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ICPMA

INDIAN PAPER CORRUGATED & PACKAGING MACHINERY MFGRS. ASSOCIATION

Understanding the global Corrugated Box market

Global Corrugated Boxes Market Trends



The global corrugated boxes market size is estimated at USD 67.6 billion in 2021 and is projected to reach USD 80.8 billion by 2026, at a CAGR of 3.6%. The corrugated boxes market is witnessing high growth owing to the growing demands from the e-commerce sector, food & beverage industry, electronic

industry, industrial sector and the increasing disposable income in developing countries. The increasing inclination towards consumer goods and other end-uses is also driving the market. These are the key factors driving the demand for corrugated boxes during the forecast period.

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developing countries. The increasing inclination towards consumer goods and other end-uses is also driving the market. These are the key factors driving the demand for corrugated boxes during the forecast period. COVID-19 impact on the Global Corrugated boxes Market The COVID-19 pandemic has significantly impacted the Aluminium industry

Smurfit Kappa is incorporating digitalization in corrugated industry by developing a new range of paper

Smurfit Kappa, a renowned manufacturer of corrugated packaging solutions enhanced the incorporation of digitalization in the corrugated industry. It has developed a range of multi-purpose paper that is expected to be suitable for both, digital and flexography printers. The development of multi-purpose paper was undertaken to fulfil the purpose of enabling the printer to work together with the packaging material. This advancement widens the dimensions of

optimum digital printing and is expected to maximize the capabilities of digital printing. Customized graphic design has delivered a range such as greater flexibility and an increase in sales. The company is also looking forward to developing new solutions and enhancing the existing sustainable technologies. These advancements are driving the digitalization of the paper-based packaging industry and offers significant potential for market growth.

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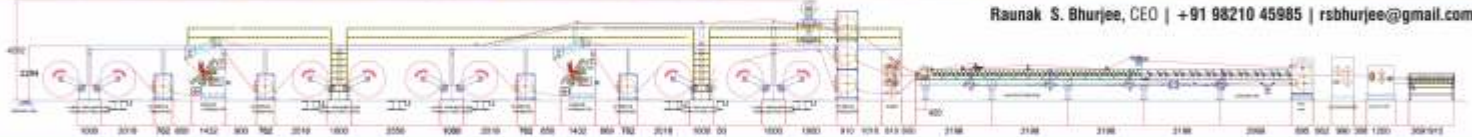


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ICPMA OFFICE BEARERS



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Mr. Jasinder Singh



Mr. Damandeep Singh



Mr. Hitesh Nagpal



Mr. Simit Dhanjani



Mr. Niket D. Shah

President Mr. Hitesh Nagpal
Sr. Vice President Mr. Raunak Singh Bhurjee
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MACHINERY MFGRS. ASSOCIATION

ICPMA NEWSLETTER

EDITORIAL TEAM



Mr. Hitesh Nagpal
Mr. Simit Dhanjani
Mr. Niket D. Shah

EDITOR

Hitesh Nagpal

EDITORIAL OFFICE

ICPMA

INDIAN PAPER CORRUGATED & PACKAGING
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New Delhi-110064

From the EDITOR Winds of Change

The Corrugated Paper Manufacturing sector is on the verge of a great change in India and globally. With the Corona Virus crippling us down for the last 2 years there has been unprecedented changes in the global business scenario, with the industrial sector moving to a hibernation mode. However, this pandemic has also changed the way we transact and shop. Be it buying for essentials or not so essential items, our purchasing pattern has drastically changed to the online mode, making way for a booming e-commerce business in all sectors. And to cater to the foolproof packaging of such items for delivery there has been a spurt of paper boxes and corrugated paper packaging. And this phenomenon is global. So, we have a great opportunity in front of us.

The Indian Government has also started promoting the concept of 'Atmanirbhan Bharat', thereby encouraging the Indian manufacturing sector to innovate and grow. With this concept we as an association of manufacturers of machinery for the Corrugated Paper Industry have also started to make equipment and machinery to reduce our dependency on procuring crucial machinery from China, Europe or US and rather exporting them.

As activities are resumed and are on a progression, ICPMA will also be moving forward with the 'Winds of Change'. Our newsletters would be regular and also highlight these positive changes and would thus help to unite the industry as a cohesive force to reckon with. Keep supporting us and let us grow together in unison.



