



Plastic Tomorrow

BI- MONTHLY MAGAZINE, BI - LANGUAGE ENGLISH & GUJARATI PLASTIC INDUSTRY PERIODICAL.

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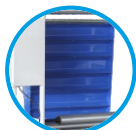
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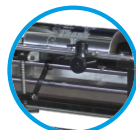
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OLP 52	380 mm	1320 mm	380 mm	760 mm
OLP 62	500 mm	1570 mm	500 mm	880 mm



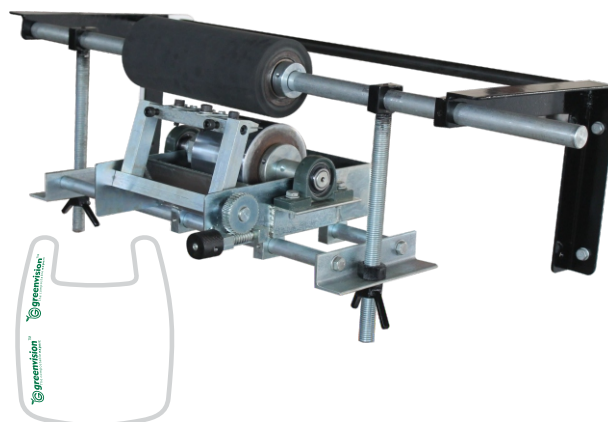
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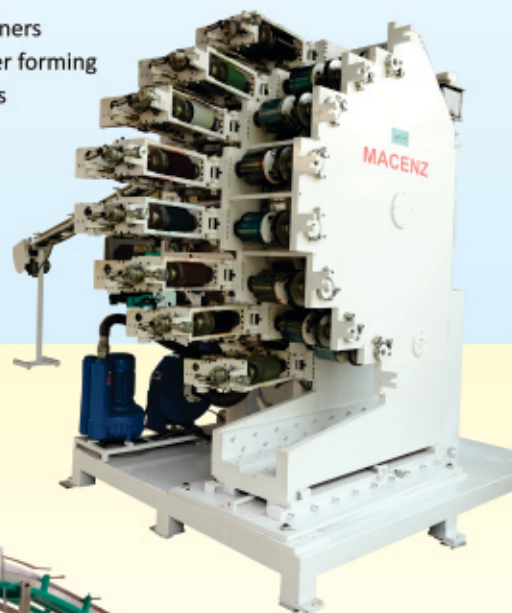
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The conference will take place in Bangkok from 10-11 March 2020

AMI, BRISTOL 1st October 2019 – In today's global packaging films market, there is no region more exciting and dynamic than the Asia Pacific region. Consumption is growing and companies are seeking to address a more demanding customer base. Consumer goods companies require flexible packaging with a combination of convenience features for busy lifestyles, a high level of food safety and, increasingly, packaging which not only protects the valuable product inside the pack, but also the environment, once the pack has been used.

How are companies managing to address these complex challenges? The conference will kick off with a market analysis of the future of BOPET in global packaging markets, by Andrea Jenn, Consultant with AMI Consulting, followed by packaging converter TPN Flexpak sharing a view into the future of flexible packaging in 2030.

Today sustainability is an issue which affects all manufacturers, large or small. Global brand PepsiCo Inc will kick off the session on environmental responsibility with a detailed look at recyclable and bio-degradable packaging films. Films producer Ester Industries will showcase their sustainable packaging solutions for flexible packaging and Kroenert GmbH will explore the latest innovations in process and machinery concepts for sustainable packaging. Flexible packaging manufacturers and suppliers are contributing to the sustainability agenda by developments which reduce food waste whilst also lowering the volume of raw materials used. High barrier packaging films are one such example, and Nippon Gohsei Asia Pacific Pte will introduce their latest innovation in high gas barrier materials, whilst PTTMCC Biochem Company will explain the benefits of a renewable carbon based polyester.

The fast pace of change in the FMCG sector means that companies must constantly keep track of changing regulations and new technology. The National Reference Laboratory For Food Contact Materials, Guangdong IQTC will explain the current circumstances for China FCMs. Taisei Lamick Malaysia and Morchem will share new technical and performance solutions.

