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Twin Screw & Barrel



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- ⊙ Pin Filled Copper Roller
- ⊙ Banana Roller (Expander)

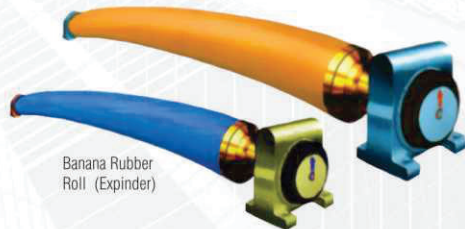
Rubber Range of G.R.W

- ⊙ Synthetic Nitrile Rubber
- ⊙ Neoprene Rubber
- ⊙ E.P.D.M Rubber
- ⊙ Hypalon Rubber
- ⊙ Silicone Rubber
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- ⊙ P.V.C Nitrile Rubber

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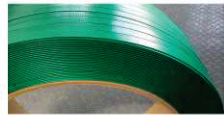
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HDPE Extruder



HDPE TRACTION UNIT



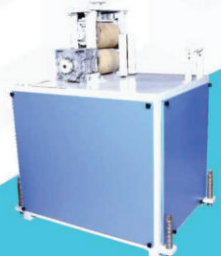
HDPE DIE HEAD



COATING MACHINE



GARDEN EXTRUDER



GARDEN TRACTION



DRIP EXTRUDER



DRIP TRACTION



DRIP AUTO WINDER MACHINE

Our Product Range

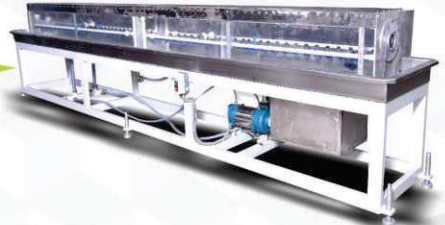
- ⇒ Round Drip Plant
- ⇒ HDPE Pipe Plant
- ⇒ Flat Drip Plant
- ⇒ PVC Pipe Plant
- ⇒ Braided Hose Pipe Plant
- ⇒ Garden Pipe Plant



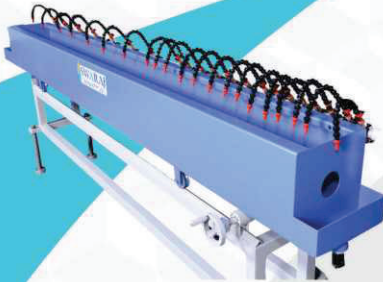
Website



HDPE VACUUM TANK



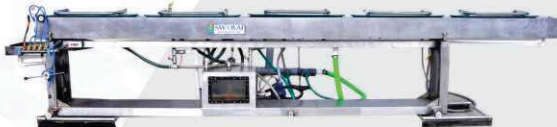
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Twin Screw Pipe
Extrusions Line



Die Head



Vacuum Sizing Tank



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Tube / Pipe
Traction Unit



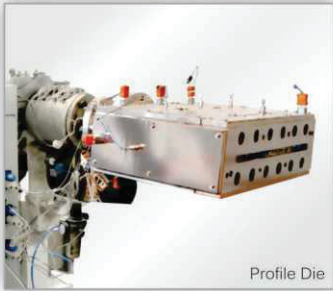
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Calibration Table



Hydraulic Haul Off



Twin Screw Profile Extrusions Line



Profile Auto Cutter





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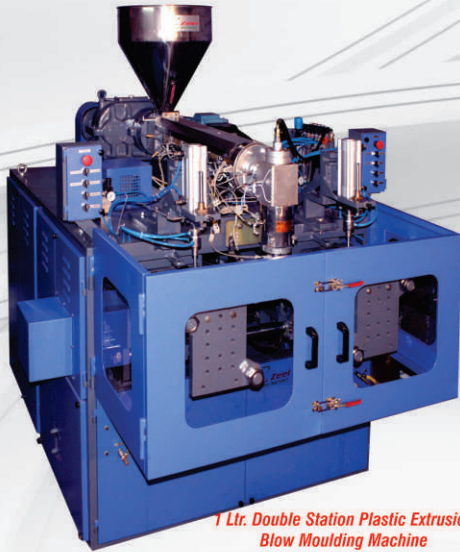
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1 Ltr Single Station Plastic Extrusion Blow Moulding Machine.