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Corrugation Industry in India & the role of ICPMA

The booming Indian economy and a flourishing organised retail have raised the expectations that consumption of corrugated packaging will begin to expand again as the number and volume of goods packaged in corrugated increases.

- The industry is converting about 2 million tons of Kraft paper into corrugated boxes.

- More and more in-line automatic plants are being set up, as corrugated box makers gear up to meet the new demands for high precision boxes with attractive graphics and large integrated production capacities.

- Approximately 5500 Units are in existence and around 15 Units across India have adopted Automatic 3/5 Ply plants and rest are having Semi-Automatic Machines.

- Biggest corrugators have operation size of 1500 M.T. to 3000 M.T. per Month.

ICPMA or Indian Paper Corrugated & Packaging Machinery Manufacturers Association has played leading role in the development of Indian Corrugated Packaging Machinery Industry which is back bone for Corrugated Packaging Machinery Industry in India.

Industry is fragmented and dominated by micro, small and medium enterprises. However, tide of liberalization and globalization has brought in a trend wherein Indian manufacturers are more willing to upgrade technology and have completely automatic lines.

The Aim of ICPMA

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

HISTORY

Formed in 2014 ICPMA was started when around 8 Corrugated Packaging Machinery Manufacturer joined hand in New Delhi & formed a strong association. Over a period of time ICPMA has grown in Size and strength and has emerged as a voice of the Indian Corrugated Packaging Machinery Industry.

The ICPMA founded in 2014 at New Delhi (India) it is a modern and dynamic forum, providing opportunities to all Indian manufacturers engaged in Corrugated Packaging Machinery Business in global basis. Each member

is encouraged to contribute to the ICPMA by actively providing current news, papers on new initiatives, or speaking at conferences and seminars. The ICPMA is run by G.C. Members who are passionate about improving our Country's Technology related to Corrugated Industry. The ICPMA wishes to ensure that all of those joining our association will improve their business for future generations.

VISION & MISSION

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

OBJECTIVES

The objects of the association are to bring together all machine manufacturer under one roof. This will help all manufacturers to start having business among themselves to. ICPMA is committed to upgrade Corrugated Packaging Machinery Manufacturing Business in India. To promote this, we seek to recognize most talented manufacturer in the role of innovation in raising quality.

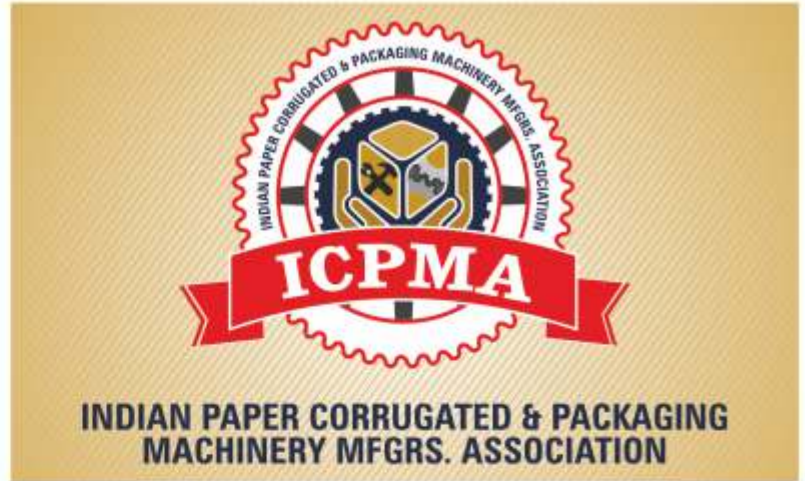
KEY ACTIVITIES

- MEMBERSHIP SERVICES
- GOVT. POLICIES & INITIATIVES – NATIONAL CAPITAL GOODS POLICY
- SERVICES OFFERED BY OUR MEMBERS – SOME OF OUR INDIVIDUAL
- MEMBERS AND MEMBER ORGANISATIONS

- MEMBERS DIRECTORY ICPMA members are the industry-leading solutions providers on your processing and packaging machinery supply chain, and ICPMA resources help you connect with them. Start with a search of ICPMA's member directory. ICPMA members are globally renowned for high-quality equipment, responsive service and committing to meeting their customers' needs.

