass production on current production lines – with no major retooling required. According to Harju, the new gift packaging solution is an ideal fit, especially for cosmetics, chocolate, beverages and other premium products.

"Cosmetics are probably the number one application area, but the material can be customised very easily to create special packaging solutions," Harju says.

The new lightweight solution also uses significantly less material. Metsä Board's Sustainability Services team compared the new microflute solution to recycled fibre-based rigid box solutions and found the microflute concept to be up to 50% lighter.

The cradle-to-gate carbon footprint of the new solution – which considers value chain stages from raw materials extraction until the paperboard product leaves the mill – was also calculated and found to be 59% lower than that of traditional solutions.



INDIAN PAPER CORRUGATED & PACKAGING MACHINERY MFGRS. ASSOCIATION (ICPMA)

### ICPMA SCHEDULE OF WEBINARS 2023-24

WEBINAR FOR MSMEs (Duration – 90 Minutes Each)

S. NO.	PROGRAMME TITLE	DATE	TIME	WEBLINK
1	FOREIGN TRADE FOR MSMEs • Important Registrations • Process & Steps • Prevention of Fraud • Documentations • FAQs	January 20, 2024 (Saturday)	04:00 pm to 5:30 pm (Evening)	<a href="https://meet.google.com/eqc-ueti-fja">https://meet.google.com/eqc-ueti-fja</a>
2	COMPANY LAW & TAXATION • Company Law Compliances • GST – Basics • IT – Basics • Prevention of Default	March 23, 2024 (Saturday)	04:00 pm to 5:30 pm (Evening)	<a href="https://meet.google.com/ado-dcjlw-std">https://meet.google.com/ado-dcjlw-std</a>
Keynote Speaker: Anmol Bakshi (Bakshi & Associates Law Firm & Legal Consultants)				



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## Smurfit Kappa invests in Hexacomb in UK market

**S**murfit Kappa has made an investment in cutting-edge machinery for its UK Hexacomb offering. The machinery is dedicated to enhancing Hexacomb packaging with the versatility to cut and score material up to 45mm in thickness, producing a variety of sustainable solutions that can be customised across a diverse range of sectors and applications.



Collaboration between Smurfit Kappa Holland and Smurfit Kappa UK means the company are set to introduce an innovative, eco-friendly protective product that will benefit

the UK market. Customers can enjoy reduced shipping costs, a smaller carbon footprint, and the confidence that comes from knowing their products are well-protected during transportation, thanks to the material's high strength to weight ratio and shock-absorption properties.

Furthermore, Hexacomb is designed with customer convenience in mind. Its ease of handling makes packing and loading quicker and more efficient, saving precious labour time and associated costs. Additionally, Hexacomb eliminates the need for export certification, simplifying the shipping process for customers. As a sustainable alternative to expanded polystyrene, Hexacomb ensures a reliable and eco-friendly packaging solution that won't crumble, shed, or harm the environment.

Previously, only larger runs of Hexacomb packaging were possible from the Netherlands, limiting Smurfit Kappa's UK offering. This investment enables shorter-run orders in the UK, bringing Smurfit Kappa closer to customer needs and fostering sustainable packaging solutions.

With a 2270 x 3200mm cutting area, split bed for dual 1600 x 2270mm zones, and a v score tool for corner join integrity, this advanced flexibility facilitates accurate cutting, eliminating the need for costly cutting tools.

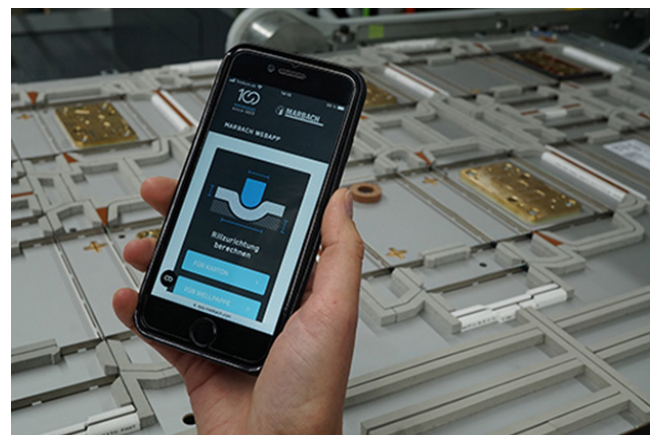
## Marbach launch new app

**M**arbach has released a new app. With the touch of a button, customers can quickly and easily find out which creasing channel is best suited to their particular job when die-cutting their packaging. The app can either be installed on a mobile phone or can be used as a web application on a PC.

André Angermeir, Sales Manager, Marbach Die Supplies, explains: "With the variety of creasing channels in use today, it is not easy to keep track of everything and always select the one that is best suited to the job in hand. The new Marbach Web-App is a digital advisor for our customers, because it gives them the possibility of receiving a recommendation quickly and easily by entering just a few parameters. First users are already using our app and are enthusiastic about its ease of use and the possibilities it offers."

In addition to the individual recommendation of a creasing

channel, the new Web-App informs users about current Marbach news in real time. Furthermore, there are special promotions for app users as well as other additional information.



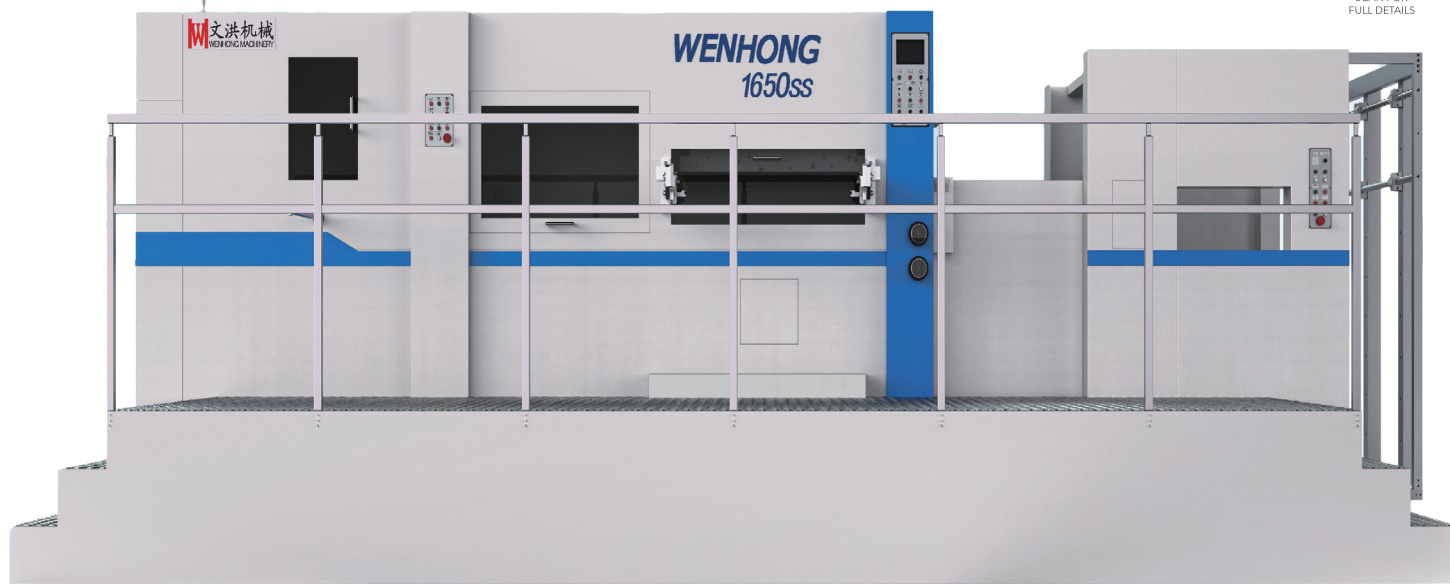
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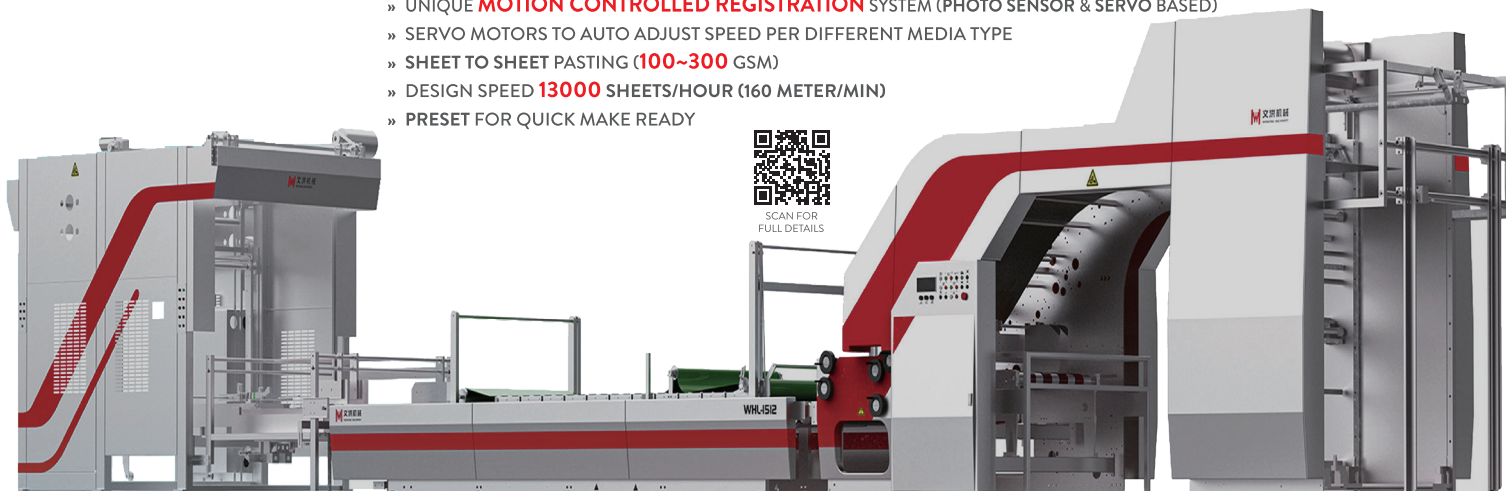


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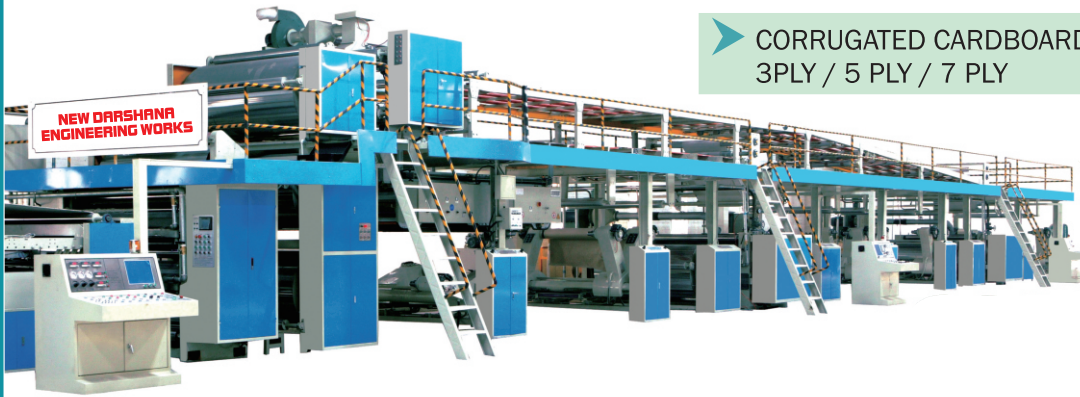


SCAN FOR FULL DETAILS



**HIGH SPEED LITHO LAMINATOR WITH OPTIONAL FLIP FLOP STACKER**





▶ CORRUGATED CARDBOARD PRODUCTION LINE  
3PLY / 5 PLY / 7 PLY

▶ SEMI-AUTO WATER BASED INK PRINTING ATTACH WITH  
SLOTTING / ROTARY DIE CUTTER MACHINE



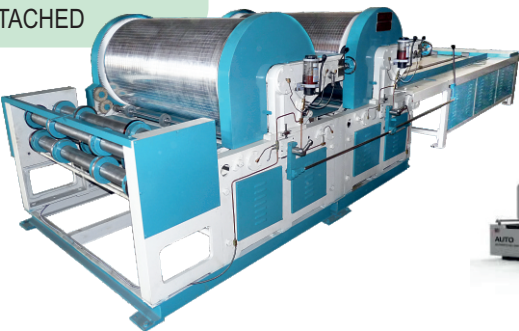
▶ FINGERLESS TYPE SINGLE FACER  
CORRUGATION MACHINE