Asian consumers are following the global mega - trend towards healthier foods. Ruchi Soya Industries, an Indian food manufacturer, will share their view of flexible packaging in the food industry, followed by Polyplex, explaining how they are helping customers with the challenges of post-consumer multilayer plastics.

The increasing use of barriers to extend shelf-life and improve packaging performance will be explored on Day 2, with contributions to discussions from Gap Srl, UBE, Max Specialty Films and Bobst.

Along with downstream performance, advances in raw materials solutions are at the forefront of optimising flexible packaging performance. Dow Packaging and Specialty Plastics will present a paper on designing for recyclability. Borouge Pte and HMC Polymers will conclude the second day of the conference, sharing technical advances in materials for specialty packaging films.

The conference provides a great opportunity to network with local and international experts in film packaging and learn about the latest technology and market updates. Meet buyers, converters, manufacturers researchers and industry suppliers at Specialty Packaging Films Asia 2020 and keep your competitive edge!

The full programme can be found on AMI's website: www.amiconferences.com

About AMI:

We are the leading provider of information, market intelligence and conferences for the global plastics industry. Our business is underpinned by our talented staff and our unique databases. Our Consultants, Researchers, Writers and Event Organisers include many of the most respected experts in their fields. We can help you grow your business by identifying exciting market opportunities, new customers and innovative technologies from our intimate understanding of the global plastics processing industry, knowledge of how the markets have changed and where they are heading.

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Cosmo Films Limited Consolidated Results

Cosmo Films reports 184% increase in quarterly PAT

In Rs. Crores	Q2 FY20	Q2 FY19
Net Revenue	555.9	531.4
EBITDA	64.5	43.2
PBT	37.7	13.7
PAT	28.7	10.1
EPS (in Rs.)	15.0	5.3

New Delhi, November 13th, 2019: Cosmo Films Limited, a global leader in films for packaging, labeling & lamination applications and synthetic paper today declared its financial results for the quarter ended Sept, 2019.

Q2 FY20 net revenue increased 5% YOY mainly on the account of growth in sales volumes. The company achieved EBITDA of Rs. 64.5 crores during the quarter. Higher speciality sales (up 14%), increased sales volumes, improvement in US operations and better BOPP film margins contributed to an improved EBITDA.

The company has started to upgrade one of its largest BOPP film line into a speciality film line, which is expected to be completed by H1, FY21. This will facilitate further growth of speciality films.

During the period, the company received the CII National Excellence Award 2019 for 5S Implementation at its Waluj plant (the oldest plant). Building on the strong R&D focus, the company has applied for multiple patents in the current year, adding to the already strong pipeline of specialty films. These high value-add specialty films will be commercially launched in the coming months and will generate incremental profits with minimal capital expenditure.

Commenting on the financial performance of the company, Mr. Pankaj Poddar, CEO, Cosmo Films Ltd. said, "We continue with our strategy to focus on high end specialty films sale and recyclable structures. BOPP films margins looks stable at the current level. Better utilization of assets and improvement in US subsidiary further contributed towards improved results."

About Cosmo Films Limited

Established in 1981, Cosmo Films is a global leader in speciality films for packaging, lamination and labeling applications. With engineering of innovative products and sustainability solutions, Cosmo Films over the years has been partnering with world's leading F&B brands, packaging & printing converters to enhance their consumer experience.

Company's film offerings include BOPP and CPP films. Today, the company is the largest exporter of BOPP films from India and also the largest producer of thermal lamination films in the world. Its customer base is spread in more than 100 countries with manufacturing units in India, Korea & Japan.