MEMBERSHIP ADVANTAGES

- Business Connectivity and Networking
- Business growth, expansion and diversification
- Export promotion and import facilitation



- Connectivity with foreign Business Partners for Joint Ventures, Technology Transfer, collaborations and Contract Manufacturing Tie-ups

- Identification of Advanced Technology, Technical Alliances, Turn-key Projects & Capital Goods Marketing, Branding & Promotion amongst members and at various events

- Resolving issues and problems related to Manufacturing industry and other sectors

- Receive newsletter, event alerts, business information, leads, government schemes and incentives

- Business Management and Entrepreneurial Leadership Coaching for Members & main Workforce
- Suggestions and recommendations to present to Government for policy change and Implementations.

MEMBERSHIP PRIVILEGES

- Enrolling as the member of the premier Association.
- Sharing thoughts & suggestions on policy changes and policy

IMPLEMENTATION.

- Members will be allowed to use logo of Association on visiting cards, letterhead, website, company profile and promotional material.

- Opportunities to life members to interact with VIPs, dignitaries and speakers at various events.

ICPMA ANNUAL AWARDS PROGRAMME

The "Alliance Award" is given to those members who demonstrate excellence in Technology for up gradation of Indian Standards and to complete with worldwide Technology with following Aims.

- Processes fostering co-operation instead of confrontation
- Costs, transparent and competitive, reasonable profit for all
- Quality as our prime goal at a price that is acceptable to all
- Life cycle, sustainable projects, designed with all phases in mind

Specialized Webinar Sessions held by ICPMA

MARCH 2021 - Webinar on Live Discussion with NSIC (National Small Industries Corporation) Authorities related to topics RAW MATERIAL PURCHASE ASSISTANCE (to avail Economics of Purchases, bulk purchase, cash discount) & CREDIT FACILITATION THROUGH BANK (To meet the credit requirements of MSME units).

AUGUST 2021 - Webinar on Onsite coating of corrugation rolls: HVAF and HVOF Tungsten Carbide Thermal Spray Equipment and Technology with Kermetico, Inc. United States.

DECEMBER 2021 - webinar on motivational topic: "HOW CAN I MOTIVATE MYSELF EVERYDAY" by "Sudhir Dua" an Entrepreneur, Motivational Speaker on BBC and winner of several National Awards in the Industry and regularly appearing on Television & radio talk shows.

JANUARY 2022 - Webinar on "IMTMA training programs" - IMTMA (Indian Machine Tool Manufacturers Association), Bangalore. Speakers-P Ramesh - Consultant at IMTMA & Mr M. Krishnamoorthy - Sr Director - Training, IMTMA.

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President's Interview :

ICPMA will be play the pivotal role for the Corrugated Machinery Manufacturing Industry in India

compared to the global scenario?

Mr. Hitesh Nagpal : In the past seven years, the industry has developed by expanding their production and adapting to the latest technology advancement solutions to compete with the outside world. The Corrugated Packaging machines are sourced from Indian machine manufacturers developed and manufactured in India and developed with R&D.

ICPMA : What is the annual demand of corrugated packaging products in India vis a vis to other developed countries in the world?

Mr. Hitesh Nagpal : Globally, the packaging industry sector has positioned itself as one of the fastest growing industries across all countries. The industry is worth over \$ 917 billion (in 2019), growing at CAGR 2.8% to reach to \$ 1.05 trillion by 2024. According to the Packaging Industry Association of India (PIAI), the sector is growing at CAGR 22% to 25%. According to the Indian Institute of Packaging (IIP), the packaging consumption in India has increased 200% in the past decade, rising from 4.3 kg per person per annum (pppa) to 8.6 kg pppa as on FY20.

ICPMA : What is the strength of members at present and what efforts are

being made to make more manufacturing companies in India join the association?

Mr. Hitesh Nagpal : ICPMA has strength of 65 members at present. And we aim to increase our strength to 150 members by the end of 2022.

To list some of the efforts by the association are- business connectivity and networking, business growth, expansion and diversification, export promotion and import facilitation, connectivity with foreign Business Partners for Joint Ventures, Technology Transfer, collaborations and contract manufacturing, tie-ups, identification of advanced technology, technical alliances, turn-key projects & capital goods Marketing, Branding & Promotion amongst members and at various events.

ICPMA : What does the association do to serve the interest of the Indian corrugated packaging machinery industry?

Mr. Hitesh Nagpal : Members have the privileges of sharing thoughts & suggestions on policy changes and policy implementation. Association supports all its members by giving representations to the government. In regards to problems faced by our industry. Our Association always aims to support all its members in techno-commercial day to day activities. A subsidized rate for participating as an

exhibitor in the various exhibitions and trade shows.