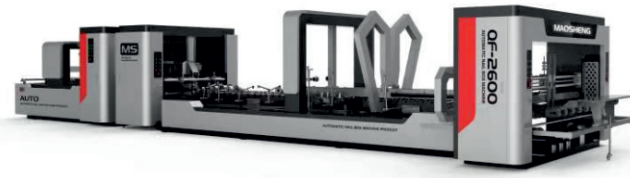
▶ SEMI-AUTOMATIC HIGH SPEED BOX  
STITCHING MACHINE



▶ 2 COLOUR FLEXO PRINTING  
WITH CHAIN FEEDER TABLE AND  
4 BAR ROTARY ATTACHED



▶ FULLY AUTOMATIC GLUER  
+ STITCHER WITH AUTO STACKING



**NEW DARSHANA ENGINEERING WORKS**

Manufacturers, Importers & Exporters of 3/5 Ply Board Making Plant & Corrugated Box Making Machinery

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 Factory: 182/6, Indian Corporation Complex, Opp. Gajanan Petrol Pump, Dapoda-Bhiwandi Mankoli Naka-421 302.  
 Contact : Mr. Karanpal Singh Viridi : +91 98339 54050 • Mr. Harjinder Singh Viridi : +91 98339 14050 • Mr. Kulwant Singh Viridi : +91 98206 38833  
 E-mail : virdimachinery @ yahoo.co.in • Website : www.virdimachinery.com



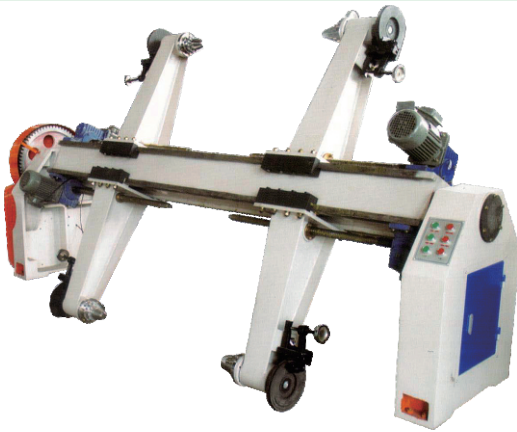
▶ CHAIN FEEDING COMBINE CREASING & SLOTTING MACHINE (R.S. 4) ATTACHED WITH AUTO FEEDER



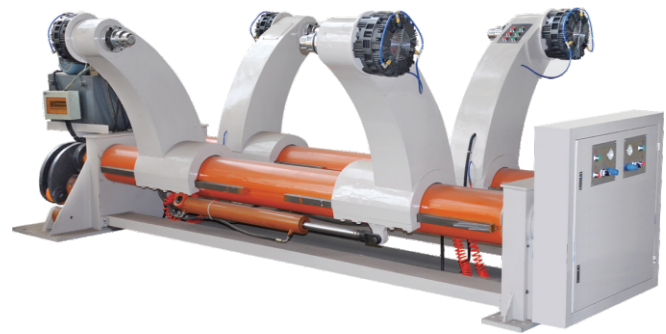
▶ THIN BLADE SCORING SLITTER MACHINE



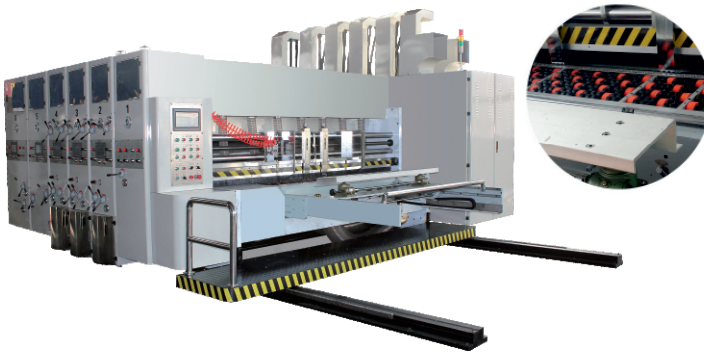
▶ ELECTRICAL SHAFTLESS MILL REEL STAND



▶ HYDRAULIC SHAFTLESS MILL REEL STAND



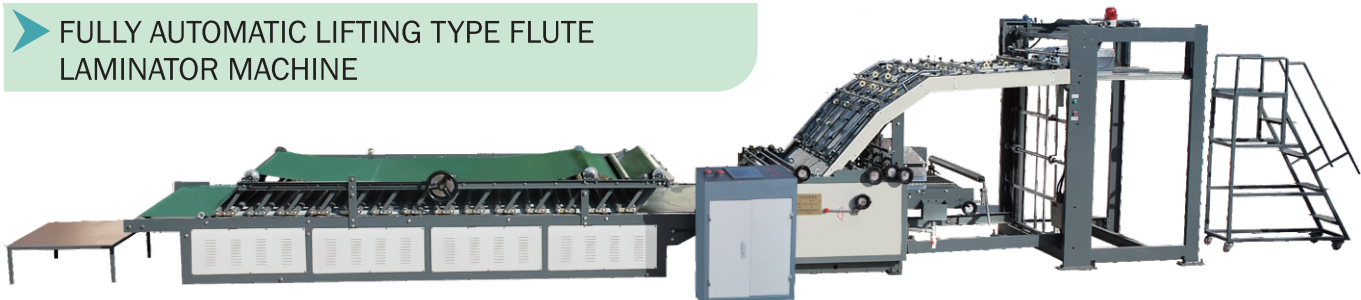
▶ AUTOMATIC LEAD EDGE PRINTER SLOTTER / ROTARY DIE CUTTER MACHINE



▶ DOUBLE PROFILE INLINE CORRUGATION MACHINE



▶ FULLY AUTOMATIC LIFTING TYPE FLUTE LAMINATOR MACHINE



## NEW DARSHANA ENGINEERING WORKS

Manufacturers, Importers & Exporters of 3/5 Ply Board Making Plant & Corrugated Box Making Machinery

Office: 012-C-1, Kothari Estate, 9 Acres, Tikuji-ni-wadi Road, Behind Happy Valley Apartment, Chitalsar, Manpada, Thane(W)-400 610. INDIA

Factory: 182/6, Indian Corporation Complex, Opp. Gajanan Petrol Pump, Dapoda-Bhiwandi Mankoli Naka-421 302.

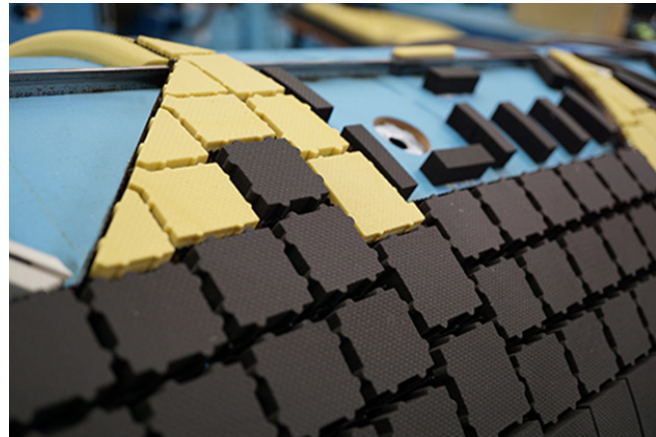
Contact : Mr. Karanpal Singh Virdi : +91 98339 54050 • Mr. Harjinder Singh Virdi : +91 98339 14050 • Mr. Kulwant Singh Virdi : +91 98206 38833

E-mail : virdimachinery @ yahoo.co.in • Website : www.virdimachinery.com

## Best running performance during rotary die-cutting

**M**arbach has recently introduced its new high-performance rubber for corrugated rotary cutting-dies.

Under the name marbaject, this new type of rubber has convinced customers with its outstanding technical properties. The running behaviour of a die-cutter is enormously influenced by the rubbering being used. That is why it is so important to equip a cutting-die with the best rubber. In order to ensure the smooth functioning of the die-cutting process, multiple rubbers with different properties are always required for one and the same tool – depending on the point of use. The important thing is that the different rubbers harmonise perfectly with each other. Ralf Nuyken, industry manager at Marbach, explains, “We have designed the marbaject rubber for use on cutting-dies and that is why we have been able to perfectly match the technical properties of the different hardness grades



during its development. Marbaject is convincing due to its unbeatable positive technical properties: Thanks to its high rebound elasticity, it ensures optimum ejector function during the die-cutting process, and its high abrasion and wear resistance make it particularly durable.

## Kongsberg Ultimate is brand new

**K**ongsberg Precision Cutting Systems has unveiled its new digital cutting platform, the Kongsberg Ultimate. The company says its new platform delivers unprecedented levels of productivity, precision and safety.

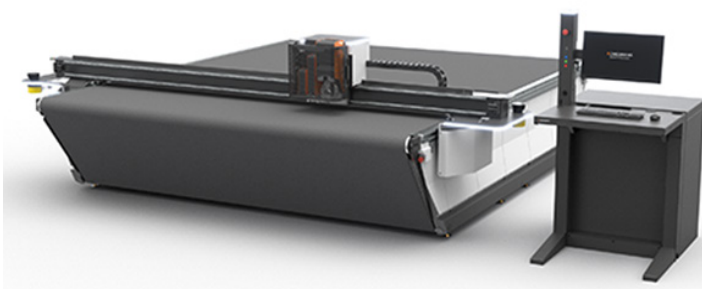
With its innovative drive technology, an acceleration rate of up to 2.74G and a cutting speed of 168m per min, the Kongsberg Ultimate is a testament to the company's commitment to developing the latest technology.

“Engineered with our deep understanding of corrugated and display converters' needs for precision, the Kongsberg

Ultimate promises to redefine standards and usher in a new era of productivity and innovation, delivering a fast return on investment for converters of corrugated board,” said Stuart Fox, President and CEO. “Enhancing operations and providing a significant competitive advantage, the platform sets a new industry benchmark and is set to drive the future of corrugated production for years to come.”

Incorporating six core values in the design, the new machine represents a step forward in technology, directly addressing the challenges faced by corrugated converters involved in continuous high volume multi-batch production.

“With corrugated converters around the world under increasing pressure to produce better, faster, safer and more efficiently to meet the demands of the global market, we have underlined our commitment to deliver a solution that has been engineered for precision and built for productivity,” added Fox. “Businesses seeking to elevate their operations need look no further than the Kongsberg Ultimate.”





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**KALKA ENGINEERING WORKS**

## ■ BHS Corrugated launches CF-A single facer to extend its portfolio



**P**ositioned between the Econo Facer and Modul Facer® in its requirements, the CF-A addresses customers who want to use cassette machines with proven belt technology, especially for lighter grammages.

In the case of single facers, too, innovations not only serve existing needs, they also generate new demands for customers. This involves the broadest possible positioning of the product portfolio as well as the integration of overarching trends in the corrugated board industry – such as the increasing trend towards the use of lighter grammages or the processing of larger ranges as part of the company's own production line.

With the product launch of the Cassette Facer CF-A, BHS Corrugated has now added another state of the art single facer to its range.

“The CF-A is primarily targeted at the markets in Europe, North America and the Middle East and their growing demands for light paper grades and improved printability,” says Bernhard Müller, Senior Product Manager Equipment. “We can now close a gap in terms of performance that falls between the respective requirement profiles of Econo Facer and Modul Facer®.”

As a conventional single facer equipped with a pressure

roll, the Econo Facer EF-P with its working width of 2.8m, its compact, easy-to-integrate machine design and maximum speeds of up to 430 m/min is designed for high performance.

The Modul Facer® MF-A, however, combines the highest quality demands on corrugated board with maximum productivity. In particular, maximum speeds of up to 480 m/min can be realised here with the use of the latest automation technology (belt technology). In between these successful Econo Facer and Modul Facer® models, BHS Corrugated has placed a new single-facer model on the market, the CF-A, which fully meets the expectations for quality and efficiency to which customers are used – without fully exploring all options for high-end automation. The basis for the new development was the technologically sophisticated modular design of the Modul Facer®, which is engineered for intelligent integration. By applying existing solutions and components that have proven their value over many years and can be transferred to the customer. At the same time, the belt technology used in both the MF-A and CF-A ensures optimum quality of the corrugated board surface. This is not only superior for the production of lighter grammages, but also creates the required conditions for printing on the inside of the box as well.



In accordance with this target, the Cassette Facer has integrated system solutions from the MF-A range. The conveyor belt module is identical to that of the MF-A. The motorised cassette infeed, which can be performed from either the drive or the operating side, the complete belt module, and the glue unit with its "soft touch" control are also already approved individual system solutions developed for the MF-A. The central control system uses the touch panels that have long been tried and tested on the MF-A and the visualisation system that can be parameterised extensively to meet individual requirements.