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1 Ltr. Double Station Plastic Extrusion
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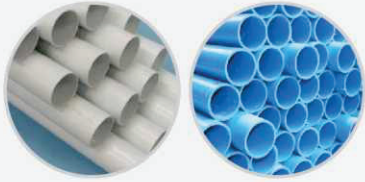
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Twin Screw Extruder
(PVC / uPVC / cPVC)

Product Range								
Model	UTS 110	UTS 140	UTS 170	UTS 200	UTS 250	UTS 350	UTS 450	UTS 550
Extruder Drive (kW)	11	11	15	22	22	30	45	56
Screw Dia (mm)	52	52	65	65	65	71	91	91
L.D. Ratio	20.1	22.1	22.1	22.1	22.1	28.1	22.1	25.1
Output (Kg/Hour)	100 110	130 140	150 170	180 200	220 250	320 350	420 450	520 550
Pipe Range (mm)	20 110	20 110	20 200	20 200	63 250	110 315	110 400	110 400

* Performance varies depending on the dimensions and material.



Vacuum Calibration Tanks



Tube/Pipe - Cutting Unit



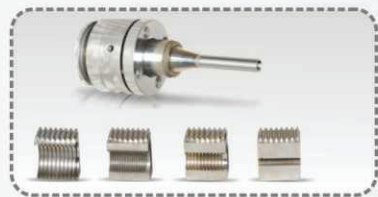
Tube/Pipe - Traction Unit



Website



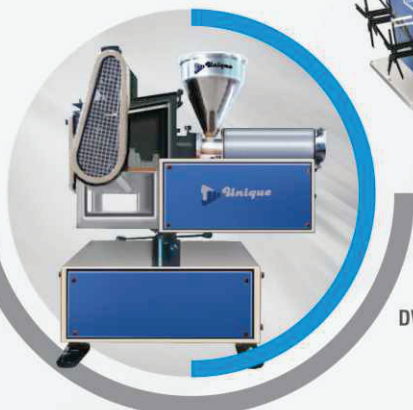
Die Heads



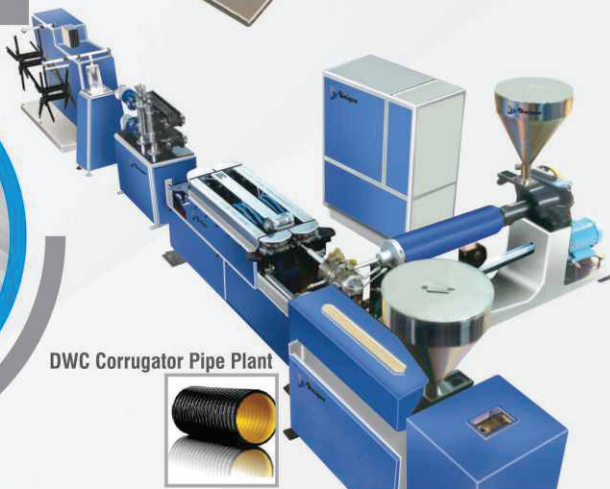
Flexible Pipe Corrugator Mould



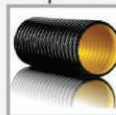
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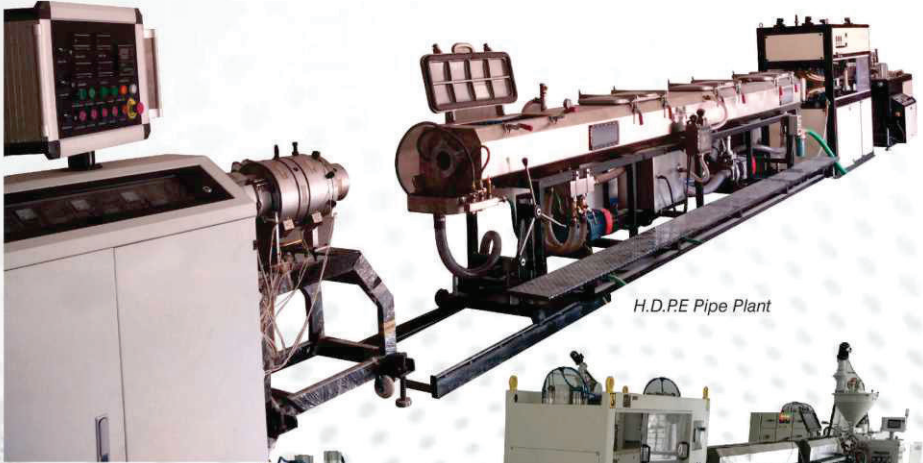
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PVC Pipe Plant



