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# ICPMA

INDIAN PAPER CORRUGATED & PACKAGING MACHINERY MFGRS. ASSOCIATION

## President's Message... India's first paper corrugated & packaging Machinery Manufacturers Association (ICPMA)



**Hitesh  
Nagpal  
(President)**

My Dear Members,

Firstly I would like to congratulate! all members on this issue- 7, (July-Sept) of ICPMA quarterly newsletter after the successful distribution of April-June (issue -6) of the newsletter to Corrugated Box & Board manufacturers.

Created with compelling content and visual design, it is very informative and edifying. The digital copy will also be circulated to all the industrial majors involved in Corrugated Box & Board manufacturing. Newsletter archive link will be hosted on ICPMA website home page, which will serve an incredibly useful function as a content marketing.

It is with great pleasure that I want to thank the INDIAN CORRUGATING INDUSTRY for building trust & confidence towards the India's first Paper Corrugated & Packaging Machinery Manufacturers Association ( ICPMA).

ICPMA is the India's first Paper Corrugated & Packaging Machinery Manufacturers Association. Formed in 2014 ICPMA was started when around 8 Corrugated Packaging Machinery Manufacturer joined hand in New Delhi & formed a strong association. And thereafter all the leading manufacturers of India joined hands together to form a strong bonding among themselves.

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

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.

We are blessed with a wonderful blend of youth and experience in the ICPMA G C committee. With the support of every member of the G C Committee we will continue with the activities and services of the association to the best of our abilities. ICPMA is like a family – each one of you is an integral part of this family. This family cannot progress without the active participation of all members.

Best Wishes & Regards,  
**Hitesh Nagpal** (President)



**Highest numbers of  
5 ply in line fully  
automatic board plant  
installed in INDIA**



**Raunak Singh Bhurjee, CEO**  
SunUp (India) Packaging Machinery Co. Pvt. Ltd.

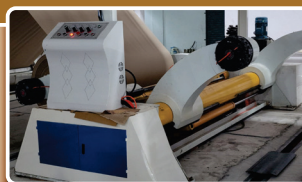


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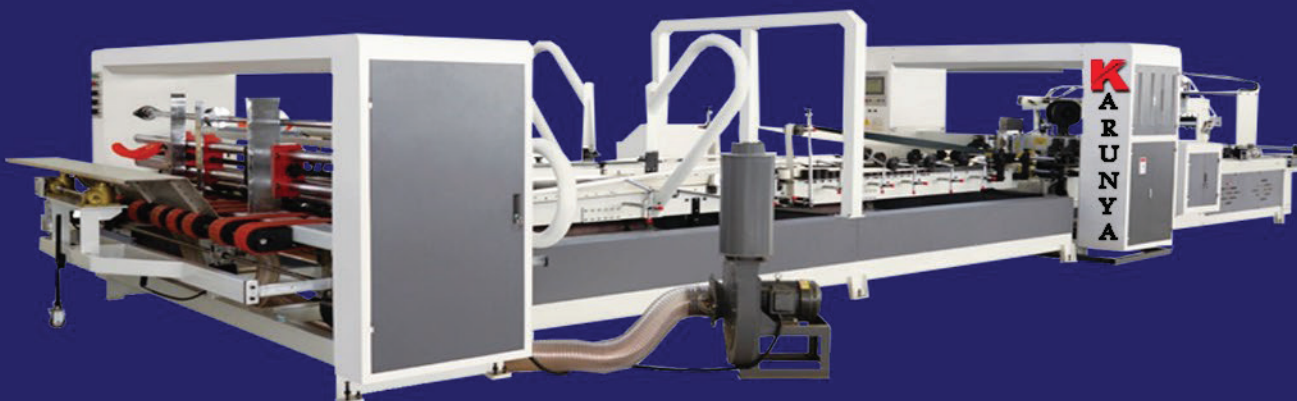






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Hitesh Nagpal

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## From the EDITOR

**The India corrugated  
boxes market is expected  
to exhibit a CAGR of  
3.70% during 2022-2027**

The expanding e-commerce industry is primarily driving the India corrugated boxes market. Additionally, the widespread adoption of fast-moving consumer goods (FMCG), such as toiletries, beverages, drugs, household items, etc., is further catalyzing the market growth. Besides this, the growing consumer inclination towards lightweight and innovative packaging materials has led the leading manufacturers to design corrugated boxes in varying sizes and shapes, which is acting as another significant growth-inducing factor. Moreover, the increasing utilization of these boxes as an effective marketing strategy for retail-ready packaging (RPR) and shelf-ready packaging (SRP) is also propelling the product demand in this country. Apart from this, the rising investments in R&D activities to improve the sustainable properties, chemical resistance, dimension stability, and weatherability of the variants are anticipated to fuel the India corrugated boxes market over the forecasted period.



A member of ICPMA

## CORRUGATED BOARD & BOX MAKING EQUIPMENTS



MAKE IN INDIA

CORRUGATED  
CARDBOARD  
PRODUCTION LINE



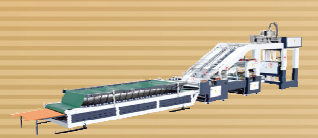
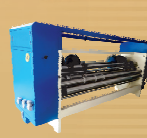
3PLY - 5PLY - 7PLY COMBINED CORRUGATED BOARD PLANT



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**Email :** natrajindustries1978@gmail.com  
**Website :** www.natrajindustries.com





## Neon masterstitch pro series

*Reinventing the box stitching process is important. Here's why.*

Corrugated box industry has come a long way. It has become an integral part of consumer product journey. Organizations around the country have started laying more emphasis on the quality and appearance of their product packaging. Having said that, the demand for innovative, attractive, and top-quality boxes are higher than ever.