ICPMA : During last 2 years of Covid 19 scenario what were the activities of the association?

Mr. Hitesh Nagpal : In the COVID-19 pandemic, video conferencing was a means of communicating and holding association work meetings. The election of Governing Council committee for term 2021-2023 was held virtually. We also conducted virtual events like webinars for our members which are mentioned in this newsletter.

ICPMA : What pivotal role do you see of ICPMA in the next 5 years down the line?

Mr. Hitesh Nagpal : Over the next few years, ICPMA is the only nodal association which represents the interest of the Indian companies who are in the paper corrugated machinery manufacturing sector. Within the coming years we plan to organize such events in order to boost the existing multidimensional capabilities of the members here, which will catapult the industry, contribute to the growth of the manufacturing sector and the economy of the nation. We shall aim to hold global exhibitions by doing tie-up with strong and legendary organizers.

ICPMA : ICPMA is the sole associate body of the corrugated packaging machinery industry which was set up in 2014 in India. Kindly tell us in brief the journey of the association, so far?

Mr. Hitesh Nagpal : In the early of 2013, Corrugated Packaging Machinery Market was going down in India due to Heavy imports from China. At that time, China was grabbing the Indian Corrugation Machinery market. Looking at the scenario, we felt of uniting the Indian Manufacturers who all are engaged in manufacturing of Paper Corrugated Packaging machines. In 2014 ICPMA was formed when around 8 of India's Leading Paper Corrugated Packaging Machinery Manufacturers joined hand in New Delhi. Over a period of time ICPMA has grown in Size and strength and has emerged as a voice of the Indian Corrugated Packaging Machinery Industry.

ICPMA : Where do you see the Indian industry as corrugated packaging machinery manufacturers as of today

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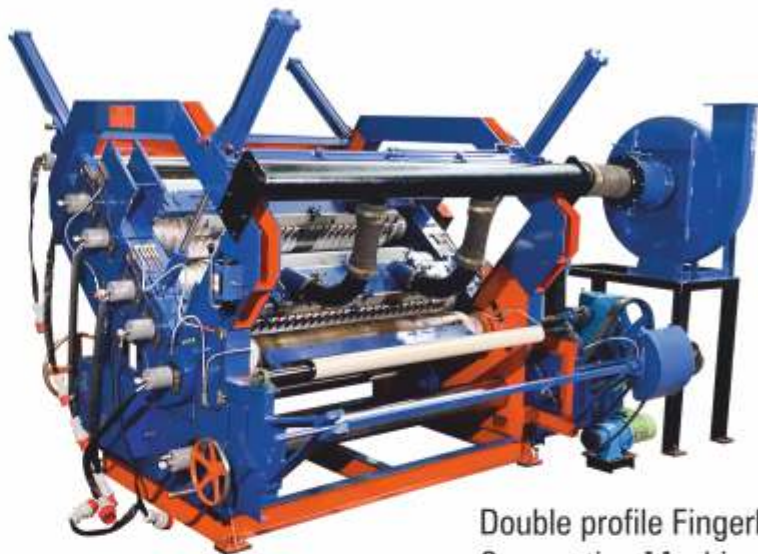


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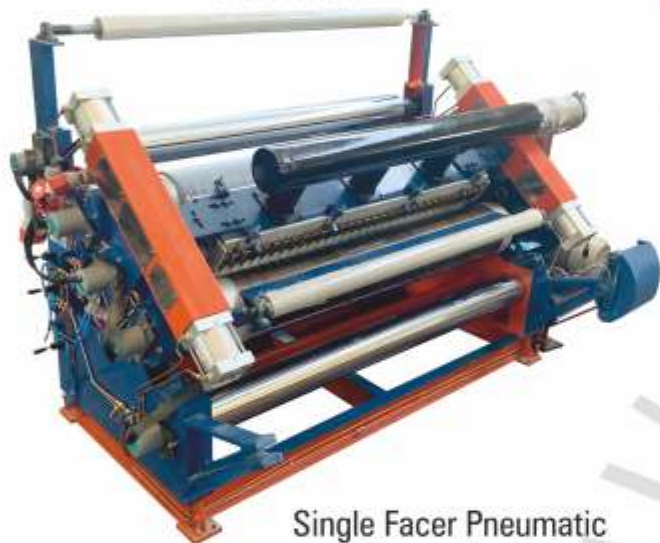
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General Secretary's Interview