The general safety concept for the housing and machine status is also designed at the highest MF-A level. The CF-A is also available as heavy-duty package for board grades above 600 gsm singlewall board production. Without operating a swivel machine, the design of the Cassette Facer could be held remarkably compact compared to the Module Facer®. This not only enables integration where production space is limited, but also simplifies the retrofits of existing lines, especially due to an easier installation on

floor level without foundation pit. The overall reduction of wear parts trims down both maintenance and operation. This is made possible by using vacuum technology, which has been hundreds of times successfully operated by BHS Corrugated customers, to hold the medium to the roll.

In keeping with its own credo, putting operational safety and reliability of corrugators and individual machines at the top of the list, BHS Corrugated has invested two years of development time in the Cassette Facer despite relying on established components. Following the decision-making and preliminary planning phase, the starting signal for the development of the CF-A was given in spring 2020.

Müller concludes, "Like its forerunners, the new CF-A is based on the immense technological knowledge. The first Cassette Facer is now in operation for our customers since October 2022: this with the expected, exceptional performance and the great feedback from the customers answering this. The CF-A is now ready to be ordered and can be delivered as of 2025."



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## Sri Andal at forefront of developing India's sustainable paper making market

The Indian Government's ban on one-time plastics and societal shift towards sustainability have boosted the demand for the cup stock, paper bags, paper straws and paper-based packaging, driven by replacement of plastic applications in various segments.

Sri Andal Paper Mills is regarded as one of the leading manufacturers of packaging board in India. The company's latest containerboard line in Tamil Nadu is built with Valmet's solutions, designed to reduce energy and water consumption, minimise raw material costs, and deliver excellent end-product quality

"The manufacturing process, being highly automated, will enable us to manufacture the required quality products on a

sustained basis. We have selected pieces of equipment that are highly power-efficient," says P. Subramaniam, Managing Director, Sri Andal Paper Mills. "For our stock preparation process, we selected Valmet's Conical Refiner Pro refiners, bale pulper and Valmet Hydrocyclone HC



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cleaners for optimal results. This solution can set up a new standard for stable and energy efficient systems in the Indian market."

Refining plays a decisive role in developing the fibre properties of stock and final paper properties like strength. It also greatly affects the paper machine's runnability. Optimal refining can also significantly impact mill energy savings. Valmet Conical Refiner Pro is a revolutionary refining concept for low-consistency refining applications that can replace two traditional refiners.

Due to allowing for a reduced number of refiners in the system, the Valmet Conical Refiner Pro increases energy efficiency and savings in operation costs all while supporting sustainable development. This ultimately leads to a reduction in maintenance costs, a lower entire life cycle cost, and less environmental stress.

"Quality and technology are inseparable partners. Sri Andal is aiming at producing high-quality containerboard with tangible efficiency improvements and Valmet offers suitable solution for achieving these targets. With this technologically advanced project, they are setting their footprint in the Indian containerboard segment," says Varun Jain, Director, India Region, Asia Pacific, Valmet.



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# NEW & REFLUTED CORRUGATED ROLLS



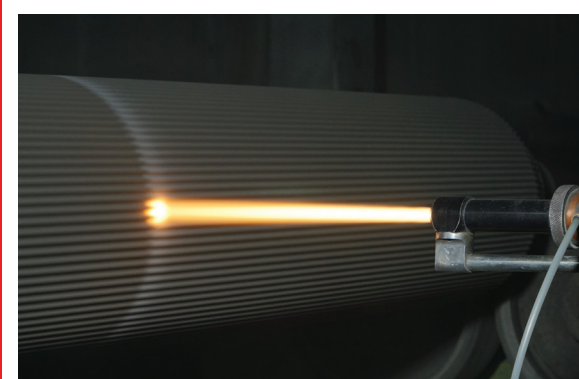
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## Baumer hhs expands CorrBox Solution with 'Bundle 24' function for ejecting defective products

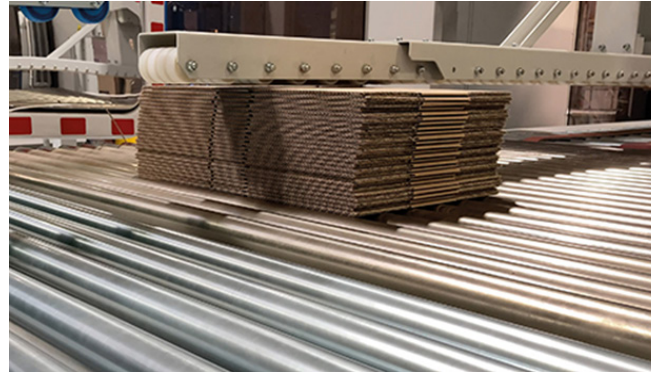
Having introduced the CorrBox Solution to the market in mid-2022 as a system for applying and monitoring adhesives in the production of corrugated packaging on flexo folder gluers, Baumer hhs has now set a new standard with an added function. Developed as an expansion of the CorrBox Solution, the new Bundle 24 function offers the option of automatically and reliably ejecting defective boxes with efficiency.

"Our objective with the CorrBox Solution was to rethink adhesive application and monitoring in corrugated production from the ground up," explains Andreas Schneiders, Corrugated Business Development Manager, Baumer hhs. "The CorrBox Solution combines high performance with flexibility, giving our customers possibilities they never had before, which is why it has become a runaway success. The new Bundle 24 function is fully integrated in our Xtend3 controller, making the CorrBox Solution even more attractive to customers, because it takes them one step closer to zero-defect packaging production."

Xtend3 controllers are known in the industry for being simple and intuitive to operate. Seamless integration of the bundle function in the control system, machine operators can now also access it on the Xtend3 controller's 21.5-inch HD multi-touch display. In other words, they do not need an additional controller or a separate control cabinet for the Bundle 24 function. "After purchasing the Bundle 24 CorrBox set and installing it in their flexo folder gluers, all customers need to do is have our Customer Care team enable the bundle function. Right away, they can start taking full advantage of this convenient function to remove defective boxes from their process," explains Schneiders.

The CorrBox Solution reliably detects all defective products and, downstream of glue control, marks them on the side. The new bundle function tracks the defective boxes with the help of three light barriers right up to the end of the machine's counting station, where it triggers a signal to the ejector to automatically remove bundles with defective boxes.

This efficiency gives Baumer hhs customers several advantages and sets the Bundle 24 function apart. Time



permitting, bundles with defective products can be removed by machine operators. There is no need to interrupt production and the machine can continue running at full speed. "Our customers also don't have to colour-code the bottom box in a bundle, which just generates additional waste. Our Bundle 24 function eliminates this practice, enhancing sustainability in packaging production. What is more, our solution does not need expensive camera systems for the ejector signal. In short, quality control in flexo folder gluer processes, with the aim of zero-defect production, has never been so easy and efficient," says Schneiders.

Baumer hhs customers can use any common ejector on the market with the new Bundle 24 function. "A wide range of flexible solutions that can be adapted to specific needs are available on the market for automatically ejecting flawed items. Examples include ejectors with integrated strappers for making bundles, or ejectors with ball transfer tables for low wear-and-tear during continued processing. We don't force our customers to work with a specific type of ejector that doesn't meet all their production requirements," concludes Schneiders. "In developing the CorrBox Solution system, we redefined adhesive application and monitoring in the production of corrugated packaging, and we took the same approach with our new bundle function. Consequently, it gives our customers in the corrugated industry new options for optimising their processes."

The new Bundle 24 function from Baumer hhs is available immediately for both new and existing CorrBox systems installed on flexo folder gluers.





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## PHD Chamber of Commerce and Industry Extends Support to Corru Pack Print India Expo 2024: Fostering Innovation in Packaging



**PHD CHAMBER**  
OF COMMERCE AND INDUSTRY  
VOICE OF INDUSTRY AND TRADE

The PHD Chamber of Commerce and Industry (PHDCCI) is actively engaged in supporting specific industry events that contribute to the growth and development of various sectors. Notably, the PHD Chamber is playing a supportive role in the Corru Pack Print India Expo scheduled for March 7-9, 2024. This expo serves as a platform for showcasing innovations and advancements in the corrugated packaging and printing industry.

This support aligns with the chamber's broader objectives of promoting industry, trade, and entrepreneurship, both nationally and globally. Such partnerships underscore the PHD Chamber's role as a dynamic and influential organization that actively engages with and supports initiatives driving progress and innovation in various sectors of the economy.

The PHD Chamber of Commerce and Industry (PHDCCI) has a rich history spanning 118 years, during which it

has played a crucial role in driving the growth of Indian industry. PHDCCI functions as a vital link between industry and government, working collaboratively to propel progress and ensure the integrated development of the Indian economy.

On the global front, PHDCCI actively collaborates with embassies and high commissions both in India and overseas. This collaboration aims to bring in international best practices and explore business opportunities that can further contribute to the growth and development of the Indian economy.

PHDCCI's headquarters, known as PHD House, is situated at 4/2 Siri Institutional Area, August Kranti Marg, New Delhi 110016. The organization can be contacted via email at phdcci@phdcci.in or by phone at 91-11-26863801-04 and 49545454. The central location in New Delhi signifies the organization's strategic presence in the heart of India's political and economic landscape.

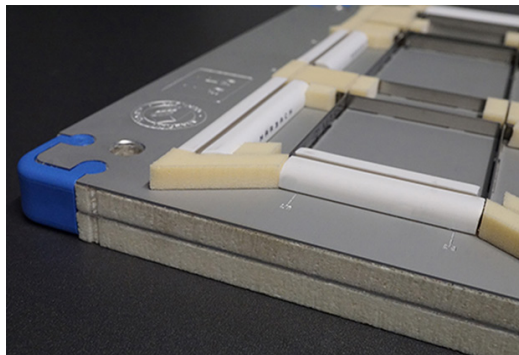
## duramar|alu cutting-die is new

**M**arbach has launched its dimensionally stable cutting-die duramar|performance under the name duramar|alu. It is now also available in an aluminium version.

This new tool in lightweight construction combines many technical advantages with significantly reduced weight and supports optimised handling in packaging production.

In the production of packaging, wood is normally used as die-board material for standard requirements. For higher demands on durability and accuracy in die-cutting, there are dimensionally

stable die-boards available. The selection of their materials and their structure ensure that they remain dimensionally stable even under hygroscopic influences and strong climatic fluctuations. In the past, the flagship and high-end tool at Marbach was the duramar|performance die-board. Now Marbach is setting new standards with its cutting-die duramar|alu.



duramar|alu is a tool whose die-board combines fibreglass strengthened plastic with aluminium sheets. This not only ensures maximum dimensional stability – even under changing climatic conditions – but also substantially less weight.

## Solidus experiments with reducing offset ink consumption

**T**o meet the sustainable packaging demand, Solidus is exploring innovative ways to reduce ink consumption. The company operates 11 production plants in seven countries, purchasing a lot of offset ink. The Solidus team became intrigued when ECO3 presented the clear benefits of SPIR@L™ screening and SolidTune image treatment.

The ECO3 SPIR@L and SolidTune technologies work well to deliver outstanding image quality while minimising ink usage. SPIR@L employs a straightforward yet highly

effective concept; it replaces conventional round or elliptical AM ink dots in offset printing with more efficient shapes, such as spirals. This innovative process reduces ink consumption by up to 12% compared to traditional methods, claims ECO3, resulting in a thinner ink layer that dries faster.

SolidTune follows a similar principle of reducing ink consumption for solid areas, although it can be applied to solids, dots and text. By perforating the solids with imperceptible 30-micron holes in a randomised pattern, SolidTune achieves the desired density with less ink, all without compromising image quality. Thanks to a unique edge protection algorithm, the technology preserves the edges of the dots for a crisper and cleaner print.

“The big difference in SPIR@L screening is that the spiral is not full,” explains Erik Peeters, Worldwide Marketing Manager – Software Solutions, ECO3. “By changing the thickness of the line, we can apply less ink while still maintaining colour density. This innovation not only reduces consumption but also addresses common printing issues, like ink smear. Both SPIR@L and SolidTune take advantage of dot gain to naturally close the holes, imperceptible to the naked eye.”



*Left to right: Erik Peeters (ECO3) and Filip Peeters, Senior Specialist Digital Prepress, Solidus.*





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## DS Smith Slovenia develops 'Easy Bowl' corrugated packaging solution

**D**S Smith Slovenia is working in partnership with Panvita Group, the largest Slovenian chain of food processing companies in the region, to reduce plastic across its Ave meat product line by more than 1.6 million pieces of packaging a year.

The DS Smith Easy Bowl consists of a corrugated cardboard tray that is laminated with a thin layer of plastic and sealed using flexible materials. The packaging solution is designed to replace up to 85% of plastic with lightweight cardboard from renewable raw materials, and the tray is made from recycled paper and is itself recyclable.

The external corrugated tray and inner protective film are ideal for keeping meat, fish, and prepared meals fresh with barrier resilience while simultaneously enhancing food safety and shelf life.