Corrugators have adopted newer, more efficient technology to deliver an exceptional product that doesn't just look great but have a higher bursting strength and provide better protection to the goods packaged inside. It is now safe to assume that your box

quality and strength are as good as your stitching/ pinning standards.

### Stitching boxes a bottleneck?

7 out of 10 carton box manufacturers would agree that a major drawback of their plant is the stitching process. Seasonal producers find it particularly challenging to cope up with high demand during their peak because of this problem. "We must run night shifts just to finish up the stitching jobs during our peak season. It is a major inconvenience for my men.", says Mr Amit P, the owner of a semi-automatic plant (Rajkot).

"Stitching as a process is a twofold challenge. First, the unavailability of a reliable machinery. Second, the reliability on skilled labour. These two challenges restrict the manufacturers to focus on something that is important – The stitch quality", adds Mr Girish S (Ahmedabad). More than 90% of semi-automatic plants rely on manual stitching machines.

These machines fail to deliver consistent, quantitative output. In addition to that, these stitchers are very difficult to maintain and the availability of skilled men running these machines are scarce. These are all the reasons to move away from them at any costs.

### Neon Masterstitch pro series: An answer to your stitching problems.

**Neon Masterstitch series** is a result of vigorous research into every single detail associated with the stitching process. This revolutionary series of equipment contains a dual servo double pinning stitching system with a sophisticated PLC system. With a single press of the foot switch, the machine produces evenly spaced double pins that seamlessly dwells into the box design. To minimize the risk of breakdowns, **Neon** developed its signature Hex-blow system to force the air into the head after each box cycle to keep the head clean from the inside. This innovation saves you machine from any wear caused by the gusty particles from the wire.

The operation of the machine

is relatively simple too. Since the machine is now responsible to hold the box and sync its movement and pinning speed, anyone with little training can operate this machine. Therefore, it saves time, overhead and dependability on skilled labour.

Quality and reliability is at the heart of **Neon** brand and this is truly reflected in the performance of MASTERSTITCH PRO SERIES. Expand your production, quality and reach with NEON MASTERSTITCH PRO and take your business to the next level.

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## K.M. MACHINES

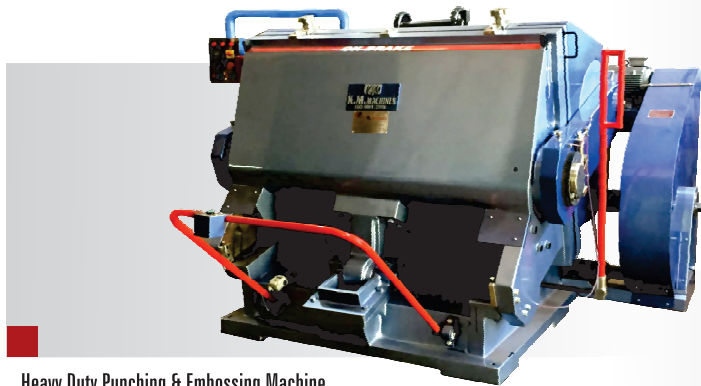
Complete range of CORRUGATED BOX MAKING MACHINES



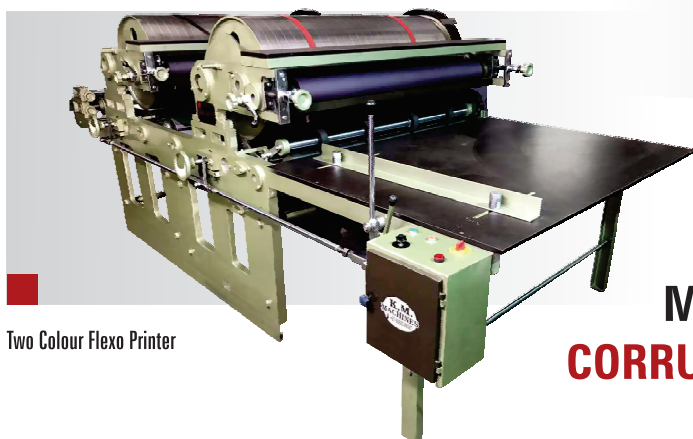
Fingerless Corrugating Machine



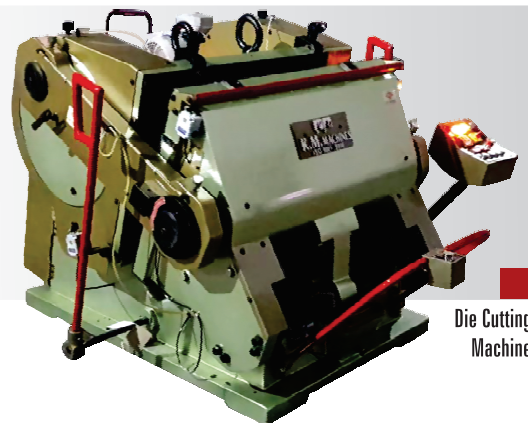
Double Profile Corrugating Machine



Heavy Duty Punching & Embossing Machine



Two Colour Flexo Printer



Die Cutting Machine

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# Automatic glue kitchen- by Gumcorru machines

## (A Made in India Product)

### Advance Starch Glue Preparation Technology & Systems

GUMCORRU- Machines was established year 1988 by Shri Prakash Macwan having manufacturing base at Industrial Area, Anand in Gujarat. Under his constant perseverance GUMCORRU MACHINES developed GLUE MIXERS with different variety, Powder Plants & finally AUTOMATIC GLUE KITCHEN- A Made in India Product.