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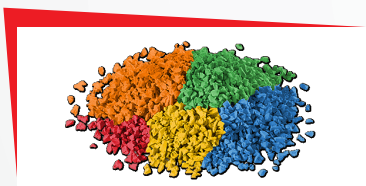
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A GLOBAL CONGREGATION OF PLASTICS AND POLYMERS INDUSTRY

INDIA PLASTICS SHOW 2020 is a global platform for an industry confluence to everyone who matters in the plastic industry joined by manufacturers, suppliers, innovators and customers from across the globe. The major focus of the exhibition will be on **EXPLORATION, INNOVATION, EXPANSION AND CO OPERATION**. The exhibition will showcase the latest technological developments in the field of plastics and polymers, offering a world of global technological know-how, consulting and joint venture opportunities. The event – **INDIA PLASTICS SHOW 2020** is being held from 20th to 22nd September, 2020 at the prestigious Helipad Exhibition Centre, Gandhinagar, Gujarat. The exhibition is conceived and promoted by **KAND D Communication Ltd.**

The major exhibitor groups for the plastic industry in the exhibition will include exhibitors from the fields of Machinery: plastic processing machine, preprocessing and recycling, blow molding, packaging machines, plastic welding, quality control and testing machinery, Ancillary equipment, hot runner system, extrusion tools, offset printing and reinforced resins machines. Materials: Additives & Fillers, Master batches, Coating Compounds, Bio plastics, organic and inorganic Pigments, Synthetic fibers, foams and intermediates, fillers and adhesives, anti fogging agents, polymer distributors and suppliers of CPE and PVC compounds bio plastics. Products and Packaging: Molds and dies, automotive parts, housewares/ kitchen wares, packaging products, electrical components and appliances, plastic pipes and pipe fittings, mold bases and parts.

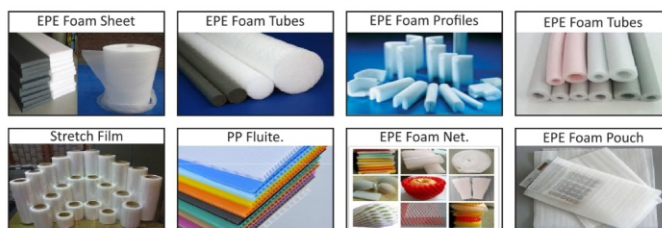
Recycling: Preprocessing and recycling machines, recycling technologies, resins, waste consultants, shredders, washing and regranulation, densifiers, agricultural plastic bag manufacturers.

The exhibition is organized by K AND D COMMUNICATION LIMITED, India's leading exhibition organizing company. With the grand venue of Helipad Exhibition Centre spread over 45 acres with 15 exhibition halls and the extensive global reach of the global participants of the plastic industry, this exhibition will bring in tons of opportunities for all those in the plastic industry. For further information, write to sales@kdcglobal.com OR Visit www.kdcglobal.com

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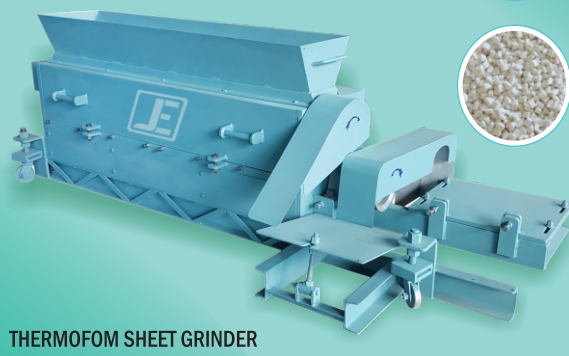


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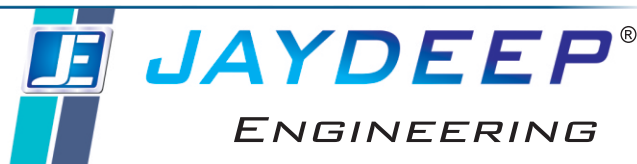
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Lean Manufacturing Example - How To Make Your Injection Molding Business 5% More Productive Immediately And Save Costs

Here is a lean manufacturing example that will get injection molders at least 5% more productivity immediately without spending a Rupee.

The technique I use in this example is based upon 5% Rule.

5% Rule says that most injection moulding machines can give at least 5% more productivity because cycle times have not been optimized.

Have you ever noticed in a manufacturing company how a certain culture exists whereby a particular level of production becomes acceptable and few people are willing to question how much more productivity is possible with the existing machinery?

The machine operator might have become complacent because the management have also become complacent or the management don't have the technical background to understand how the process could be improved. Instead management are considering investing hundreds of thousands of dollars in new machinery with new technology.

Before investing in new equipment why not see how much more productivity your existing machinery has to offer?