Simultaneously, the light and rigid structure of the design means that the amount of plastic used in the packaging and materials can be easily separated for recycling.

The Ave meat branded products are the first Panvita products to use the solution and can already be seen on store shelves and advertising billboards in Slovenia, and the DS Smith Easy Bowl has been developed in partnership with MULTIVAC, a packaging line company with thermoforming machines and tray sealers.

The DS Smith Easy Bowl innovation is the result of a two-year development process, and the solution addresses an increasing consumer awareness around the importance of reducing problem plastics in packaging, with a preference for replacing them with sustainable solutions.

# Event Synopsis

Corru Pack Print India, 7-9 March 2024 at IICC, Dwarka New Delhi.

## INTRODUCTION

Corru Pack Print India, scheduled to take place from March 7th to 9th, 2024, is poised to be a landmark event for the Corrugated Packaging Machinery Industry in India. Bringing together key players, industry experts, and innovators, the event aims to showcase cutting-edge technologies, foster collaborations, and explore the latest trends shaping the future of corrugated packaging machinery business.

## EVENT OVERVIEW

Event Name: **Corru Pack Print India 2024**  
 Dates: **March 7th to 9th, 2024**  
 Venue: **IICC, Yashobhumi, Dwarka-25, New Delhi**  
 Organizers: **ICPMA, Jointly organized by Futurex**  
 Website: **corrupackprintindia.org**

## KEY HIGHLIGHTS

### 1. Exhibition and Product Showcases:

- An extensive exhibition featuring leading companies and manufacturers in the Corrugated Packaging Machinery Industry in India - Showcase of the latest machinery, technologies, and materials driving innovation in the industry.

### 2. Technical Sessions and Workshops:

- Insightful technical sessions and workshops by industry experts covering topics such as sustainable packaging, digital printing advancements, and emerging trends in corrugated packaging design.

### 3. Networking Opportunities:

- Dedicated networking sessions providing attendees with the opportunity to connect with peers, potential business partners, and industry influencers.
- Informal networking spaces designed to encourage collaboration and the exchange of ideas.

### 4. Innovation Hub:

- An innovation hub highlighting breakthrough technologies and disruptive solutions in corrugated packaging machinery.
- Interactive displays and demonstrations offering a hands-on experience of the latest advancements.

## ANTICIPATION AND EXPECTATIONS

Corru Pack Print India 2024 is generating significant anticipation within the industry. With the global focus

on sustainable practices and the constant evolution of the technologies, attendees are eager to explore the showcased innovations, gain insights from experts, and establish valuable connections.

This focused event, catering to Paper corrugated packaging machinery industry is expected to provide a platform for businesses to stay ahead of market trends, discover new business opportunities, and contribute to the ongoing dialogue on sustainability in packaging.

## CONCLUSION

As we approach Corru Pack Print India 7-9 March 2024, the industry is abuzz with excitement, expecting a dynamic and enriching experience. The event promises to be a melting pot of ideas, technologies, and collaborations that will shape the future of corrugated packaging and printing. Stay tuned for comprehensive coverage and insights as we bring you the highlights from this pivotal industry event.

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*Interview Featuring:*  
**Exploring the Dynamics of the  
 Paper Corrugated Packaging Industry**

**Mr. Rajkamal Jindal** *(Managing Director),*  
**Cargo international Packagings**  
 1418-20, HSIIDC Industrial Estate, Rai, Sonapat, Haryana - 131029

In an era where sustainability and eco-friendly practices are at the forefront of global consciousness, the paper corrugated packaging industry stands out as a key player in providing environmentally responsible solutions. We sat down with Sh. Rajkamal Ji, who is serving this industry from the last 41 years, the managing director and an industry expert with Cargo international Packagings, Sonapat to delve into the nuances of the paper corrugated packaging sector and gain insights into its current state and future prospects.

**Question:** *Thank you for joining us today, Sh. Rajkamal Ji. To start, could you provide our readers with an overview of the current landscape of the paper corrugated packaging industry?*

**It's my pleasure.** The paper corrugated packaging industry is experiencing a significant surge in demand driven by several factors. First and foremost is the growing awareness and preference for sustainable packaging solutions. As consumers become more environmentally conscious, there is a noticeable shift towards materials that are renewable and recyclable.

**Question:** *That's an interesting point. How does paper corrugated packaging align with these sustainability goals, and what makes it a standout choice in today's market?*

**Paper corrugated** packaging is inherently eco-friendly. It is made from renewable resources, and the recycling rates for corrugated cardboard are impressive. Moreover, advancements in technology have allowed us to produce sturdy and versatile packaging solutions that not only meet the functional requirements but also address environmental concerns.

**Question:** *With the rise of e-commerce and changing consumer behaviors, how has the paper corrugated packaging industry adapted to meet evolving needs?*

**E-commerce** has indeed been a game-changer. The

industry has adapted by focusing on innovations in design and manufacturing processes. We see an increased emphasis on customization to cater to the diverse range of products being shipped. Additionally, there's a growing trend towards lightweight yet durable solutions to reduce transportation costs and environmental impact.

**Question:** *Looking ahead, what do you foresee as the key challenges and opportunities for the paper corrugated packaging industry?*

**One of the challenges** we face is the need for continuous innovation to stay ahead of market demands. This includes developing sustainable alternatives for coatings and inks used in printing. On the flip side, the shift towards circular economies presents a significant opportunity for the industry. As more countries and businesses commit to reducing waste, the demand for recyclable and biodegradable packaging will only increase.

**Question:** *Finally, any advice for businesses considering a transition to paper corrugated packaging or looking to enhance their current practices?*

**Embrace sustainability** as a core value. Consumers are increasingly making choices based on environmental considerations, and businesses that align with these values will undoubtedly stand out. Collaborate with suppliers who share the commitment to eco-friendly practices and explore innovations in design and materials that can enhance both the functionality and environmental performance of packaging.

#### CONCLUSION

As we conclude our conversation, it's evident that the paper corrugated packaging industry is not just adapting to change but actively driving positive transformations in the packaging landscape. The commitment to sustainability and continual innovation positions this sector as a crucial player in the global push towards a greener future.





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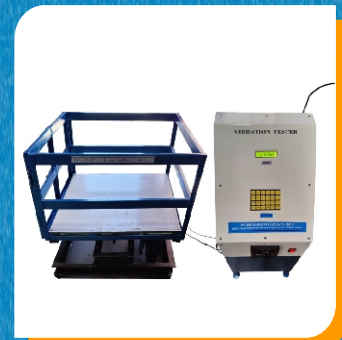
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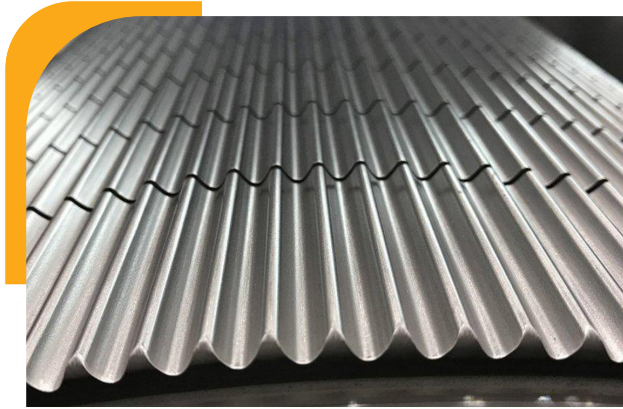
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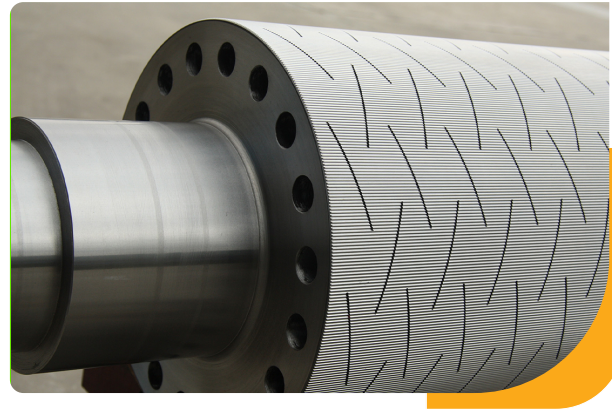


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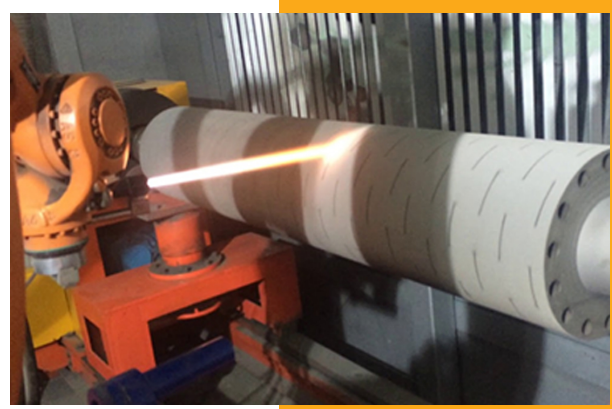
High Precision CNC Grinding Of Corrugated Flute Rollers  
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## The Eco Pen Revolution: A Sustainable Shift in Writing Instruments

In a world increasingly conscious of environmental impact, sustainable alternatives are gaining momentum in every aspect of our lives. One such revolutionary change is making its mark in the realm of writing instruments—the advent of the eco pen.

Traditional pens, with their disposable plastic bodies and non-biodegradable components, have long been a contributor to environmental pollution. The eco pen, however, is emerging as a solution that not only addresses the environmental concerns but also embraces innovation and style.

### The Eco Pen's Journey

The eco pen represents a departure from the conventional plastic pen, introducing a range of eco-friendly materials and design principles. Recycled paper, bamboo, cornstarch-based plastics, and other biodegradable materials are replacing traditional components, providing an eco-friendly alternative for conscious consumers.

### Sustainable Materials

Many eco pens are crafted from recycled materials, such as post-consumer plastic or even ocean-bound plastic, giving a second life to materials that would otherwise contribute to pollution. Bamboo, a fast-growing and renewable resource, is also a popular choice for pen bodies, providing a sleek and sustainable alternative.

### Refillable and Reusable

Unlike their disposable counterparts, eco pens are often designed to be refillable. This not only reduces waste but also makes them a cost-effective option in the long run. Consumers can simply replace the ink cartridge rather than discarding the entire pen, promoting a circular economy model.

### Biodegradability

One of the key features of eco pens is their biodegradability.

Composed of materials that break down naturally over time, these pens leave a minimal environmental footprint. From the ink to the outer casing, every component is carefully selected to ensure it aligns with sustainability goals.



### Innovation in Design

Eco pens are not just about sustainability; they also embrace innovative design. Manufacturers are exploring creative and ergonomic designs that not only enhance the writing experience but also contribute to the overall aesthetic appeal of the pen.

### Corporate Responsibility

Businesses and organizations are recognizing the importance of incorporating sustainable practices, including the use of eco pens. Many companies are now offering branded eco pens to align with their commitment to environmental responsibility, fostering a positive image and contributing to a green corporate culture.

### The Consumer Impact

The rise of the eco pen is indicative of a growing consumer demand for sustainable alternatives. As individuals become more environmentally conscious, they are actively seeking products that align with their values. The eco pen provides a simple yet impactful way for consumers to make a difference in their daily lives.

In conclusion, the eco pen represents a significant step toward a more sustainable and responsible future. As we witness this shift in the writing instrument industry, it becomes evident that small changes, like opting for an eco pen, can collectively make a substantial impact on our planet. By choosing pens that prioritize both functionality and environmental responsibility, consumers can contribute to a greener, more sustainable world—one pen stroke at a time.



# Porter's Five Forces Analysis of the Corrugated Boxes Industry in India:

## Bargaining Power of Suppliers

The bargaining power of suppliers in the corrugated boxes industry is moderate. While there are numerous suppliers of raw materials such as paper and cardboard, the industry requires consistent and high-quality inputs. The availability of alternative materials may mitigate supplier power to some extent. However, if the industry relies heavily on specific suppliers or faces fluctuations in raw material prices, supplier power could increase.

## Bargaining Power of Buyers

Buyer power in the Indian corrugated boxes industry is moderate to high. The industry serves a wide range of sectors, each with its specific requirements. Large buyers, such as major retailers or corporations, may have significant negotiating power due to high order volumes. However, the diversity of end-use industries and the need for specialized packaging solutions could limit buyer power, especially in segments where customized packaging is crucial.

## Threat of New Entrants

The threat of new entrants to the corrugated boxes industry

in India is moderate. While the industry is relatively mature, entry barriers include the need for substantial initial capital investment in machinery, technology, and infrastructure. Established players often benefit from economies of scale, creating a challenge for new entrants to compete on cost. However, innovative packaging solutions, sustainability practices, and technological advancements could open doors for new players with unique offerings.