The choice of Glue preparation equipments depends on the requirements of Carton box manufacturer and the method are based on the:

- (1) Availability of Raw material.
- (2) Its performance at box manufacturing line.
- (3) Finally, a Cost of manufacturing a Glue.

#### (A) Cold Gum mixing machines.

Using a proper mixer during process of making the Glue enhances the property of glue as within a specific time period, a homogenous process of mixing of starch with additive is achieved.

The Benefits of using Mixing machine.

- Reduce consumption of glue while manufacturing carton.
- High shear mixing with stable viscosity & consistence.
- Least wastage with low labour cost.
- Improves the board quality.



#### (B) Integrated Semi-automatic corrugated Glue circulating system.

Circulation of the glue is mandatory process, so during



Corrugation manufacturing process by using an Integrated semi-automatic glue circulating system, it avoids the formation of the lumps and maintains the glue chemical properties.

The Benefits of using Circulating System.

- Reduce consumption of glue while manufacturing carton.
- Timer controlled gentle mixing avoids separation & sedimentation of glue
- Least wastage with low labor cost.
- No Lump formation of Glue Improves the board quality.

#### (C) Automatic Glue Kitchen.



It has been observed and felt over more than 2 decades in India, carton box manufacturers having no options, have to import machinery from different countries and they face a challenge of services and its replacements.

Manufacturing proper Glue suitable to carton box manufacturing line is most important and critical part. There are variety of method for making a Glue used in manufacturing Carton box.

#### 1.) Glue manufactured using modified premixed starch.

Limitations of using Premixed Modified Starch.

- Cost of production is very high.
- Gel-point and viscosity inconsistency was observed.
- Restraining to change the viscosity by maintaining gel point based on paper quality.
- Solid content in Glue could not be change as per paper requirement.
- No scientific approach for preparation of batch, since it's only a mixing process.
- No records for raw material consumption could be evaluated while manufacturing glue.
- Totally human driven and dependent process.

#### 2.) Glue manufactured using a Raw Maize Starch using Automatic Glue kitchen.

The Automatic Glue kitchen (Made in India Product) along with automatic caustic mixture panel.

Glue kitchen automatically selects the sequence of products as defined in batch recipe. Using high precision

Weighing system it adds the Starch, borax, caustic solution, Water, Re-cycle water & controls the heating as per required quantiti. Preparing with scientific method system ensures the formation of chemical bonding occurs during each stage.

#### Automatic Caustic Mixer.

Understanding the criticality of handling (Safety Hazard standards as per factory act.), preparing &

adding of the exact quantity of Caustic solution during glue preparation. The Automatic caustic mixture is designed to store 150 Lit of Caustic solution (Caustic flex + Water). Automatic Caustic mixture is fitted on precision weighing system which ensures correct addition of Caustic and water as per the concentration required.

150 Lit of preparation can last for 8 continuous Glue preparation batches each of 1000 Litres.

#### Below are the benefits of using model GC-1000 Automatic Glue kitchen.



Benefits of using Automatic Glue kitchen.

- Siemens Advanced Recipe driven functionality with User friendly operation.
- Great Cost Reduction
- Gel-point and viscosity consistency is maintained.
- Solid content along with Viscosity can be changed as per
- Scientific approach for preparation of batch with heating controls.
- Records for raw material consumption can be evaluated while manufacturing glue.
- Automatic Usage of Re-cycle water during glue preparation.

#### 3.) Automatic Glue Circulating System

Once the Glue is prepared it is important to circulate the same with proper instruments. This efficiently transfers the Glue with least wastage and without disturbing the chemical bonding properties.

Using the "Touch-HMI" at Automatic Glue circulating system, users shall get following controls.

- Glue transfer controls. (To Sends Glue from Glue kitchen to storage tank & later to Production Line tanks.)
- Using Precision weighing system for measuring the exact amount of Glue to transfer. Safety interlocking avoids overflowing and under-filling during production. So system always supplies fresh glue with maintained safe level at production tank.
- Maintains the Glue recirculation cycle by controlling the Start/Stop sequence of circulating pump, hence glue quality is maintained.
- Being an automatic system it is least man-power required during entire

day trouble free production. (70% to 80% reduction of manpower for supply of gum to production line.)

- Glue Return controls. (To Return Glue from production line tanks back to Storage tank.)
- Using Precision weighing system for measuring the return of Gum from production tank using safety interlocking mechanism.
- A single touch on HMI Screen enables users to bring glue back.
- Re-cycle water Return controls. (To store Re-cycle water to recycle storage tanks.)
- At end of production day, operators cleans the machine with water, As per environment law since this water has gum contents it cannot be discharges to open land or drains. Our Automatic Glue circulating system is designed to restore this same at recycle water storage tanks which is again used for preparation of New Glue.