Cycle Time Reduction

If cycle time is reduced by 5% then productivity will increase by 5%.

Take, for example, an injection molding machine producing a food container part.

If the annual requirement of this part is 400,000 then with 5% more productivity this machine will produce 420,000 parts which is 20,000 more parts per year. And if each product sells for 2 then this is an increase of 40,000 in sales revenue per year per machine - a tidy return for very little investment of time.

What's more, if there are ten machines in your company with the same production requirements the extra sales revenue will be 400,000 per year.

And how do I expect to achieve this 5 % extra productivity immediately without any investment of money?

Let me explain with a lean manufacturing example.

Lean Manufacturing Example

Consider the same injection moulding machine producing a food containers with a cycle time of 9.1 seconds. If the cycle time is reduced by 5% then the cycle becomes 8.6 seconds which means some part of the cycle needs to be reduced by 0.5 seconds. In the injection moulding process there are typically 6 phases that occur during each cycle.

The 6 phases:

1. Mould closing
2. Injection of plastic into the mould
3. Holding of plastic in the mould to allow proper formation of the container
4. Cooling of the container so that it is rigid enough to eject from the mould
5. Opening stroke of the mould
6. Ejection time; the container can be physically ejected off the mould

The following is a real life example performed on an injection molding machine in Melbourne, Australia running a 2 cavity mould.

The 9.1 second cycle time had the following breakdown:

Phase (Seconds)

1. Closing 1.3
2. Injection 1.2
3. Hold 2.0
4. Cooling 2.1
5. Opening 1.5
6. Ejection 1.0

Total 9.1

In order to reduce the cycle time by 0.5 seconds, the first thing considered was the phase that would have the smallest effect on part quality. This was the ejection time.

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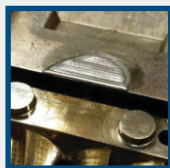
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In this example the ejection was started 0.2 seconds earlier while the mould was still in the opening stroke. There was no need to wait for the moving side to completely stop before starting the ejection stroke. Therefore, the ejection time was reduced to 0.8.

Additionally, the opening and closing times were reduced by 0.1 each saving another 0.2 seconds by reducing the opening stroke.

Another 0.1 was subtracted from the cooling time which achieved our target of 0.5 seconds. Although the part shrinkage was slightly more it was still within the quality limits and made no difference to the end user.

Here is a summary of the changes:

1. Closing 1.3 reduced to 1.2
2. Injection 1.2 unchanged
3. Hold 2.0 unchanged
4. Cooling 2.1 reduced to 2.0
5. Opening 1.5 reduced to 1.4
6. Ejection 1.0 reduced to 0.8

Total cycle changed from 9.1 to 8.6 seconds without effecting quality

Additional Comments

From this case study one can see that there are 6 parameters that could be used to share the 0.5 second reduction in cycle time. This means there are several combinations that could be used to reduce the cycle time. For example, in the above example as it turns out the hold time could have been reduced by 0.2 seconds without any change in part quality.

It's a matter of looking at each mould and machine combination on a case by case basis. To see what works best. In some cases the mould and machine might already be operating at their limits so it is not possible to reduce cycle time.

Also, on some molding machines the plasticizing screw recovery time will have an effect on cycle time if the machine doesn't have a shut off nozzle.

Injection moulding companies have millions of Rupees invested in machinery and tooling so it is vital to get the most out of them. The right mindset is important to run efficiently as possible so as a factory owner, manager, leading hand or moulding technician you should be asking yourself how can I improve productivity by 5% today?

Example

Consider the same injection moulding machine producil would like you to choose one moulding machine in your company that is producing a part with a stable cycle time and attempt to reduce that cycle time by 5% by using the above lean manufacturing example as a guide.

And once you have established a 5% cycle time reduction on a particular machine, try reducing the cycle time by another 5% until quality issues become your limiting factor. Use this approach on every machine in the company. Target one machine per week and just see how much more productivity can be achieved. You might be surprised how much difference it could make.