## Threat of Substitutes

The threat of substitutes is moderate. While corrugated boxes are widely used across various industries, alternative packaging materials such as plastic, metal, and wood pose a substitution risk. The industry's response to sustainability concerns and the development of eco-friendly packaging options may influence the degree of substitution. Additionally, the industry's ability to continuously innovate and adapt to changing market demands will impact its resilience against substitutes.

## Intensity of Competitive Rivalry

The competitive rivalry in the corrugated boxes industry in India is high. Numerous players exist in the market, ranging from large-scale manufacturers to smaller regional suppliers. Factors such as price competition, quality differentiation, and the ability to meet specific industry requirements contribute to the intense rivalry. Innovation in packaging design, eco-friendly initiatives, and efficient supply chain management are critical elements for companies to gain a competitive edge.

## Conclusion

The corrugated boxes industry in India faces a dynamic business environment influenced by the interplay of supplier power, buyer power, the threat of new entrants, the threat of substitutes, and competitive rivalry. Navigating these forces requires a strategic focus on cost-efficiency, innovation, sustainability, and the ability to cater to diverse customer needs. Industry players should continually assess and adapt their strategies to maintain competitiveness in this evolving market landscape.

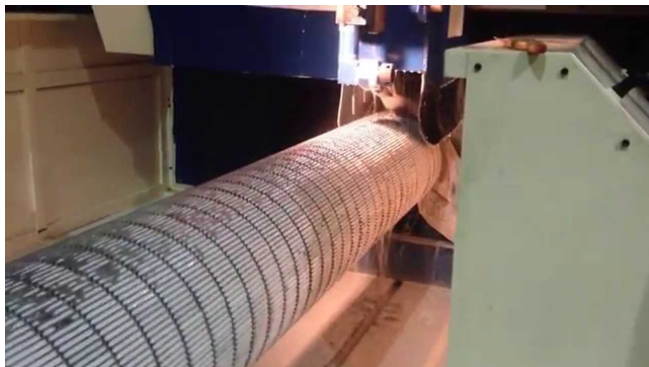


## Advancements in Flute Grinding: Revolutionizing Paper Corrugation Rolls:

In the intricate world of paper corrugation, where precision and efficiency are paramount, the latest developments in flute grinding technology are making waves. Flute grinding, a critical process in the production of corrugated rolls, has witnessed notable advancements that are reshaping the landscape of this industry. Let's explore the cutting-edge innovations that are taking flute grinding to new heights and enhancing the quality and performance of paper corrugation rolls.

### Ultra-Precision Grinding Techniques:

Precision is the heartbeat of flute grinding, and recent advancements have focused on achieving ultra-precision in the grinding process. Cutting-edge technologies, including advanced grinding machines and computer numerical control (CNC) systems, are now employed to achieve micron-level accuracy. This level of precision ensures that the flute profiles are consistently maintained, resulting in corrugation rolls that meet the highest standards of quality.



### Automation for Consistency:

Automation has become a cornerstone in modern flute grinding processes. Automated grinding systems are designed to offer consistency and repeatability, reducing the margin of error and ensuring that each corrugation roll meets exact specifications. This not only enhances the efficiency of the production process but also contributes to the overall quality of the corrugated packaging.

### Enhanced Grinding Wheel Technologies:

The grinding wheel is a critical component in flute grinding, and recent innovations in abrasive technologies have led to the development of wheels that deliver

superior performance. Advanced materials and coatings contribute to increased durability, longer wheel life, and improved cutting efficiency. This not only optimizes the flute grinding process but also reduces the frequency of tool changes, leading to enhanced productivity.

### 3D Profiling Capabilities:

The demand for intricate and customized flute profiles has driven the integration of 3D profiling capabilities in flute grinding machines. This allows manufacturers to produce corrugation rolls with highly specific flute geometries tailored to the unique requirements of diverse packaging applications. The flexibility provided by 3D profiling opens doors to innovative and specialized corrugated packaging solutions.

### Real-Time Monitoring and Control:

In the era of Industry 4.0, flute grinding processes are becoming smarter with real-time monitoring and control systems. These systems utilize sensors and data analytics to monitor crucial parameters during the grinding process. Any deviations from the specified tolerances can be detected and corrected in real time, ensuring the consistency and quality of the corrugation rolls.

### Environmentally Conscious Grinding Practices:

Sustainability is a key consideration in modern manufacturing, and the flute grinding sector is no exception. The latest developments in flute grinding machinery prioritize energy efficiency and waste reduction. Manufacturers are adopting environmentally conscious practices in their processes, aligning with the global movement towards greener and more sustainable manufacturing practices.

In conclusion, the latest advancements in flute grinding for paper corrugation rolls signify a paradigm shift in the industry. Precision, automation, advanced materials, 3D profiling, real-time monitoring, and sustainability have become the pillars of innovation in flute grinding technology. As these technologies continue to evolve, the paper corrugation industry can anticipate even higher levels of precision, efficiency, and customization in the production of corrugated rolls, contributing to the ongoing evolution of packaging solutions worldwide.



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## Interview Featuring: Breaking boundaries in printing: A deep dive into the latest innovations in ink technology with...

**Mr. Rajkumar Lodha** *(Managing Director)*  
**Seven - 11 Industries**, Survey No. 477/47/007 to 009, Plot No. K-49 to  
51, Morai Industrial Park, Morai, Kunta, Vapi, Gujarat

Good day, everyone. Today, we have the pleasure of speaking with Sh. Rajkumar Lodha Ji leading Manufacturer of Printing Inks & Press Chemicals, Sh. Rajkumar Lodha, thank you for joining us.

**Question:** *To start off, could you provide our readers with an overview of the latest advancements in ink technology, particularly in the printing industry?*

Thank you for having me. It's a pleasure to talk. Absolutely, In recent years, there have been significant developments in ink technology that have revolutionized the printing landscape. One notable trend is the rise of environmentally friendly inks. Water-based inks, for instance, have gained popularity due to their reduced environmental impact compared to traditional solvent-based inks.

**Question:** *That's interesting. How do water-based inks differ from traditional solvent-based inks, and what advantages do they offer?*

Water-based inks, as the name suggests, use water as the primary solvent instead of organic solvents. This makes them a more sustainable and eco-friendly option. They emit fewer volatile organic compounds (VOCs), contributing to a healthier work environment. Additionally, water-based inks are known for their vibrant colors and ability to adhere well to various substrates.

**Question:** *It sounds like sustainability is a significant driver in ink technology. Are there other eco-friendly ink options that are gaining traction?*

Yes, another notable development is the use of UV-curable inks. These inks are cured or dried using ultraviolet (UV) light rather than heat. UV-curable inks offer several advantages, including faster curing times, reduced energy consumption, and the ability to print on a broader range

of substrates. They also produce minimal VOCs, aligning with the industry's push towards sustainability.

**Question:** *That's fascinating. In terms of application, are there specific industries or printing processes where these new ink technologies are making the most impact?*

Absolutely, the packaging industry has seen significant advancements. Water-based and UV-curable inks are increasingly being used in flexographic and digital printing for packaging materials. Their fast curing times and ability to print on diverse substrates make them ideal for this application. Additionally, digital printing technologies, which often use eco-friendly inks, have gained popularity in industries where customization and short print runs are essential.

**Question:** *As technology continues to evolve, what can we expect in the future of ink technology?*

The future holds exciting possibilities. We can anticipate further developments in nanotechnology, allowing for the creation of inks with enhanced properties, such as improved conductivity or specific functionalities for electronic applications. Additionally, research is ongoing in the realm of 3D printing inks, opening up new avenues for manufacturing and product design.

**Question:** *Thank you, Sh. Rajkumar Lodha Ji, for sharing your insights on the latest in ink technology. It's clear that these advancements are not only transforming the printing industry but also contributing to a more sustainable and innovative future.*

My pleasure. It's an exciting time for ink technology, and I look forward to witnessing further breakthroughs in the coming years.



# Rising from the Ashes: Triumph Over Adversity

Life's journey is often a winding road, punctuated by unforeseen challenges that can leave us feeling broken and defeated. Yet, it is in the face of adversity that the human spirit reveals its remarkable resilience. In this article, we explore the stories of individuals who, like phoenixes rising from the ashes, have turned their adversities into triumphs, proving that the human spirit is indomitable and that every setback is an opportunity for a greater comeback.

## From Setback to Comeback

Adversity doesn't discriminate; it touches lives in myriad ways. The individuals we spotlight in this piece have faced everything from personal loss and health crises to financial setbacks and professional challenges. What unites them is not the absence of adversity but their unwavering determination to transform setbacks into comebacks.

## The Power of Mindset

In the face of adversity, mindset becomes a powerful tool. Those who have triumphed over challenges often share a common trait — a positive and resilient mindset. Rather than succumbing to despair, they chose to see challenges as opportunities for growth and transformation. This shift in perspective became the catalyst for their remarkable comebacks.

## Turning Pain into Purpose

The journey from adversity to triumph is not just about overcoming obstacles; it's about finding meaning and purpose in the struggle. Many of the individuals we feature discovered that their most profound moments of growth occurred during their darkest hours. Through introspection, they turned their pain into a driving force for positive change.

## Perseverance and Resilience

Perseverance is the fuel that propels individuals through the toughest times. Our featured individuals did not give up when faced with adversity; instead, they embraced resilience as a guiding principle. Each setback became

a stepping stone, and every challenge was met with a determination to endure and overcome.

## Community and Support

Triumph over adversity is rarely a solo journey. The support of friends, family, mentors, and communities played a crucial role in the comeback stories we explore. Connection and a sense of belonging proved to be powerful allies, providing strength and encouragement when it was needed most.

## Innovative Approaches to Challenges

Adversity often requires creative solutions. The individuals we highlight didn't merely navigate their challenges; they approached them with innovative and out-of-the-box thinking. Whether it was finding new ways to generate income, adapting to a changed circumstance, or redefining personal goals, they showcased resilience through innovation.

## Celebrating Success Amidst Struggle

Triumph does not always mean the absence of struggle; it often coexists with it. The individuals in our stories found success not despite their challenges but amidst them. Their achievements are not just victories over adversity but celebrations of the strength and tenacity that emerged from facing those challenges head-on.

## Inspiring Others to Rise

These stories of triumph are not just personal victories; they are beacons of hope for others navigating their own storms. By sharing their journeys, these individuals inspire others to believe in the possibility of a comeback, proving that setbacks can be stepping stones to something greater.

## Conclusion

As we navigate the complexities of life, let the stories of those who have triumphed over adversity be a source of inspiration. May they remind us that even in our darkest hours, there is a resilience within us waiting to be ignited. The human spirit is not defined by the challenges it faces but by the triumphant comebacks that arise from the ashes of adversity.

## How can you paint your life like a masterpiece?

*"You are the artist of your life.  
Don't give the paintbrush to anyone else."  
– Iva Ursano*

**Y**our life is your canvas. When you are born, it is blank. Your choices are the colours that you fill it up with.

**How will your canvas shape up in the end? Will it be just another painting or a masterpiece? This will entirely depend upon how well you lived and the choices you made.**

You are the artist of your life. You are 100% responsible for how it shapes up. No one else can change your reality. You are free to paint anything. So, don't hold back. Make mistakes. Experiment. Stretch your horizons. Give it all you have got. Build a masterpiece.

### Have a clear vision

**What is the difference between a piece of music or an art that is easily forgotten and one that touches your heart? Clarity in vision.**

The painter who paints a masterpiece has complete clarity about the outcome even before he picks up his paint brush. In his mind's eye he has already envisioned the painting. He can clearly see how it would look once complete, the colours that would shape it up, techniques that would be used and the message that it would communicate. This clarity ensures that the end outcome is just as it was meant to be.

In life, have clarity of purpose and vision. Write down your aspirations. Define your milestones and end goals. Jot down the path that would take you there. This will help you to stay right on track and paint your life just as you desire it to be.

### Dare to experiment

**Could Leonardo da Vinci paint Mona Lisa had he not dared to experiment?**

Going a tried & tested route is easy. But the only way to create a masterpiece is to dare and do something different. Have the courage to be unconventional. Explore your unique strengths. Follow your heart. It's not going to be easy. You will make mistakes and fall. But you will also learn and get better in the process. You will gain new ideas. You will discover what you are best at and use it to create your own masterpiece.

### Expand your horizons

**Why are children quick learners? Why does learning slow down as we grow up?**

This is because children are always open to new learnings. They are constantly exercising their brain power to gain new information and knowledge. They are always aiming for the impossible. As a result they are always bettering themselves and growing each day.

Learn from children. Don't let your brain muscles rest. Keep pushing your limits. Dare to learn something new even if it is outside your comfort zone. A great work of art and a best-lived life is always backed by constant learning and consistent efforts. Aim for both!