[www.gumcorrux.com](http://www.gumcorrux.com)





# Best Choice for Box Making Equipments

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GLUING MACHINE**

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**Website :** www.vikasboxstitchers.com



# DGM India is targeted to manufacture approx 100 machines per year.

**DGM Automation India Pvt.Ltd.** is officially formed in January, 2018 but started their operations in India from December,2019 as an 100% subsidiary of M/s Huizhou Degang Machinery Co. Ltd. (Formally Known as DGM in China and International Market)

**DGM China is formed in 1985** and was first private manufacturing company in china. DGM started their manufacturing with folder gluers in china for domestic market and soon got entry into international market due to its design, R&D and performance.

**DGM China** is presently manufacturing in 30000 square meter of Shed and had recently acquired another 55000 square meters of shed to meet increasing demand of machine in domestic and international market. Even considering future demand DGM had invested in another 50000 square meters of Land to be future ready.

**In India, DGM** is operating in 30000 square feet of covered area with dedicated Demo Centre for machine demo and trial and a dedicated warehouse for mechanical and electrical parts.

**DGM as a group is manufacturing now Automatic Die-cutters, Folder Gluers, Hot Foil-Stamping and Flute**



**Laminators.**

**DGM India** is their first step towards globalization and being near to the potential market. India factory is targeted to manufacture approx.. 100 machines per year.

**Indian factory** shows importance

of Indian market in the plans of DGM Global as it is first factory of DGM after china. In Future plans DGM is planning to start manufacturing in South America and Africa to keep up with market potential.

**DGM India** is successfully

established in India with 100+ machines installed base within 4 years with repeat and referral orders.

As an next step now **DGM India** is expanding their foot prints with Sales and Service team in East, West and South India. In North India the company is successfully placed.

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# Topics covered in the ICPMA Webinar on "Metallurgy"

## INTRODUCTION TO METALLURGY (Materials Science & Engineering)



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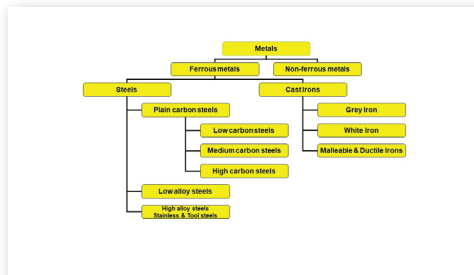
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**LALITKUMAR LUNAWAT METALLURGICAL CONSULTANT**

### Motivation: Materials and Failure

Without the right material, a good engineering design is wasted.  
 Need the right material for the right job!

- Materials properties then are responsible for helping achieve engineering advances.
- Failures advance understanding and material's design.
- Some examples to introduce topics we will learn.



### What is Materials Science and Engineering?

An interdisciplinary field that addresses the fundamental relationships between the Processing, Structure and Properties of materials and develops them for the desired technological application (Performance).

## Metal Processing

### Properties of Materials

**Electrical properties**  
 A. Electrical conductivity and resistivity

**Dielectric properties**  
 A. Polarizability  
 B. Capacitance  
 C. Ferroelectric properties  
 D. Piezoelectric properties  
 E. Pyroelectric properties

**Magnetic properties**  
 A. Paramagnetic properties  
 B. Diamagnetic properties  
 C. Ferromagnetic properties

**Materials**

- Ceramics Ch. 2
- Metals Ch. 11
- Polymers Ch. 14 and 15
- Composite Ch. 16

### Materials Science relationship to Materials Engineering

**FIGURE 1.3** Materials knowledge spectrum: Using the combined knowledge of materials from materials science and materials engineering enables engineers to convert materials into the products needed by society.

### Properties of Materials

**Optical properties**  
 A. Relative index  
 B. Absorption, reflection, and transmission  
 C. Birefringence (double refraction)

**Corrosion properties**

**Deteriorative properties**

**Biological properties**  
 A. Toxicity  
 B. Biocompatibility

### Classification of Engineering Materials

```

    Engineering Materials
    ├── Metals
    │   ├── Ferrous
    │   │   ├── Iron
    │   │   ├── Pig iron
    │   │   ├── Cast iron
    │   │   ├── Wrought iron
    │   │   └── Steel
    │   └── Non-Ferrous
    │       ├── Copper & Alloys
    │       ├── Aluminum
    │       ├── Zinc
    │       ├── Tin
    │       └── Lead
    └── Non-Metals
        ├── Ceramics
        ├── Polymers
        ├── Composites
        └── Glasses
    
```

### Future

- Nanotechnology** - Synthesis and characterizations of nanomaterials and nanostructure
- Biotechnology** - biomimetics and biomaterials
- Energy/Environmental** - Next generation energy conversion
- Information Technology** - Materials informatics

### Materials Science & Engineering in a Nutshell

**Materials Science**: Investigating the relationship between structure and properties of materials.

**Materials Engineering**: Designing the structure to achieve specific properties of materials.

Structure → Properties → Performance

Processing → Structure → Properties → Performance



## Hi - Performance Machines for Productivity and Profitability

Always Ahead Than The Extant...



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 Director - Technical  
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Single Facer Fingerless Corrugation machine.