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Twin Screw Extruder



Haul-off/Traction Unit

Product Range

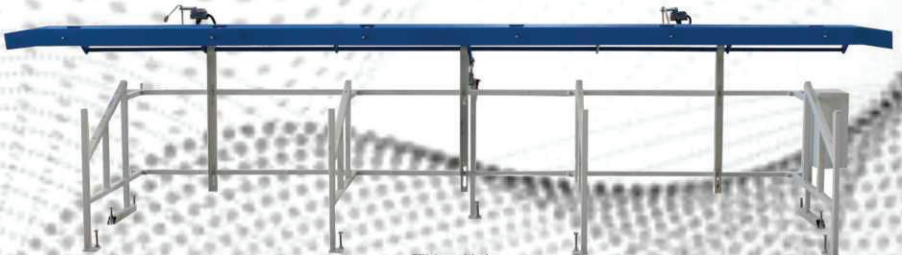
- P.V.C Pipe Plant
- H.D.P.E Pipe Plant
- Vaccum Sizing Tank
- Haul-off/Traction Unit
- Cutter Unit
- Tilting Unit



Vaccum Sizing Tank



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Product Range Of C.E.W

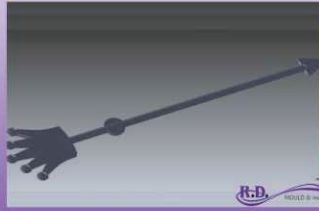
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- Plywood Machine Rollers
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High Speed T-Shirt Bag Making Machine



Side Seal Bag Making Machine



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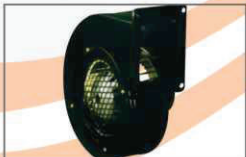


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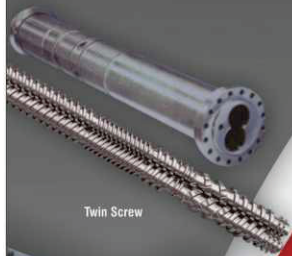
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IPLEX 2017

8th IPLEX 2017: A grand international exhibition shall showcase new plastic technology for old and new players. Global opportunities waiting for new entrepreneurs.



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Last 3 years stable government has also provide current in business economy. Our PM Shri Narendra Modi has also take serious interest in the developmne tof India and for the same purpose he has visited at least 50 countries without taking rest.

Since last 20 years plastic sector in India is developing very fast and currently this business is now in billions of rupees. Foreign exhibitions held in foreign also have also shown excellent result and indian machineries are now getting good responce from export. Plastic business is spread widely in all over the world and its future is bright forever.

Currently rates of oil & crude is showing new bottom at every month. A cold war between America and Opec is on surface. Due to America's own production from homeland it buys less oil and crude from Arabian countries. On the other hand China is doing suspicious activity to get possession in Hind Mahasagar. China also need badly oil & crude which is main vein of industrial sector to survive abd so China is not support to India on so many sensitive issues. Indian ocean is having ample stock beneath the ocean and so America and China both are taking interest in this area. Reducing price of oil & gas is in the benefit of India. We have to pay billions of rupees to arabian countries for the supply of oil & gas.

As far as the platic business has concern it is a very good situation that in this circumstances OPEC countries shall not increase the value of oil & crude. In short the plastic business gets effects of international level politics also which decides the future of plastic industries.

We The Orient SP-Age Publications wishes grand success to IPLEX 2017.

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Packaging of a product not only ensures a safe and secure reach to the end-user, but also significantly affects the way the product is presented to the consumers from the marketing perspective. New technologies such as intelligent packaging, active, smart packaging, and modified atmosphere packaging are replacing traditional methods such as canning. Advanced packaging interacts internally (active packaging) as well as externally (intelligent packaging) with the environment and enhances the visual appeal of the products. Besides this, smart and active packaging also ease the process of bulk transportation. With the technological advancements, innovative packaging alternatives are now available for the manufacturers to innovate their consumer outreach and gain market share. The food industry in particular, which is currently at its peak, is the primary driver in the global active, smart, and intelligent packaging, besides the growing requirement of packaging that can more efficiently control gas and moisture.