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આજકાલના સમયમાં જ્યારે અનેકાનેક ઉદ્યોગો અસ્તિત્વ ધરાવે છે. એનાથીયે ઉપર જ્યારે બજારમાં આવા ઉદ્યોગો ચલાવવા માટે અનેક લોકોની મોટી ભીડ છે, વિચારણાનો વિષય એ છે કે કઈ જાતના અને કેવા ધંધ શરૂ કરી શકાય ?

પ્લાસ્ટિક :-

પ્લાસ્ટિક એક એવી તકો આપે છે કે જેમાં ૧૫ થી ૨૦ ટકા ઉદ્યોગ નો વાર્ષિક વિકાસ થાય છે, જ્યારે બીજા અનેકાનેક ઉદ્યોગો ને મંદી ઘેરી વળે છે.

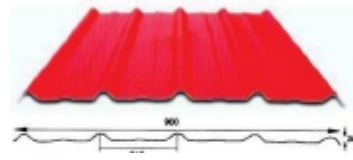
અનેક મટીરીયલ ની જગ્યા પ્લાસ્ટિકે લઈ લીધી છે. પ્લાસ્ટિકને લોખંડની જેમ કાટ લાગતો નથી. લાકડાની જેમ કઠોવાતું નથી. વજનમાં હલકું છે અને સસ્તું પણ છે. એના ઉત્પાદન માટે ઓછી ઉર્જા લાગે છે. આસાનીથી રી-સાયકલ થાય છે. નાના માં નાના માણસો પણ પ્લાસ્ટિકના ધંધામાં પડી શકે. સબસીડી-અનેક જાતની ચાલાકીઓ વાપરીને લોકો સરકારને મુશ્કેલી બનાવીને પડાવી જાય છે. જય હિંદ.

હવે કામની વાતો કરીએ :-

પ્લાસ્ટિકમાં હવે કરવાં જેવા ધંધાની વાત :- કાગળને પ્લાસ્ટિક લેમીનેટ કરો. પ્લાસ્ટિક લેમીનેટેડ કાગળ, પેપર કપ, મિઠાઈનાં ખોખાં, અને બીજા અનેક જાતના પેકેજીંગ માટે જરૂર પડે. મશીનરી માં રોકાણ રૂપિયા ૮૦ લાખ આશરે.



પ્લાસ્ટિકની પેન્સિલ બનાવો :- મશીનરી માં રોકાણ રૂપિયા બે કરોડ આશરે, મોટું ઉત્પાદન અને મોટો ધંધો, ખુબ મોટો નફો.



પ્લાસ્ટિકનાં રૂફીંગ શીટ બનાવો :- મશીનરીમાં રોકાણ આશરે રૂપિયા એક કરોડ સાઈઠ લાખ સુધી. ખુબ મોટો ધંધો અને નફો.

પ્લાસ્ટિક એર બબલ ફિલ્મ :- ૨/૩ ૪/૫ લેયર



પેકેજીંગ ફિલ્મ. મશીનરીમાં રોકાણ આશરે રૂપિયા પચાસ લાખ.



પ્લાસ્ટિકની એક દિવાલ વાળી કોરુગેટેડ પાઈપ બનાવો :- મશીનરીમાં રોકાણ રૂપિયા બ. વી. સ. લ. ખ. થી



પ્લાસ્ટિકની સૂતળી-દોરી બનાવો :- મશીનરીમાં રોકાણ આશરે રૂપિયા એકવીસ લાખ.



પ્લાસ્ટિકની લુપ પીન બનાવો :- મશીનરીમાં

રોકાણ આશરે રૂપિયા ૩૦ લાખથી શરૂ.



પ્લાસ્ટિકની ઇજેક્શન સીરીંજ :- ફક્ત રૂપિયા ૦.૮૫માં તૈયાર થતાં આ સીરીંજ રૂપિયા ૧.૧૫ માં વેચાય છે. મશીનરીમાં રોકાણ આશરે રૂપિયા બે કરોડ.

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પ્લાસ્ટિકનાં ઇમીટેશન
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રૂપિયા ૨૦ લાખથી શરુ.