The path of growth for the Corrugated Machine Manufacturers will be shown by ICPMA



ICPMA : *Where are the possibilities, opportunities and advantages for new members to be part of the association? What can they expect by joining this industry body?*

JATINDER SINGH : We have tie ups with other Industry Associations which organizes major exhibitions in India as well as in abroad. Our members who participate in these fairs to do business and promote their brand and product range, they get a healthy discount and also a lot of other special privileges, generally which are not applicable for others. We are looking at more future tie ups with a host of other national as well as international players who operate these fairs or technical buyer seller meets in a professional manner. Apart from this we will also be providing technical help, guidance, and training to our members within an ambitious program which is being planned within 2 to 3 months. Right now we do organize various sessions online and the same sessions have been quite successful.

ICPMA : *How important is regular interface with the members and what are the steps undertaken by the industry body to develop skill levels through training programs?*

JATINDER SINGH : Regular interface with the members is one of the most crucial tasks of the Association. To cater to this the Association has been organizing regular virtual meetings and seminars with a focus on development of skill set and addressing of technical help to the manufacturing organizations, who are members of the Association. We have a culture of treating the Association members as members of a big family and everybody in this group supports everybody through advice and patronage of the other in all aspects of this business.

ICPMA : *What was the role of the association to support the members during the Covid 19 scenario during the last 2 years?*

JATINDER SINGH : A lot of online seminars on evolving technology, management skills and motivational therapy sessions have been held and are still being held at regular intervals.

ICPMA : *Do you think tying up with foreign industry bodies will help the industry association, development of business and expertise level? If yes, what steps have you taken forward towards it?*

JATINDER SINGH : We do certainly believe foreign Association tie ups is a great help and importance. We have tied up with REED MANCH, set up by the famous REED Group and they are working on organizing an event on Corrugated Paper exhibition. Also tie ups other exhibition Paperex, Ipama and Eastern Corrugated Show.

ICPMA : *Where do you see the association would be heading, 5 years down the line? What steps are you going to take to develop and strengthen the association?*

JATINDER SINGH : Right now, we are in the process increasing the member base from 65 to more. All of us are in the job of planning to organize the first major show in India on the Corrugated Machine Manufacturers. And to do this we have included our Associate Members, Traders and Manufacturers all with an objective to promote the prevalent national concept of 'Make in India'. In foreseen future we are planning to setup a Show especially on the Corrugated Machines and allied products to promote the concept of "make In India" and encourage our Indian Manufacturers to display their products and technology advancements to the world.

ICPMA : *As the General Secretary of the ICPMA what has been your primary role to further the propagation of the association?*

JATINDER SINGH : ICPMA is possibly the one of the youngest Industry Association in India. I started operating in the chair of the General Secretary from the last 3 months in place of my father, Mr Amarjeet Singh who decided to step aside due to work related pressures. Since then, my job has been to relentlessly pursue the objective increasing the subscription and membership of fellow businesses and we are making headway as a team.



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NBG STARFlex – LHT

Rollfed Flexo printing machine for corrugation industry.



GSM top coated board. The unique print cylinder design makes it easy for size change over, motorized registration for centralised registration control which can be upgraded to Auto registration if required, Ceramic anilox rollers with chamber doctor blades ensures viscosity of ink is maintained properly by avoiding evaporation.

The machine is bring offered with standard features like Auto tension control, Web aligner, heavy duty unwinds which can take up to 1600 mm dia reels, independent heating systems on each print unit, hot air as standard and IR drier as optional.

NBG STARFlex is offered in MLS (Mechanical line shaft) and ELS (Electronic servo driven) model based on requirement. ELS dive enables features like Auto registration, Pre registration etc. The unique drive design enables the

machine to maintain registration at High Speeds. The modular design enables the machine to add other printing systems like gravure, and digital makes it a versatile and customizable machine for multiple applications and thus helping printers in EXPANDING POSSIBILITIES.

STARFlex LHT is manufactured at NBG Printographic's state of the art manufacturing facility equipped with latest design department working on 3D software's, latest CNC machining centers (HMC, VMC, CNC Grinding etc) where the machines can handle accuracies upto 10 microns and inspection division equipped with latest CMM to inspect any part or assembly upto 5 microns, which ensures the machines are made as per international standards for consistent performance. the after sales support with a dedicated service team of Application, engineering and operating experts ensures 24/7 customer support.