As per Transparency Market Research, active packaging, modified atmosphere, and intelligent packaging technology are of the technology segments of this market, whereas application segment can include seafood, meat and poultry, soup, confectionaries, dairy products, and fruits and vegetables. Some of the emerging packaging products are advanced time-temperature monitors, antimicrobial packaging, and smart phone-enabled interactive packaging products. Most of these products are anticipated to develop further during the forecast period and pave way for manufacturers to impress their consumers. Due to the escalating demand for packaged food, such as ready-to-cook, from the urban population across the globe, coupled with increasing food safety concerns that is quickly becoming a norm for several industries, the market for active, smart, and intelligent packaging is expected to stay in good stead. This market is also expected to grow on account of increasing need for to retain freshness and nutritional value of the products, at competitive prices. In particular, the report anticipates intelligent packaging market to expand faster as products such as time-temperature indicators and smart labels become common. The report also suggests that active packaging demand will be driven by the growth in gas scavenger products,

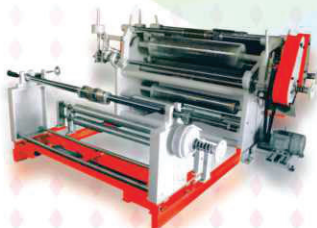
which are benefiting from the development of more advanced technology and growing preference toward foods with fewer additive. Currently, the region of North America serves the maximum demand for active, smart, and intelligent packaging, as far as geographical segmentation of this is concerned. Owing to factors such as stringent legislations regarding food and beverage packaging in the country-wide markets of the U.S., and Canada, the demand from North American region will sustain during the forecast period. However, the demand from the region of Asia Pacific which resides several emerging economies, is also expected to swell considerably in next few years. The key players in this market, such as Amcor Ltd., Graham Packaging Company Inc., Landec Corp., Ball Corp., Timestrip Plc, VIP Packaging, Sealed Air Corp., SYSCO Corp., Mitsubishi Gas Chemical, notice this requirement as are continuously investing on research and development to gain ground over their competitors. As per TMR, ambient food packaging refers to packing a food product in pasteurised and sterilized packs to increase its shelf life. Ambient food packing has become a trend in the food packaging industry and ambient food products are preferred by majority of the consumers over others. Increasing demand for having more empty space in chill cabinets calls for the adoption of the food packaging methods that can offer a better shelf life to the product even without a refrigerator. Demand for sustainable packaging material has become a new trend in the ambient food packaging industry. Ambient food packaging bestows extended shelf life to the food product as compared to the usual packaging methods and, thus, enables storing the product at room temperature. Additionally, it also makes use of high barrier sheets, which assure that certain important aspects related to food storage, such as safety of food stored inside, consumer convenience, and attractive design, are taken care of. All these supporting factors have led to the increased demand for ambient food packaging among food manufacturers globally. The ambient food packaging market can be classified on the basis of types of containers used, on the basis of food,

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Active, smart and intelligent packaging to grow amid demand for packaged food, increasing food safety concerns



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Active, smart and intelligent...

and by packaging material. On the basis of containers used, the ambient food packaging is segmented into tray, pots, lids, cups, and bowls. On the basis of food, the ambient food packaging market is segmented into ready meals, baby foods, soups and sauces, seafood, fruits and vegetables, coffee, and pet food. On the supply side, major players in the market have started offering services, such as blow moulding, injection moulding, and thermoforming, which has been leading to the additional demand for the packaging type. However, high level of processing required in case of ambient food packaging ultimately adds to the overall cost of packaging product, which poses as a potential threat for growth of the global ambient food packaging market. Main market for ambient food packaging lies in Asia Pacific, as demand for packaged food is increasing along with the growing population and rising disposable income levels of consumers in the region. The Asia Pacific market is anticipated to be followed by North America and Western Europe, as these markets account for the largest share of canned foods consumption across the globe. The Western Europe market is expected to be followed by South America, Eastern Europe, and Middle East & Africa markets. However, the global ambient food packaging market is still expected to be dominated by the emerging economies.