પ્લાસ્ટિકનાં પ્લાયવુડ જેવા બોર્ડ, મરીન પ્લાય જેવાં
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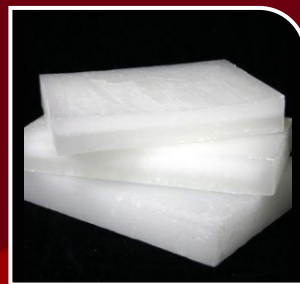
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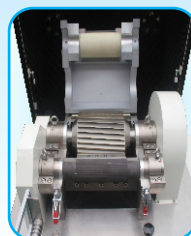
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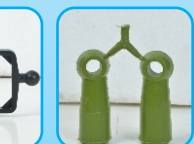
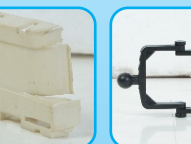
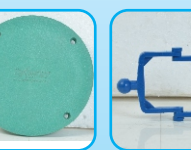
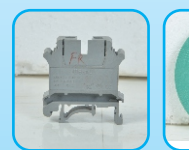
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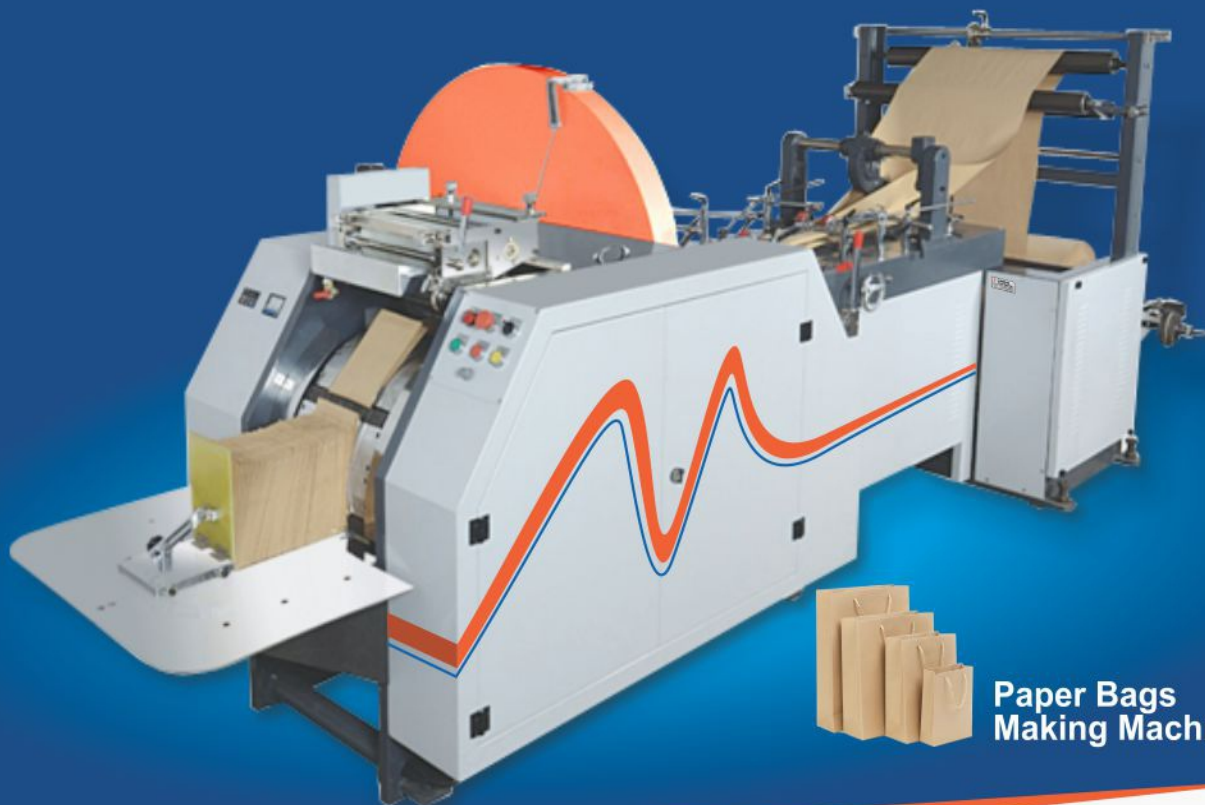
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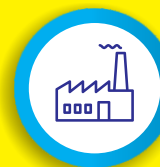
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