Electrical Shaftless Reel Stand

During over 3 decades of experience, we continue to "stay ahead than the extant" offering sound solutions to box maker in India and across the world, with machines that are designed to perform.

As the future unfolds, we look forward to strengthening our technological skills and building machines that will exceed the expectations of our customers and stand at par with International standards of excellence.



Pneumatic Type Single Facer Fingerless Corrugation Machine



Speed with Accuracy of 1mm  
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RS4-Rotary Slotter Machine Chain Feeder

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5 PLY IN LINE AUTOMATIC BOARD PLANT







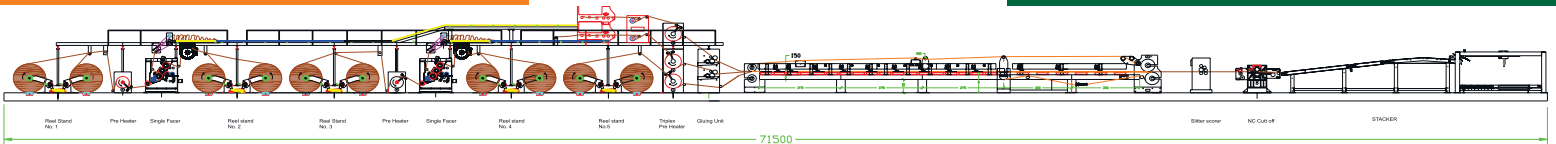
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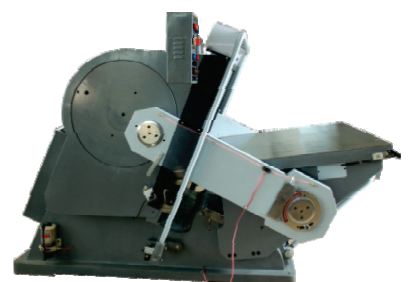
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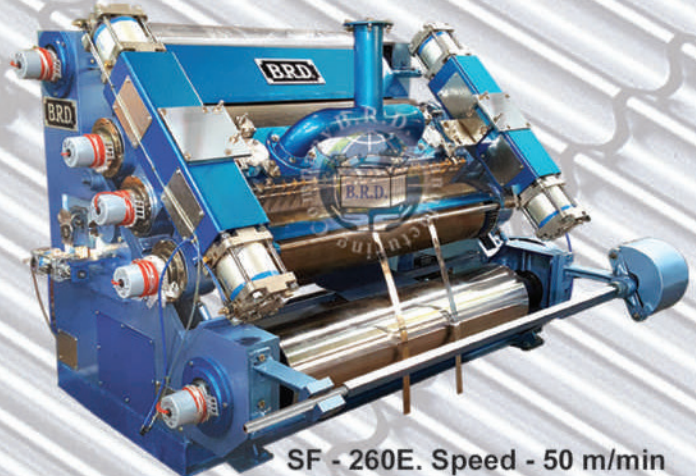


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## New Morai plant in operation

Seven-11 Industries has excelled in the printing inks manufacturing process, and have pioneered indigenous manufacturing of water-based printing inks, liquid (solvent) inks, screen inks, and auxiliaries.

The company's brand new 1.2L Sq. Ft. manufacturing facility at Morai (Vapi-Gujarat) Industrial Estate is now being operational. Vapi is strategically located close to the several designated chemical manufacturing zones in South Gujarat, enabling quick & cost-effective procurement of raw materials. This enables the company to deliver competitive products, both in price & quality to its customers.

With an annual inks production capacity of 24000 metric tons, the Morai plant is well equipped with automatic & semiautomatic processes to ensure high-quality consistent inks in every barrel.

The company is achieving new heights in the fast-evolving inks industry with a 'Customer-First' approach. As the MD of the company "Mr Raj Kumar Lodha" says, "Everyone at Seven-11 Industries is very excited about our new Morai plant now being operational. We



take this opportunity to thank all our customers and vendors who have been on this journey with us. With the 'Customer-First' approach, now the entire team is committed to serving you with the best of our products and services.

Our focus is more on our end-user requirements & challenges to ensure maximum value addition through our knowledge, capability & skill".

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Link for joining: <https://meet.google.com/bgo-jvyy-vkk>

### TOPICS

- Introduction to Metallurgy
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# From the Vice President (ICPMA)- Raunak Singh Bhurjee Latest Trends in Corrugated Packing space

## E-commerce

E-commerce retail sales are continuing to rocket, with estimates of around 20% annual growth in e-commerce trade in Europe only. The Global scenario is equally encouraging.

Global online sales are expected to be over \$5.5 trillion in 2023. This will have a profound impact on packaging demand, especially in the corrugated industry as it represents 80% of demand in e-commerce.

The increasingly complex logistics chain for direct-to-consumer delivery – e-commerce packages are expected to be handled up to 20 times or more during standard distribution – means there is new demand for cost-effective secondary corrugated board packaging.

Demands from brand owners are now being felt by the converting industry as many brands now require the secondary pack to carry their image into the home, not just the retail outlet. This increases the need for converters to produce high-quality graphic designs on the shippers themselves.

## Fit-to-product

Born out of e-commerce has been the advent of fit-to-product (FtP) or box-on-demand systems, driven in particular by the needs of dedicated

e-commerce sellers such as Amazon etc. This technology enables the production of customised secondary packaging based on the exact size of the product being packed, including irregular shapes. For the end-user, this eliminates the need for large inventories of standard-sized boxes which often require copious amounts of filler material.