As per Smithers Pira, the global smart packaging market value is forecast to grow during the five-year period to 2021 at an annual rate of 7.5% to US\$7.6 bln. The global active packaging market value is forecast to grow during the five-year period to 2021 at an annual rate of 4.9% to US\$5.6 bln, while intelligent packaging is forecast to grow 18% pa to almost US\$2 bln. "The high cost of active and intelligent packaging has always been a factor restraining growth, particularly since cost-competitiveness is a key determinant of success in the retail industry. Smart packaging technology providers are however getting the unit cost of smart tags and labels down and raising their performance," according to David Platt, author of the report. Smithers Pira believes intelligent packaging is the dynamic and potentially high-growth market, with developments in printed electronics, Cloud computing and the Internet of Things (IoT) driving the adoption of these technologies. Whereas active packaging is a relatively mature market in comparison, although there are good growth opportunities for several technologies in niche markets. The growing consumer concern regarding food waste and food safety is being met by both active and intelligent components. Active technology can now routinely double the effective shelf life of many perishable products, while intelligent packs offer clear signals about the condition of the product, removing the need for arbitrary 'best before' labels.

Smithers' research shows that brand owners now want usable products, not just a technology or component, that adds real value to their brand, rather than short-term marketing gimmicks. They also want to see active and intelligent packaging developers working together, and also collaborating with design houses and packaging

manufacturers, to provide total finished solutions.

The Global Smart Packaging market is accounted for US\$27.2 bln in 2014 and is expected to grow at a CAGR of 6.5% to reach US\$45.03 bln by 2022, as per Wise Guy Reports. The challenge of the market includes High R&D costs and lack of sustainable E-Packaging products. Advancement in printed technology is the opportunity that reside the market growth. Limited user awareness, High rate and accessibility are the restraint factors for Smart Packaging. The key drivers include change in consumer lifestyle, Food consumption and demand for Smart Packaging. The global smart packaging market is expected to reach US\$26.7 bln by 2024, according to a new report by Grand View Research, Inc. Rising need for smart packaging products owing to increasing usage in the end use industries such as electronics and automotive on account of its superior protection properties is expected to fuel the growth over the forecast period. Rising industrialization in emerging regions including Asia Pacific and the Middle East is expected to drive the industry over the next eight years. Increasing application scope in the logistics industry pertaining to the surging use of RFID tags at multiple levels to speed up locating products, and to improve the availability of real-time information coupled with the elimination of record loss is expected to drive the demand over the next eight years. Moreover, rising investment to improve the logistics industry within emerging economies such as China and India are projected to propel the industry growth. Active Packaging accounted for over 70% of the market in terms of revenue on account of superior corrosion and moisture control properties. Growing use of the product in the automotive sector is likely to drive the demand over the forecast period. Further key findings from the report suggest:

* The global smart packaging industry in terms of revenue was US\$10.8 bln in 2015 and is expected to reach US\$26.7 bln by 2024, according to a CAGR of 10.6% from 2016 to 2024.

* NFC (near field communication) is projected to be the fastest growing segment within intelligent packaging registering a CAGR of over 12% from 2016 to 2024. Usage of NFC in the telecom industries is rising exponentially. Smartphones equipped with NFC which can be paired with NFC tags or stickers, programmed by NFC apps to automate tasks and hence, is likely to fuel the growth of smart packaging market over the forecast period.* Personal care sector is expected to register a CAGR of over 10% from 2016 to 2024 accounting for about 9% of the total market in 2015. Growing demand for personal care products particularly organic products on account of rising awareness about various health benefits over their synthetic counterparts is likely to fuel the industry over the forecast period. Automotive segment held a significant share of over 10% in 2015. The industry is expected to grow at a CAGR of around 12% from 2016 to 2024. Growing use of RFID tags in the automotive industry to improve the production efficiency is expected to drive the demand over

the forecast period. Also, rising use of RFID tags in the automotive industry for asset tracking and supply chain management is expected to propel the industry growth.

* Asia Pacific accounted for a significant share of over 11% in 2015. The ready availability of raw materials coupled with cheaper manufacturing costs is expected to drive the growth. The region is also projected to witness growth of over 14% from 2016 to 2024.