### Be patient. Be perseverant

No memorable work of art has been created in a day. It takes too many mistakes, much resolve and many months and years for an artist to bring his vision to life.

In the canvas of life, be like an artist. Always strive to polish your craft. Take out time, be firm in your determination and unwavering in your efforts. If you want your life to turn out as you want it to be, you will have to be patient & stay focussed on your vision. Embrace new ideas, be open to suggestions, develop new skills and rework on your old ones, gain fresh experiences, and learn from your failures.



# Purify Your Energy: 7 Captivating Ways to Cleanse Your Aura and Elevate Your Well-being

Everyone has an aura. Whether they see it or not, believe it or not, aura is as much a part of them as their blood and flesh.

## What is an aura?

Aura is a subtle energy field that surrounds our physical body. It is like a rainbow that acts as a magnetic field, constantly picking up and responding to our emotions, thoughts, and external environment. In simpler terms, aura is the vibration that people feel when they are with you. You may have noticed that some people make you feel good and positive while you may have a bad feeling about some others. This has a lot to do with their aura.

## Signs that you need to cleanse your aura

Often, our aura gets weak when we become susceptible to negative energies that harm us emotionally, mentally, physically, etc., creating an energetic build up.

Here are a few symptoms that tell you that your aura is weak and needs to be cleansed-

- Feeling stressed, anxious, confused, frustrated, irritated or depressed
- Falling sick a little too often without any specific reason
- In a perpetual state of exhaustion, both mentally & physically
- Unable to sleep properly
- Feeling demotivated no matter what you do
- Feeling overwhelmed with life
- Experiencing ongoing mental chatter
- Feeling lethargic
- & negative for no reason

## How to cleanse your aura?

Negative people, stressful situations, day-to-day drama, and other emotionally-charged events can pull down your energies and dirty the aura. It is important to cleanse this energetic build up and strengthen the aura again. The good part is that doing this is quite easy. With some simple do-it-yourself aura-cleansing tricks that can be practiced at home, you can regain your energy and spread good vibes.

## Walk in the rain

This is the simplest and a very powerful purification element to rejuvenate your spirit and cleanse your aura. Step out when it is raining, gently close your eyes and experience the rainwater draining away all your toxic energy and negativity. Doing this barefoot is more beneficial as it help you ground your aura. Try doing this when the rain is gentle and not accompanied with thunderstorms.

## Smudging

Smudging is an ancient practice of cleansing your aura with the help of sacred herbs, resins, or wood such as sage, rosemary, lavender, frankincense or palo santo. Simply burn bundles of these and pass the smoke arising from it to every part of your body. While doing so, focus and hold your intention on purification of your aura.

## Aura-cleansing bath

Taking a bath is known to be one of the easiest and earliest ways of cleansing your aura. No wonder you feel so great after stepping out of a shower. For an aura cleansing bath, add some Himalayan salts, sacred herbs, and essential oils like eucalyptus, lavender, frankincense, or orange to your bathtub. Dip yourself in it for at least ten minutes. As you do so, feel the aroma soaking in and visualize your worries and negativity washing away. Discard all the herbs, essential oils & salts after every use.

## Sound cleansing

Sound cleansing is a technique to use the strokes of powerful music instruments to shake off the bad vibes and rejuvenate the aura. Vibrations released through instruments like a handheld chime, ceremonial drum, tuning forks, or a Tibetan singing bowl can be very effective here.

## Soak in sunlight

Sunlight is nature's own way of purifying your aura and soaring the spirits. Just 20 minutes under the Sun's beautiful rays can make you feel very optimistic and nourished. Not to forget the infinite benefits that you reap by absorbing the essential Vitamin D from the Sun.

## Grounding

Walking barefoot outdoors, known as grounding or earthing is essential to experience life to its brim. By doing so, you engage in a process that purifies and revitalizes your aura.

Moreover, this practice offers natural immune-boosting benefits, enhances your mood, and fosters a profound connection to the earth, allowing its energy to flow through your feet and create a sense of being grounded.

## Mantras & Affirmations

The power of mantras and positive affirmations have been known since centuries. Find a peaceful location and imagine being enveloped by a radiant, effervescent white light. With your eyes closed, begin reciting mantras and positive affirmations that resonate with you. Repeat these affirmations as many times as you wish until you sense their resonance vibrating throughout your body. Make it a daily practice to strengthen your energy field.

## Dietitians React to Social Media's Hottest Food and Nutrition Trends in 2023

BY LAUREN JOSKOWITZ THE EDITORIAL DIRECTOR AT MYFITNESSPAL, A CERTIFIED HOLISTIC NUTRITIONIST AND THE PRODUCER AND HOST OF THE CLEAN BODY PODCAST



As we navigate the ever-evolving world of social media, it's no surprise that trends in food and nutrition come and go. Platforms like TikTok, YouTube, and Instagram have become go-to sources for health and wellness advice. In fact, a recent study conducted by MyFitnessPal found that 47% of people surveyed trust TikTok when it comes to providing reliable nutrition and health advice.

According to the same study, both Millennials and Gen Z turned to TikTok for nutrition and health guidance in 2023, with 87% of people surveyed using the platform for such advice, and 57% of people surveyed reported being influenced by or frequently adopting nutrition trends from TikTok. The numerous captivating trends, including internal showers and cottage cheese ice cream, captured the attention of health enthusiasts, foodies, and inquisitive minds alike. So, we asked our registered dietitians at MyFitnessPal to give us the real skinny on these trends. Do they get a "Yay!" or "Nay!" based on credible scientific research? Keep reading to find out.

### TREND 1: INTERNAL SHOWER

#### What it is:

The premise is simple: add two tablespoons of chia seeds to a glass of water with a squeeze of lemon, let the drink

sit, and then consume it. Some people recommend it as a pre-flight drink to prevent constipation.

#### Dietitian verdict: Yay!

Steph Tarnacki says, "This can be an effective to activate your gastrointestinal system."

#### What to know:

Chia seeds are rich in fiber, with one serving (2.5 tbsp) providing approximately 10g of soluble fiber. Tarnacki explains, "Chia seeds contain mucilage, which creates the sticky, gel-like texture of chia seed water. Fiber not only aids regularity but also lowers LDL cholesterol, prevents blood sugar spikes, and promotes a feeling of satiety." Eating more fiber-rich foods, exercising regularly, and staying hydrated are always ways to support healthy digestion.

### TREND 2: LIQUID CLEANSE

#### What it is:

A liquid cleanse, often referred to as a detox or juice cleanse, is a type of diet that involves consuming only liquids for a certain period of time. These cleanses typically include a variety of juices or smoothies made from fruits and vegetables, herbal teas, and water. The aim is to flush toxins out of the body. Advocates of liquid cleanses argue



that they can help rest the digestive system, improve energy, support weight loss, and boost overall health.

Social media platforms, particularly TikTok, played a pivotal role in spreading the trend of liquid cleanses in 2023. Users across the globe shared their experiences, with the TikTok hashtag #juicecleanse amassing millions of views.

**Dietitian verdict: It's complicated...**

"In certain cases, a temporary liquid diet may be effective in treating certain medical conditions when deemed appropriate by a healthcare professional," explains Daisy Mercer. "In most other cases, your digestive system does not need a break, and this does not help rid the body of 'toxins.'"

**What to know:**

If your body is functioning normally, you do not need to periodically cleanse it. Your kidneys and liver should effectively remove anything harmful from your body. By eliminating whole foods from your diet, you actually can starve your beneficial gut bacteria of essential nourishment and nutrients needed to thrive. This can cause gastrointestinal issues, including symptoms like diarrhea.

"Eat a balanced diet with lots of fiber to help feed the good bacteria in your gut," suggests Mercer. "This will help with regular bowel movements and a generally happier digestive system. Taking pre- and probiotics can also help maintain a healthy gut microbiome."

**TREND 3: RAW CARROT SALAD**

**What it is:**

This trend involves consuming a daily serving of raw, shredded carrots dressed with a bit of vinegar and olive oil. Advocates claim that it's not only a tasty, fiber-filled addition to your daily meals, but also a magical detoxifier. The theory is that raw carrots bind to toxins and excess estrogens in your body, helping to eliminate them. This trend gained popularity among health enthusiasts on TikTok, with users sharing their creative carrot salad recipes and the health benefits they've experienced.

**Dietitian verdict: Nay!**

"Though many people on TikTok attribute the raw carrot salad to balancing their estrogen levels, the scientific literature doesn't support the claim that carrots have a unique ability to do so," explains Emily Sullivan.

**What to know:**

While some research suggests that diets rich in fiber may contribute to lower levels of circulating estrogen,

they don't specifically focus on raw carrots. In general, high-fiber diets have been shown to reduce the risk of cardiovascular disease, diabetes, breast cancer, and colon cancer. Therefore, incorporating more fiber into your diet through fruits, vegetables (including carrots!), and whole grains can benefit your overall health in multiple ways.

"But hormonal imbalances are complex medical conditions that can be influenced by multiple factors such as lifestyle, diet, medications, and underlying diseases," explains Sullivan. "Therefore, the treatment for hormone imbalances is often multifaceted and dependent on the specific underlying cause."

In other words, eating carrot salad is fine — great even, since 1 cup of carrots contains 3g of fiber, as well as vitamin A, vitamin K, and the antioxidant beta-carotene among other nutrients — but it's likely not a cure-all for hormone imbalances.

**TREND 4: DETOX FOR WEIGHT LOSS**

**What it is:**

Detox for weight loss is often promoted on social media as a quick-fix solution to shed pounds and rid the body of toxins. The recipes vary but typically involve a blend of fruits, vegetables, herbs, and sometimes a magic superpowder, all blended into a smoothie or tea.

**Dietitian verdict: Nay!**

"There is little evidence to support the effectiveness of detox drinks or diets," says Joanna Gregg. "Much of the research conducted on this topic has been on animals or a small sample size without a control group."

**What to know:**

"Detox diets or elimination diets may lead to short-term weight loss by restricting calorie intake, but the weight is usually regained when a normal diet is resumed," explains Gregg. "As for detoxing, there is limited evidence that specific nutrients can eliminate toxins from the body."

For optimal health and weight management, Gregg recommends following a well-balanced diet that includes fruits, vegetables, whole grains, low-fat dairy, and lean proteins. Increasing physical activity is also crucial.

If your goal is targeted weight loss, it's important to reduce calorie intake and increase caloric output through exercise or physical activity.

In general, instead of eliminating all food or following a detox plan, eliminate the foods and beverages that are impacting your diet. Think: alcohol, sugary drinks, or processed foods. Instead, focus on nourishing your body with whole, nutrient-rich foods.

**TREND 5: FOODS THAT BURN STOMACH FAT****What it is:**

This trend promotes certain foods that are believed to reduce belly fat, including avocados, green tea, chili peppers, and berries. The idea is that these “superfoods” can target and eliminate stubborn fat in your midsection, offering a simple solution.

**Dietitian verdict: Nay!**

According to Katherine Basbaum, these foods alone do not have enough impact to make a significant difference.

**What to know:**

Just as there is no specific exercise to reduce belly fat (known as “spot reduction”), there is no magic bullet food that can specifically target and melt fat in the stomach area, says Basbaum.

“While some research suggests that foods like green tea, chili peppers, meat, fish, and avocado can increase thermogenesis (the process by which the body burns calories), many of the studies involve much higher and more concentrated dosages than what a person would typically consume in a day.”

It’s also important to remember that the majority of our calories are burned through regular daily activities, metabolic functions, and exercise. Only about 10 percent of calories are burned through diet-induced thermogenesis.

Moral of the story? Don’t rely on thermogenic foods to burn belly fat. Instead, focus on quantity and quality. Tracking calories and macros is important; so is improving the quality of your food. The more you nourish your body with the right foods, the easier a weight loss journey can be.

Need help mastering these principles? Join the MyFitnessPal app for free.

**TREND 6: CARNIVORE DIET****What it is:**

As the name suggests, this diet focuses exclusively on animal products. Think steaks, chicken, fish, eggs, and dairy. If it’s from an animal, it’s on the menu. That means no fruits, no veggies, and certainly no grains or legumes. Proponents of the Carnivore Diet praise its simplicity and claim it can lead to weight loss, improved heart health, and enhanced mental clarity.

**Dietitian verdict: Nay!**

“The carnivore diet is a controversial trend that involves consuming only animal products and excluding all plant-based foods,” explains Emily Sullivan. “Advocates claim that this diet can lead to weight loss, improved mental

clarity, and reduced inflammation.”

**What to know:**

The carnivore diet is highly restrictive, excluding several nutritious food groups, and makes some pretty bold health claims.

“Limited research exists on this diet, so its health effects and tolerability are largely unknown,” says Sullivan. “When we don’t have research on a topic, we must default to the research that we do have. Eating a variety of animal and plant foods has consistently shown favorable health outcomes in nutrition research.”