As FtP platforms become more popular, there will be more demand for boards sold as fanfold, as well as finishing equipment, such as printers, that can operate with them.

Major moves are being undertaken to capitalise on this growth market.

## Sustainability

Corrugated board is proving popular in packaging as sustainability becomes a more important issue across the value chain – it is easy to recycle and the pulp and paper industry is already adept at converting these into new generations of containerboard. These qualities mean there has been a rise in the popularity of corrugated protective formats



over polymer-based alternatives, such as expanded polystyrene (EPS) foams.

While the lightweight board has long been affecting the corrugated industry, right weighting, and rightsizing are playing an increasingly important role in this market, not only in response to consumer demand for efficient packaging but also in response to the logistics chain's adoption of dimensional weight (DIM) pricing. In some instances, substituting to a heavier board grade can have a beneficial impact overall as it allows for the elimination of additional protective elements,

The desire to minimise the volume of air being shipped within all delivery channels means that in some instances there have been significant cost increases. For example, a 32-pack of toilet rolls costs an estimated 37% more to ship using charges based on dimensions, rather than simple weight.

The importance of lightweighting will continue to be felt over the coming years as retailers look to save costs as well as appeal to end users.

## Retail changes

Retail-ready packaging has established itself as a major cost saver for retailers, throughout the globe. This ongoing profit pressure is providing an impetus to use more retail-ready formats as a labour-saving solution, as it is estimated that these secondary packaging formats can reduce shelf restocking and handling costs considerably. It is also particularly popular with sales in convenience stores or discount retailers. For brands, it gives the added bonus of giving them greater control over the presentation of their goods within the retail space.

The expansion of e-commerce trade into the grocery sector is likely to have a slight impact on retail-ready packaging use as online sales do not require these pack types.

Corrugated cases will still be used to ship goods to an online retailers warehouse or 'fulfilment centre' but these do not need to be retail-ready formats. The emergence of subscription box and meal kit services – which offer direct-to-consumer delivery of specialist food using a weekly or monthly subscription – is providing some new opportunities for corrugated board suppliers with delivery-friendly

**Continued on page no-16**





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## Continued

formats containing goods within a die-cut interior.

**Digital printing advancements**

As the digital print market matures, the corrugated sector, while still in its infancy, has developed a growing appetite for the adoption of the process, and systems are now being developed to address the demands of the high-volume liner and post-print markets.

The flexibility of run-lengths, savings in set-up costs, the ability to personalise either relating to brands, regions, stores or individuals and the

level of quality now available through the latest technologies all combine to create a 'perfect storm of growth opportunities for converters and printers.

Brand owners are recognising the opportunities to grow dwindling brand loyalty through greater engagement with their customer base provided by these technological developments, and industry leaders see packaging as an important component in the creation of a memorable shopping experience that users will want to share via social media, which can drive marketing, encourage repeat business and attract new customers.

## Becker India join hands with Kalbro pumps for North India sales & service

Becker India a fully owns subsidiary of Becker Germany is a world leading vacuum and compression equipment manufacturer with it's headquarter in Wuppertal , Germany and it has 21 subsidiaries globally and becoming fully operation in India.

Now Becker India has joined hands with Kalbro Pumps a renowned company in this field since 1982 and appointed it as authorised distributor and service provider in Northern India.

Becker produces screw, claw, radial vacuum pumps, roots booster pumps, rotary vane compressors and side channel blowers. Becker has an annual turnover of Euros 200 million. Becker India has its headquarter in Bhukum, Pune. Kalbro pumps is a Delhi NCR based renowned company in this field and now serve customers with Becker German products and has a fully equipped after sales service and testing facility.

## Acme Machinery India Pvt Ltd (Mumbai)... Launching automatic combine pressure folder gluer machine for corrugated lock bottom cartons of size 1800mm.

Acme Machinery India Pvt Ltd , based in Mumbai is a manufacturer of Printing & Packaging machinery with 60+ years of experience in the corrugation industry.

The company is launching its "Automatic Combine Pressure Folder Gluer Machine" in India CORR EXPO, 8-10 Oct., 2022, Mumbai (Stall

no-A4A) for Corrugated Lock Bottom cartons of size 1800mm.

**Automatic Combine Pressure Folder Gluer Machine** This machine can be of use to the corrugated box manufacturers who specially require to run smaller size batch of corrugated boxes. It helps fast job change over thus saving time & money.