With the increasing demand for printed outer cartons, and increasing investments in fully automatic corrugation lines, the requirement for quality printing machines for roll fed flexo to print on top layer to be fed directly into fully automatic corrugation lines is increasing.

STARFlex – LHT (Large format Horizontal type), the first machine is a wide web flexo printing machine with 1600 mm width and max print repeat of 1700 mm. the STARFlex LHT platform can be offered upto sizes of 2200 mm width also. STARFlex can handle substrate paper / board from 40 GSM to 400 GSM

Looking at this requirements NBG Printographic a leading manufacturer of printing machines in India has launched

The machine was recently tested by customer at a speed of 150 MPM and the machine performed as required in 200



3 & 5 PLY HIGH SPEED CORRUGATION CARD BOARD MAKING PLANT



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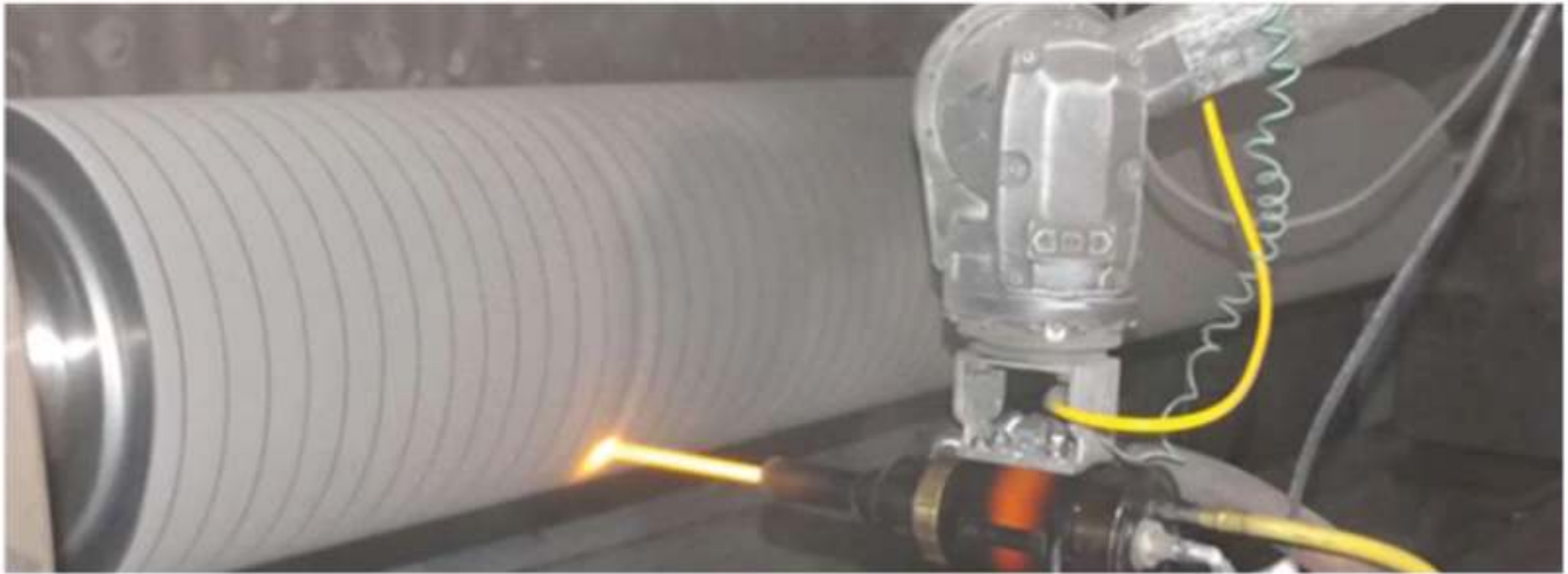
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HVAF Tungsten Carbide Coatings on Corrugating Rolls

Dr. D.A. KARANDIKAR



Corrugating rolls are routinely protected against wear with HVOF Tungsten Carbide coatings (WC-10Co-4Cr or WC-12Co). The coating is applied on new rolls, as well as re-applied on used rolls after it is worn during service or the roller teeth were repaired. The technology includes grinding and polishing of roll teeth before the coating, grit blasting and coating spraying, grinding and polishing of the coating to achieve specified teeth profile and surface roughness. Typically, the coating is applied to average thickness 70-75 micron, and after grinding and polishing about 35-40-micron coating thickness still remains on

finished pair of rolls. Grinding is needed because of large coating thickness deviation over sophisticated profile of teeth and because of high roughness of as-sprayed coatings.