Concerns about the carnivore diet include its unsustainability for humans and the planet, as well as potential nutrient deficiencies in Vitamin C and fiber.

“Vitamin C is essential for immune function and may prevent or delay the onset of certain cancers and cardiovascular disease. Plus, a deficiency can lead to scurvy,” explains Sullivan. “Fiber is important because it supports digestive health, increases satiety, and has been associated with reduced risk of cardiovascular disease, breast and colon cancer, and type 2 diabetes.”

A carnivore diet also cuts out compounds called phytochemicals. “Phytochemicals are found exclusively in plants and have antioxidant properties that decrease the risk of many diseases.”

As if that’s not enough, experts also worry about an increased risk of cardiovascular disease due to the diet’s high saturated fat content and lack of heart-healthy unsaturated fats. “According to the American Heart Association, saturated fats should be replaced with unsaturated fats to reduce the risk of heart disease, a leading cause of death in the US. That is nearly impossible to do on the carnivore diet.”

TL; DR? Questioning extremely restrictive diets, except in necessary instances like medical or cultural reasons, is important to avoid potential harm to physical and mental health.

**TREND 7: DRY SCOOPING****What it is:**

This practice gained popularity in the fitness and health community, particularly among frequent gym-goers. It involves consuming pre-workout powder directly, without mixing it with water or any other liquid as traditionally done. Supporters of dry scooping claim that it provides a faster and more intense energy boost, similar to a turbo-charged espresso shot for your workout.

**Dietitian verdict: Nay!**

“Although there are anecdotal reports of benefits such



as increased energy from dry scooping pre-workout supplements, this practice can be dangerous," says Brookell White. "While it is uncertain if any benefits are possible, it is known to cause harmful side effects."

**What to know:**

According to the National Capital Poison Center, dry scooping has resulted in serious health issues, including cardiac problems, choking, and difficulty breathing.

"Supplements are not well regulated in the US and can contain unknown ingredients or amounts that vary from the packaging. This can be dangerous and effects may be exacerbated when the product is not first diluted," explains White. "Dry scooping leads to a higher concentration of ingredients being consumed all at once. Pre-workout products can contain multiple stimulating ingredients and often have two to three times the caffeine compared to a cup of coffee. This can result in unwanted side effects such as increased heart rate, chest pain, dizziness, anxiety, cardiac issues, and tremors."

Basically, don't dry scoop.

**TREND 8: HEALTHY COKE WITH BALSAMIC VINEGAR**

**What it is:**

This trending hack involves adding balsamic vinegar to sparkling water as a healthier alternative to soda. It is believed to replicate the taste of Coca-Cola while providing certain health benefits such as improved digestion and blood sugar control.

**Dietitian verdict: Nay!**

Daisy Mercer explains, "The effectiveness of this hack is hard to determine as it depends on the individual and their medical conditions. While I can't guarantee its effectiveness, consuming it in moderation is unlikely to be harmful."

**What to know:**

According to Mercer, "Some studies have suggested that balsamic vinegar may help increase insulin sensitivity, but more research is needed to establish its effectiveness. As for improved digestion, there is no scientific evidence supporting its impact on digestion."

If you want to give it a try, go ahead! Let us know if it actually tastes like Coca-Cola.

**TREND 9: LETTUCE WATER**

**What it is:**

The lettuce water trend involves steeping lettuce in hot water, similar to making tea. This trend claims that drinking lettuce water can improve sleep quality. Some lettuces, like romaine lettuce and wild lettuce, contain a phytonutrient called lactucarium. It's believed that lactucariums can

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induce sleep and promote relaxation, hence #lettucewater. The trend on TikTok garnered over 31 million views in 2023 and inspired numerous videos.

**Dietitian verdict: Nay!**

“Although many people have reported its effectiveness on social media, there is no scientific evidence supporting lettuce water as an effective sleep aid,” says Katherine Basbaum.

**What to know:**

Basbaum explains that the popularity of this concept stems largely from a 2017 Korean study conducted on mice.

“Mice were given lettuce extract along with the sedative

drug Phenobarbital,” she said. “While the study suggested that the lettuce extract enhanced the drug’s effectiveness, it did not indicate that consuming lettuce or lettuce water alone had any sleep-inducing effects. It is important to note that this was an animal study and may not accurately predict human reactions.”

The good news is that although the lettuce water trend lacks scientific support, trying it is harmless.

“When it comes to proven sleep aids, consider avoiding caffeine, alcohol, or heavy meals before bedtime, reducing screen time before bed (as the blue light can disrupt your sleep-wake cycle), and increasing daytime physical activity.”

# IIP Supports Corru Pack Print India: A Comprehensive Overview of the Indian Institute of Packaging

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# The Growing Trend of Compostable Straws: Navigating the Market Landscape

## INTRODUCTION

As the global movement towards sustainability gains momentum, the market for eco-friendly alternatives continues to expand, and one such area experiencing significant growth is compostable straws. This article delves into the dynamics of the compostable straws market, exploring the drivers behind the trend, market players, and the environmental impact of this innovative solution.

## THE RISE OF COMPOSTABLE STRAWS

Traditional plastic straws have long been a symbol of single-use plastic pollution, prompting a shift in consumer preferences and regulatory measures worldwide. Compostable straws, made from plant-based materials like cornstarch, sugarcane, or PLA (polylactic acid), have emerged as a sustainable substitute, offering a solution to the environmental challenges posed by their plastic counterparts.

## MARKET DRIVERS

- 1. Environmental Concerns:** With increasing awareness of the harmful effects of plastic pollution on oceans and wildlife, consumers are actively seeking alternatives that leave a minimal ecological footprint.
- 2. Regulatory Initiatives:** Governments and municipalities worldwide are implementing regulations aimed at reducing single-use plastics. This has accelerated the adoption of compostable straws as businesses seek compliant alternatives.
- 3. Corporate Sustainability Goals:** Many businesses are aligning with sustainability goals by adopting compostable straws as part of their commitment to environmental responsibility. This move not only enhances brand image but also meets the demands of eco-conscious consumers.

## KEY MARKET PLAYERS

Several companies have emerged as key players in the compostable straws market, contributing to its rapid growth. These players are at the forefront of innovation,

developing new materials, manufacturing processes, and distribution channels.

## ENVIRONMENTAL IMPACT

Compostable straws break down naturally into non-toxic components, leaving behind nutrient-rich compost. Unlike traditional plastic straws, they do not contribute to the persistence of plastic waste in landfills and oceans. The use of renewable resources in their production further reduces the carbon footprint associated with their lifecycle.



## CHALLENGES AND FUTURE OUTLOOK

While the compostable straws market is expanding rapidly, challenges such as cost and infrastructure for industrial composting remain. As technology advances and awareness grows, these challenges are likely to be addressed, paving the way for broader adoption.

In conclusion, the compostable straws market is a vibrant and rapidly evolving sector, driven by a collective global commitment to sustainable practices. As consumer preferences continue to shift towards eco-friendly alternatives, the market for compostable straws is expected to witness sustained growth, contributing to a greener and more sustainable future.





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Corrugated Packaging Market size was valued at USD 70 billion in 2022 and is poised to depict a 4% CAGR through 2023-2032, The increase in demand for Corrugated Packaging is anticipated due to rapid industrialization in developing economies, environmental sustainability and cost benefit associated with Corrugated Packaging.

The India Corrugated Boxes Market size reached US\$ 6.5 Billion in 2022 and is expected to reach US\$ 12.3 Billion by 2028, exhibiting a growth rate (CAGR) of 10.8% during 2023-2028.

The growth of E-commerce has boosted the demand of corrugated packaging materials in the recent years. With various new international e-commerce players entering the developing markets, the demand from e-commerce sector is expected to increase further.



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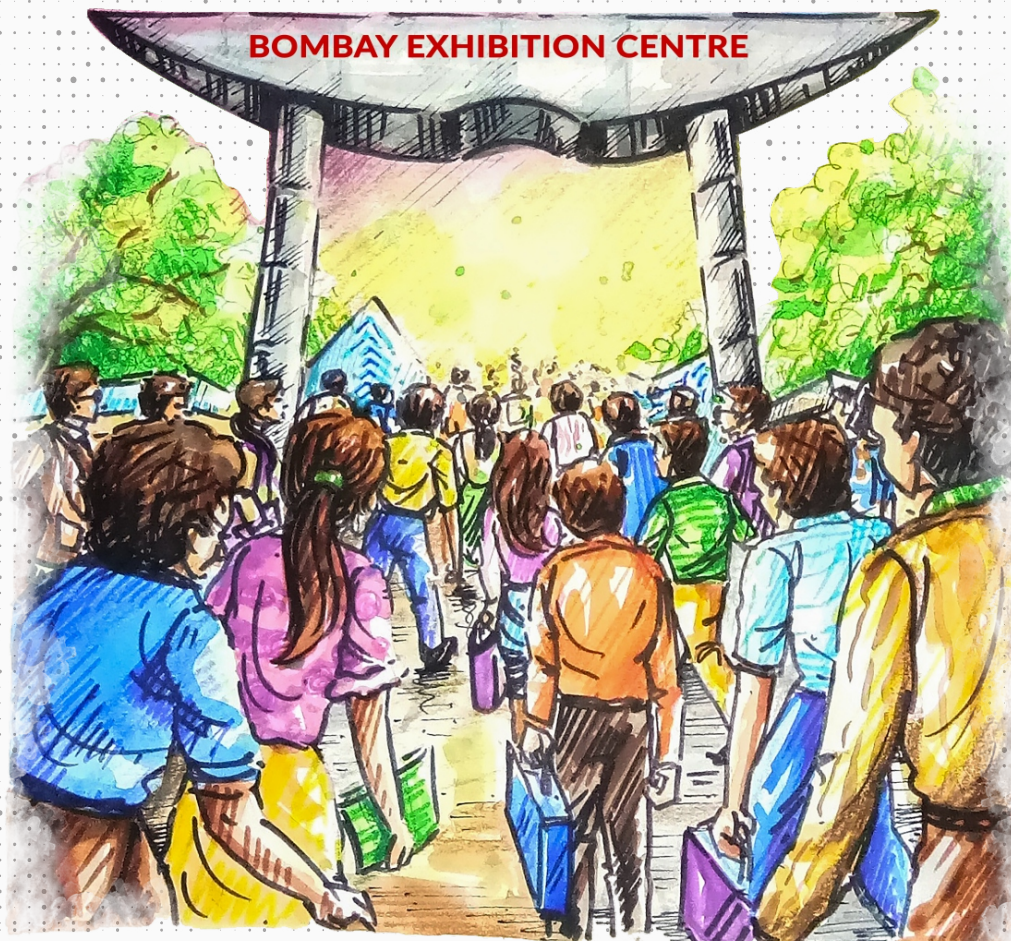
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OF INDIA



corrutar

"पर्यावरणरक्षणम्" परमो धर्मः



HOST  
G.C.B.M.A.  
CORRUGATED BOX  
MANUFACTURE  
CHARITABLE  
ASSOCIATION

7<sup>th</sup>-9<sup>th</sup> January 2024

Venue : Resort Rio, Goa

## 7<sup>th</sup> JANUARY 2024, SUNDAY

### Welcome Delegates

09.00 AM TO 3.30 PM

### 51<sup>st</sup> Conference Registration

09.00 AM Onwards

### Receiving of Corrutar Award Entries

10.00 AM TO 01.00 PM

### Tea/Coffee

11.00 AM TO 11.30 AM

### Table Top Exhibition Inauguration

11.30 AM TO 12.00 PM

### 5<sup>th</sup> Managing Committee Meeting of FCBM

12.00 PM TO 01.30 PM

### Lunch

01.30 PM TO 03.00 PM

### Judging Corrutar

02.30 AM TO 3.30 PM

### Motivational Seminar

03.00 PM TO 04.00 PM

### Tea/Coffee

04.00 PM TO 04.30 PM

### 51<sup>st</sup> FCBM Conference Inauguration

05.00 PM TO 06.45 PM

### Visit- Corrutar Entries Display Exhibition

06.45 PM TO 07.30 PM

### Cultural Program, Networking Gala Dinner

07.30 PM Onwards

## 8<sup>th</sup> JANUARY 2024, MONDAY

### Technical Session I

09.30 AM TO 11.30 AM

### Tea/Coffee Break

11.30 AM TO 11.45 AM

### Technical Session II

11.45 AM TO 01.45 PM

### Lunch

01.45 PM TO 03.00 PM

### 51<sup>st</sup> Annual General Meeting (AGM) of FCBM

03.00 PM TO 06.00 PM

### Tea/Coffee

04.30 PM TO 05.00 PM

### 1<sup>st</sup> Managing Committee Meeting of FCBM

06.00 PM TO 06.30 PM

### Buyer - Seller Meet

06.30 PM TO 07.30 PM

### Ladies Activities and program

10.00 AM TO 12.00 PM

### Lunch Time (Ladies Only)

12.00 PM TO 01.30 PM

### Shopping Time and City Tour for Ladies only

01.30 PM TO 05.00 PM

### Cultural Program, Networking and Dinner

07.30 PM Onwards

## 9<sup>th</sup> JANUARY 2024, TUESDAY

### Technical Session III

09.30 AM TO 11.00 AM

### Lunch

12.00 PM TO 01.30 PM

## Conference Activities

51<sup>st</sup> FCBM Conference Inauguration

Table Top Exhibition

Technical Seminar

Motivational Seminar

Ladies Activities and Program

Buyer - Seller Meet

Award Felicitation

## Venue

Resort Rio, North Goa



## For Registration Now

G.C.B.M.A. Corrugated Box Manufacture Charitable Association  
Admin Office: SF/201-202-203, Park View Exchange, Nr. Bhadaj Circle,  
Village: Bhadaj Ta.: Daskroi, Dist. Ahmedabad - 380060  
Mobile : +917069119111 | Website: www.gcbma.in  
Email: registration@gcbma.in, it.gcbma@gmail.com, admin@gcbma.in



## BOBST adds Jumbo to portfolio

**B**OBST's industry vision is to provide end-to-end solutions to its customers and to enhance its offering, fully embedded with the industry workflow, leading to full digitalization, connectivity and automation. The company has increased its capacity by investing in large size flexo printer slotters, flexo folder gluers and robotics.