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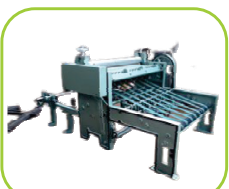
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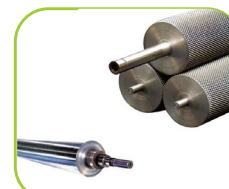
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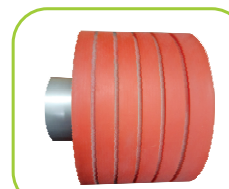
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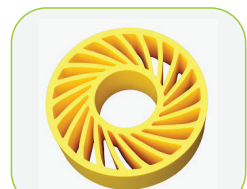
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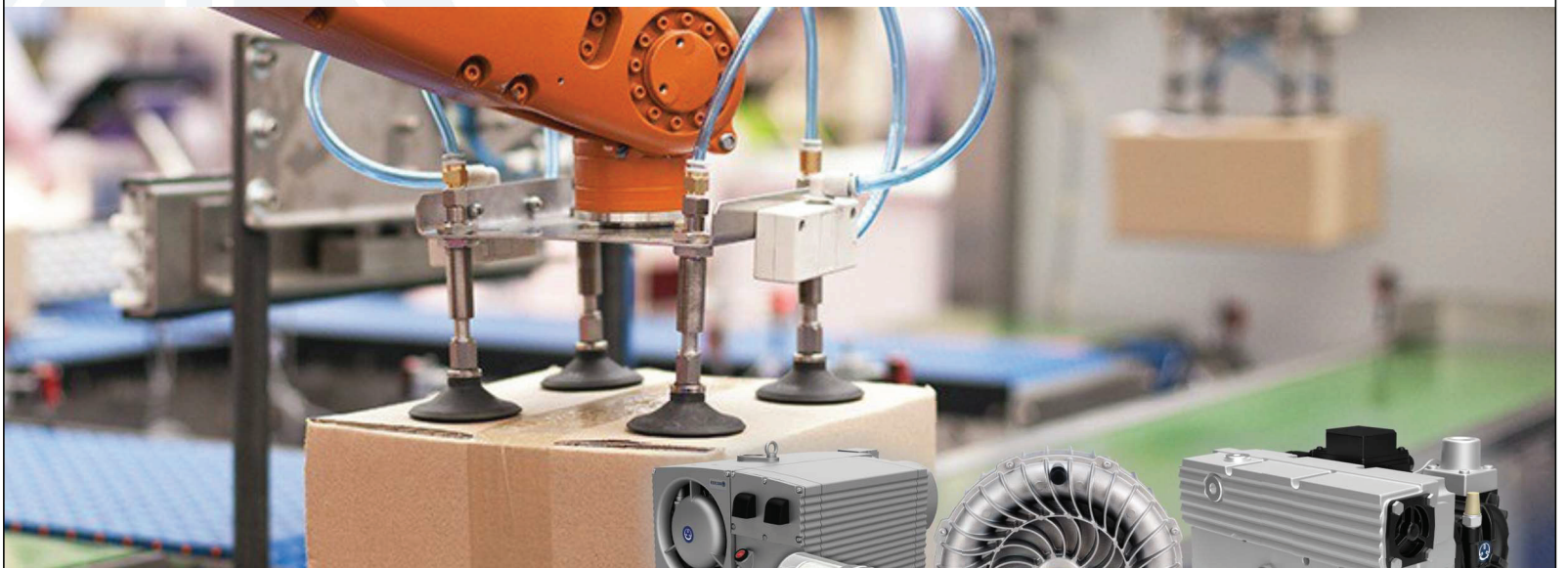
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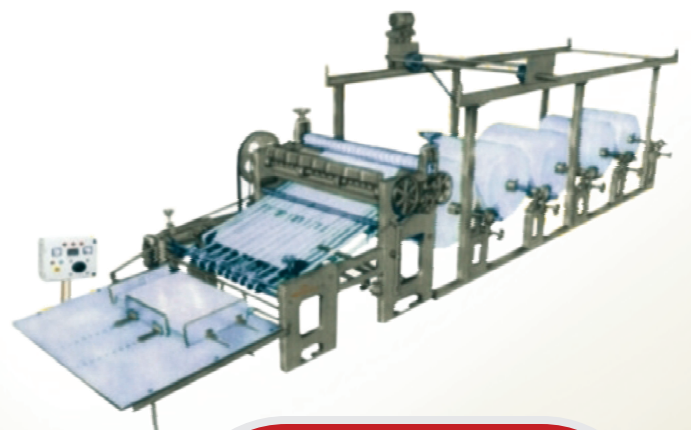
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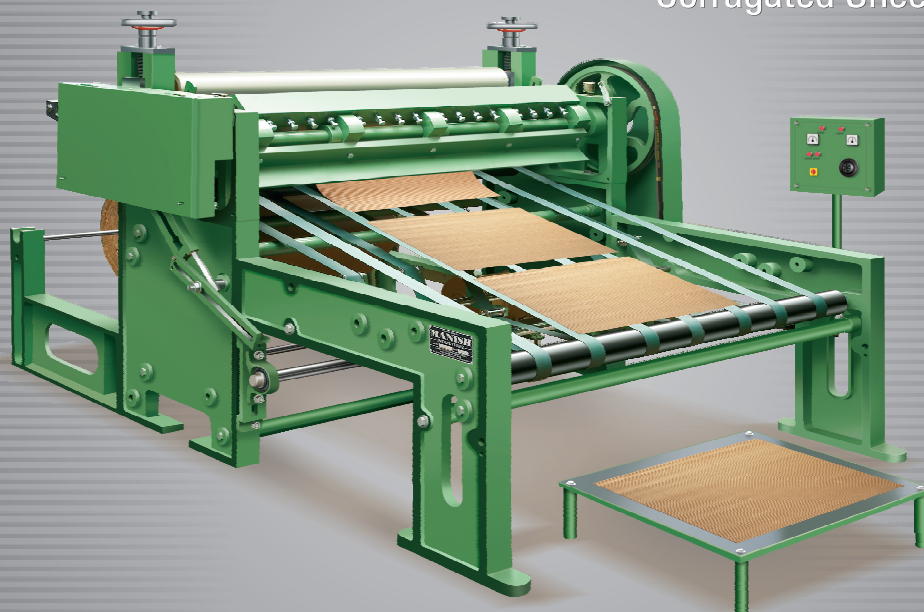
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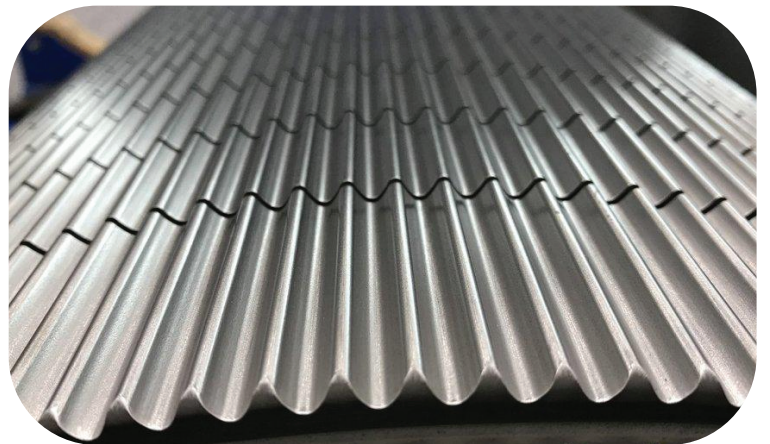