Grinding of the coating is a limiting factor of the whole technological process. It is typically 10-fold longer than the coating deposition process. The cost of grinding setup is huge: the US- or German-made grinder is priced at 3.0 million USD. The use of multiple grinders is clearly not a choice for majority companies. A significant part of the grinding cost belongs to the cost of expensive and

rapidly consumed diamond grinding wheels and dressers. Breaking of those tools is a frequent case, specifically when using multiple-groove dressers (diamond Form-dressing rolls).

Kermetico Inc. developed HVAF Flash-Carbide technology and equipment, depositing coatings which do not require grinding, but only polishing. The HVAF Flash-Carbide is hard (1450-1500 Hv300), tough and very dense WC-10Co-4Cr coating, typically applied to thickness less than 20 micron with correspondingly small absolute value of thickness deviation and as-sprayed roughness

under Ra 1.0 micron. The technology is already adopted by the leading manufacturer of corrugating rolls in Germany, tailoring it to a number of corrugating rolls of different diameters and teeth profiles. This approach freed grinding machines for use in production and repair of corrugating rolls, increasing the production output for the same setup many folds and significantly reducing the total cost of the coating. Many problems of possible defects in the coating are eliminated, resulting in robust, reproducible and superior performance of rolls in corrugators.



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Recent Developments in the Corrugated Box Industry

In October 2021, Smurfit Kappa Group completed the acquisition of Verzuolo. As a result of this acquisition, the company converted the PM9 machine into a state-of-the-art 661,387-ton recycled containerboard machine in 2019. It complements the already existing and strategically located operational facilities near the port of Savona. This is expected to benefit the company as well as the customer base.

In September 2021, Rengo Co., Ltd. announced that its joint venture in Vietnam, Vina Kraft Paper Co., Ltd., has opted to build a new containerboard production site. Due to continued foreign direct investments, majorly in the export industry, and expanding domestic consumption, Vietnam's total annual demand for containerboard was over three million tons in 2019. Vina Kraft Paper is expected to firmly establish itself as a market leader in the Vietnam containerboard sector, with the newly constructed mill aiming for long-term development and expansion. It is also expected to boost Vietnam's local integrated containerboard to corrugated box production system.

In September 2021, the Mondi Group expanded by installing new equipment at its corrugated box production plant in

Szczecin, Poland. This expansion aims at expanding the company's packaging portfolio and enhance production processes. This expansion is expected to further strengthen the company's presence as a preferred e-commerce packaging supplier to the growing European markets.

In August 2021, DS Smith developed a completely recyclable e-commerce packaging for Blaue Helden. This sustainably developed e-commerce packaging from DS Smith imparts the environment-friendly cleaning tabs from Blaue Helden, an enhanced appearance catering to online retail, with 100% corrugated cardboard and no plastic filling material at all.

In March 2021, International Paper completed the purchase of two state-of-the-art corrugated box plants in Spain. This purchase will enhance the capabilities of the company in Madrid and Catalonia. Corrugated packaging business is of strategic importance to the company with respect to the EMEA. It offers its customers high-quality packaging solutions in the industrial, fresh fruits and vegetables, and e-commerce segments. The two businesses have been the part of International Paper from April 1, 2021.

Online shopping across Central & Eastern Europe driving sustainability



Approximately 45% of the consumers in Central and Eastern Europe prefer online shopping due to the COVID-19 pandemic. Studies and surveys predict that the new online buyers are expected to continue online shopping. Almost 80% of the population in Central and Eastern Europe appreciate the incorporation of a sustainable approach and eco-friendly material in the corrugated boxes used for packaging. 77% consumers use sustainable corrugated packaging solutions for their online shopping. Approximately 57% are willing to pay more for customizable as well as sustainable corrugated packaging solutions. The online business has seen a boost after the COVID-19 pandemic. Competition from flexible plastic packaging

Flexible plastic packaging provides the highest advantage for manufacturers and

retailers as it reduces the weight of packaging which can result in reduced shipping and warehousing costs, thereby enabling the requirement for significantly less space. For consumers, it provides convenience through features such as single-serve portions, easy-to-open, and easy-peel options, and the food tastes better in retort pouches than that in traditional tin cans. Flexible packaging is 40% lower in terms of the overall packaging cost, which amounts to a 50% reduction in landfill waste and 62% reduction in greenhouse gas (GHG) emissions over rigid packaging. Hence, factors such as convenience, portability, cost savings, sustainability, and health benefits are leading product packaging manufacturers and packaging converters to shift from standard rigid materials to flexible materials.