Through this expansion, Bobst will offer an additional solution for large-size applications through a new JUMBO solution. This is a large format flexo folder gluer, enabling the production of large-size, high-strength boxes, including stitching and taping. Robotics technology further expands the offer with peripheral equipment, making digitalization the brain of operational performance.

"With the variety and number of required corrugated boxes increasing, there has never been a greater need for choice in the flexo folder gluer segment and peripheral equipment,"



said Jean-Pascal Bobst. "With this addition, Bobst has a full portfolio of solutions, ensuring our customers will always find the one that meets their exact needs. The new JUMBO solution is an excellent option for anyone seeking to produce large-size, high-strength boxes for protection."

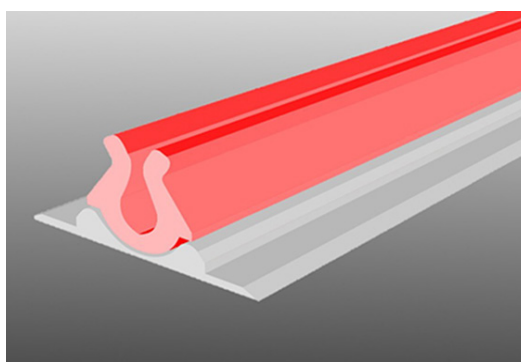
## 8 PRINT – a special fibre-based matrix for corrugated board

**C&T Channel Matrix** has confirmed the launch of its new matrix, 8 PRINT. This innovative fibre-based matrix is designed specifically for corrugated board and offers a range of benefits for die cutting applications.

The key feature of 8 PRINT is its rounded channel design. This channel allows for the efficient and precise die-cutting of corrugated board, from microflute to triplewall, without creating breaks or cracking. This ensures that the finished product looks neat and professional while minimising production waste.

In addition to its excellent die-cutting capabilities, 8 PRINT is highly resistant, making it suitable for high volume production runs. Its durability ensures maximum punching precision and reliability for consistent results.

Made from a single milled piece, 8 PRINT offers exceptional quality



and longevity. Its design is specifically optimised for corrugate cardboard, delivering excellent performance even in the flute direction. When selecting the appropriate 8 PRINT matrix, users should consider the width and thickness in relation to the flute direction and the grammage of the paper. This will ensure the best performance and results.

"We are excited to introduce our new matrix, 8 PRINT, to the market," said Simon Shenton, Managing Director, C&T.

"This special fibre-based matrix is designed to meet the needs of corrugated board conversion. We already have many types of specialist Matrix for the corrugated sector including Corrugate, Hinge and Reverse Bend. The introduction of 8 PRINT further strengthens our portfolio and showcases our dedication to meeting the evolving needs of customers."

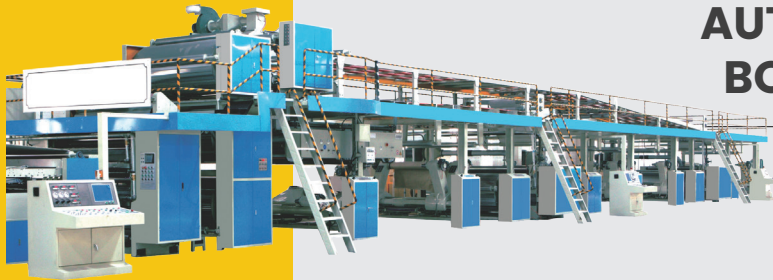




# VIRDI BROTHERS MACHINERY PVT. LTD.

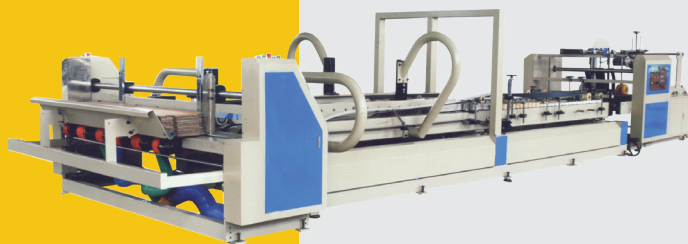
Manufacturers, Importers & Exporters of 3/5 Ply Board Making Plant & Corrugated Box Making Machinery

"Since our establishment in 1992, Viridi Brothers Machinery has been a leader in crafting quality 3/5 Ply Board Making Plants, corrugated box making machines, Angle board line, and Paper tube machines. With over 30 years of expertise, we invite you to elevate your packaging solutions. Inquire now for a collaborative journey towards packaging excellence!"



## AUTOMATIC CORRUGATED BOARD PRODUCTION LINE

## 5 PLY AUTOMATIC FLUTE LAMINATOR



## AUTOMATIC FOLDER GLUER

## ELECTRIC MOVEMENT THIN BLADE SLITTER SCORER



## VIRDI FINGERLESS CORRUGATION

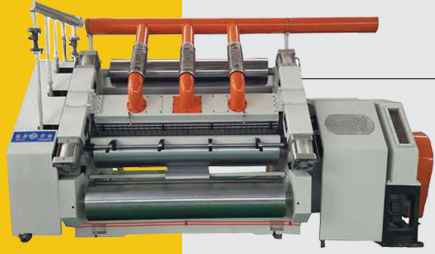
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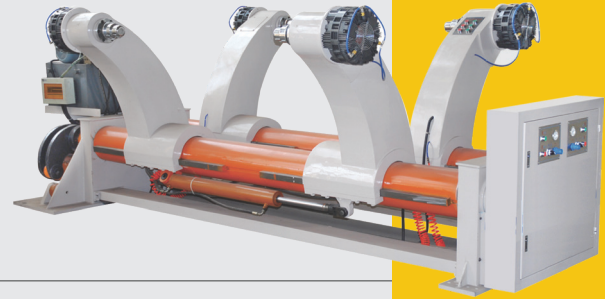
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Also available on: VbmPvtLtd virdibrothersmachinery @virdibrothersmachinerypvtl8228



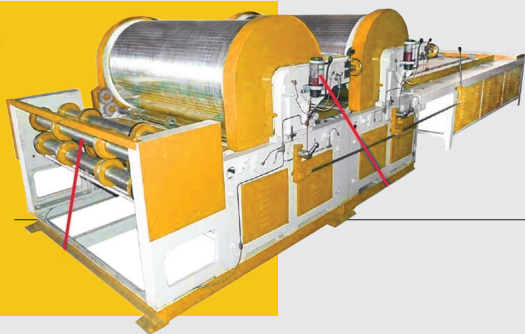
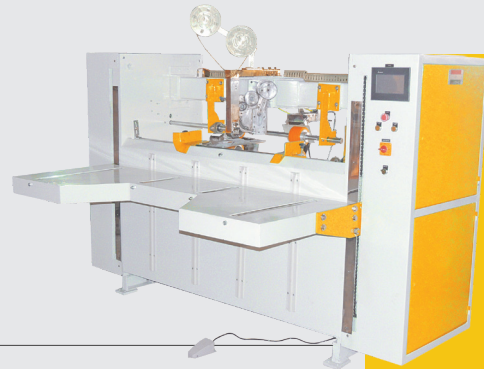
• **VIMBLE DRIVE MODEL FINGERLESS SINGLE FACER**

**HYDRAULIC SHAFTLESS REEL STAND**



**LEADEDGE FEEDING HIGH SPEED PRINTER SLOTTER**

**VIRDI SEMI AUTOMATIC STITCHING MACHINE**



**VIRDI TWO COLOUR FLEXO PRINTING WITH CHAIN FEEDER AND FOUR BAR ROTARY**

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**Office: 21, National Chemical Compound, Behind ICICI Bank, Station Road, Vikhroli (W) - Mumbai 400 079.**

**Factory: Indian Corporation Compound , Bldg No 182, Gala No 6, Opp Gajanan Petrol Pump, Mankoli Naka, Bhiwandi, Dapode, Thane, Maharashtra 421302.**



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# KINETIC

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Flexo Printing Roller



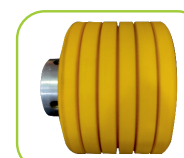
Sheet Cutting Roller



Sheet Pasting Roller



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Feeder Wheel



No Crush Wheel

### KINETIC ROLLS PVT. LTD.

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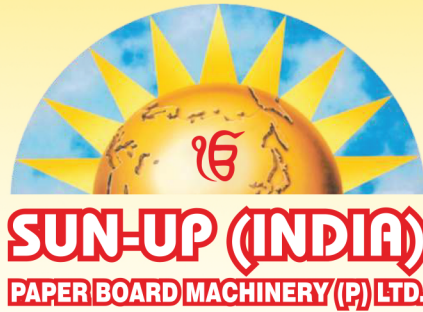
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**Managing Director  
Harbhajan Singh Bhurjee**



The founder of SUN-UP (India) Paper Board Machinery Pvt. Ltd., Harbhajan Singh Bhurjee, has been a self driven and motivated entrepreneur with a proven track record of success and extraordinary management skills in the field of manufacturing corrugated board production line machines and converting equipments, since 1988.

For past 35 years, his vast experience, undeterred efforts and professionalism has earned great respect and credibility to the highly acclaimed enterprise in order to meet the ever increasing demands of paper Board machineries from domestic and international market.

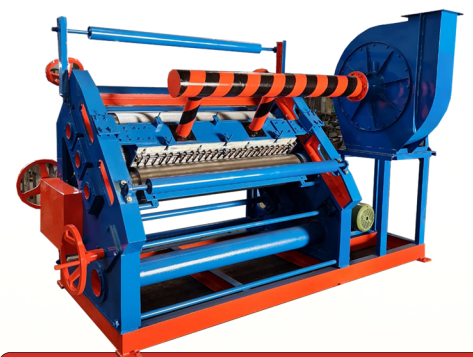
SUN-UP (India) has been a world wide exporter of Automatic in - line 3/5 ply corrugated board plant & complete range of paper corrugated Board & Box making machineries, and our company has no affiliation to any other firm or organisation.



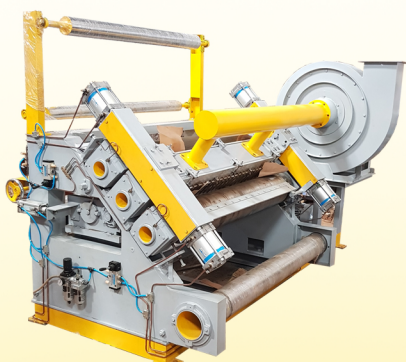
**SUN-UP Lead Edge 4 Colour  
Flexo Printer Slotter**



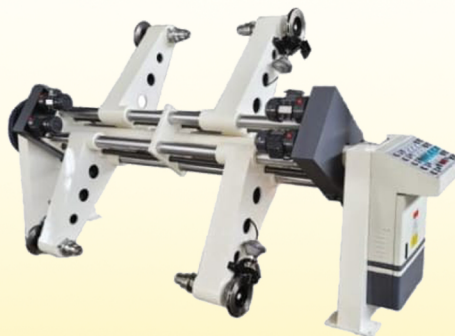
**SUN-UP Double Profile Corrugation**



**SUN-UP Fingerless Paper Corrugation**



**SUN-UP Pneumatic  
Fingerless Type Single Facer**



**SUN-UP Electric  
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**SUN-UP 2 Color Printer Slotter  
Machine (Chain Feeder)**

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