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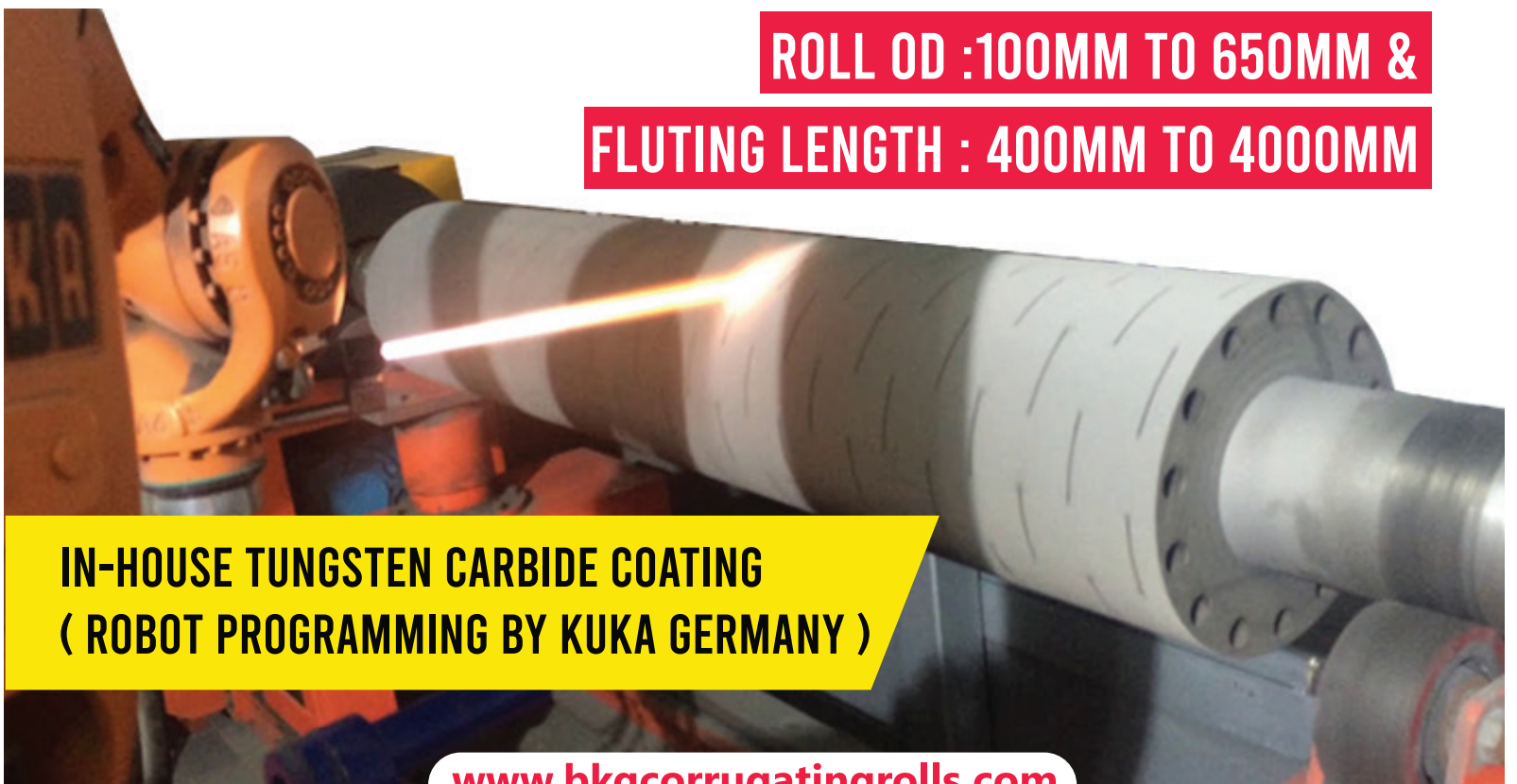
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