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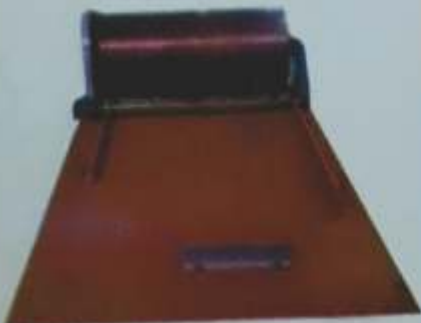
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The environment and the global Corrugated box Industry



The global corrugated boxes market is predicted to attain a revenue of \$284.6 billion by 2030, rising from \$180.9 billion in 2019, progressing at a 4.3% CAGR during the forecast period (2020-2030), according to "Corrugated Boxes Market Research Report: By Flute Type, Board Style, Box Style, End Use - Global Industry Analysis and Demand Forecast to 2030"

One of the major challenges that corrugated box manufacturers are expected to face over a period of time is reducing greenhouse gas emissions and developing highly efficient & eco-friendly methods of manufacturing products. Corrugated boxes are experiencing increased demand among consumers; however, the high consumption of energy and the impact on the environment acts as a major hindrance for it to be

considered as a highly sought-after packaging product. As corrugated boxes are made from wood pulp, their production has a significant impact on forests. The energy required for production is significantly higher than the energy required

for producing plastic. It requires 34% higher energy to produce corrugated boxes than in the production of reusable plastic containers. CO2 emissions are also higher when manufacturing corrugated boxes.

The rising focus on sustainable packaging and product recycling is a major trend being observed in the corrugated boxes market. The disposal of corrugated boxes was leading to increased accumulation of waste in landfills, thereby causing harm to the environment. Now, however, manufacturers are utilizing innovative technologies for compaction and shredding, which aid in recycling of corrugated boxes. The fibre produced during the recycling of corrugated materials can be used for producing new corrugated boards, thereby leading to reduction in waste generation.

Food & beverages is the largest end-use industry segment of the corrugated boxes market



On the basis of end-use industry, the market is segmented into food & beverages, electronic goods, home & personal care goods, chemicals, textile goods, glassware & ceramics, paper products, and others. The food & beverages segment led the market in terms of both value and volume. The key categories found in the food & beverage industry include fresh produce, processed food, and non-perishables. The food & beverages sector requires packaging for the storage, handling, and transportation of products. Corrugated boxes are

requiring while transporting products that have varying strengths, which includes extremely delicate, perishable products to processed food products. As corrugated boxes are non-reactive, they are an appropriate medium to package, transport, and store food for a long period of time. The packaging of processed food requires safe packaging material which is suitable to the buyer and also confirms product safety. Therefore, corrugated boxes are used for the packaging of processed foods.



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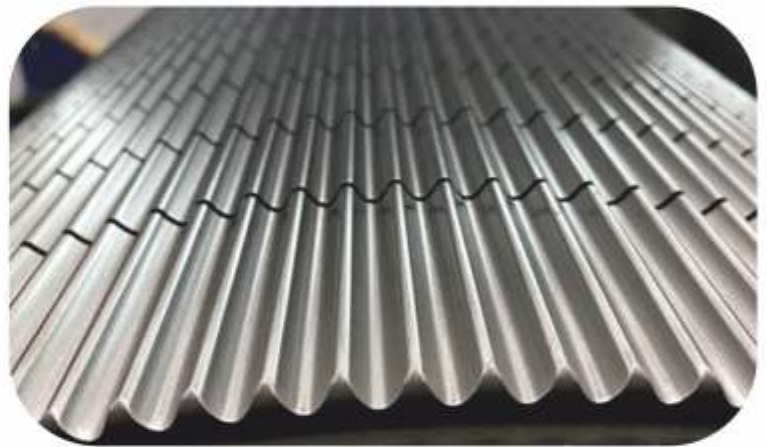


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