* The industry is moderately fragmented with the presence of a large number of prominent participants across the globe. Some leading companies operating in the global market include 3M, BASF, Du Pont, Avery Dennison Corp., Amcor Limited, Sealed Air Corporation and International Paper. 3M is an American company involved in product development, manufacturing, and marketing for businesses including industrial, safety & graphics, electronics & energy, healthcare, and consumer. The company manufactures a wide range of products which includes abrasives, maintenance, automotive, materials, films, hand hygiene, home improvement, components, patient monitoring, personal safety, signs & displays, filtration, surgical solutions, wire & cable and tapes & adhesives. Demand for active and intelligent packaging in the US is forecast to expand 7.3% pa to US\$4 bln in 2019, according to Freedonia, with intelligent packaging to record the fastest growth as products such as smart labels and tags become more common. Intelligent packaging, which incorporates features that indicate status or communicate product changes and other information, will advance at a double-digit rate, 11.1% pa to 2019 to a value of US\$1.5 bln. Although many of these products have been seen as unnecessary or cost prohibitive in the past, the development of technology which allows for low cost production of printed electronics and the elimination of specialized electronic readers in favor of smartphones will allow them to enter the mainstream," said Freedonia analyst Katie Wieser. Rapid adoption of tracking-enabled or interactive packaging components will further be driven by recent legislation in the pharmaceutical and food markets which requires producers to take steps to make products safer and easier to recall. Active packaging provides functions beyond product protection and identification, such as moisture control. Active packaging demand is forecast to grow 5.4% pa to US\$2.5 bln in 2019. Demand will be driven by growth in gas scavenger products which are benefiting from the development of more advanced technology and the growing preference for foods with fewer additives. Growth in demand for corrosion control packaging, desiccants, and microwave susceptors will register more moderate gains due to market maturity. However, according to the Freedonia report, healthy gains will still be observed as products are introduced to perform these standard functions more efficiently. For example, new environmentally friendly corrosion control scavengers have been developed, and desiccants are now being embedded in bottles or caps to provide moisture control for pharmaceuticals.



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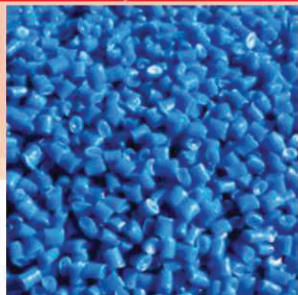


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Natural microspheres from PHA biopolymers for personal care and cosmetic products

Plastic microbeads are tiny spheres of PP or PE added as abrasives to personal care products like face scrubs, shower gels and toothpaste. They not only wash down the drain, but because of their small size, escape sewage treatment plants, getting discharged into the water bodies. These PE/PP/PET microbeads do not biodegrade, especially in aquatic environments. Also, since they resemble fish eggs, they are likely to be ingested by aqua/ marine life. This, along with increasing consumer demand for environmentally friendly personal care ingredients, is leading to development of several marine biodegradable biopolymers. A few are being discussed:

Metabolix Inc. has entered into a global, exclusive commercial and technology alliance with Honeywell to offer new marine-biodegradable biopolymers for use in cosmetics and personal care products. Through the alliance, Metabolix's Mirel polyhydroxyalkanoate (PHA) biopolymers will be developed as part of Honeywell's Asensa line of personal care additives that are used in a variety of end-use applications ranging from lipsticks to moisturizers to pressed powders. Using these biopolymers will help address pending legislation in the United States focused on replacing synthetic, non-biodegradable microbeads, as well as global demand for biobased and biodegradable alternatives. The technology is intended to meet increasing regulatory and other requirements around the world for personal care microbeads that biodegrade in marine and fresh water environments. Using applicable ASTM test methods, the marine biodegradability of these biopolymers has been shown to be similar to that of cellulose and paper, and is faster than other commercially available biodegradable



polymers. Metabolix's product, corn dextrose is the feedstock the company is using for now. PHAs have a similar composition to cellulose or paper, and have the ability to break down exponentially quicker than plastic microbeads. These microbeads can biodegrade 80% within 14 to 18 days in water and in soil. They attract bacteria that see them as a source of food, hastening the biodegrading process. The microbeads are also compostable and do not release toxic substances once they enter a marine environment

Minerv Bio Cosmetics, the 100% bioplastic has been developed to replace the microbeads in cosmetics that pollute the seas and are now prohibited in many countries, these microbeads are made from PHAs and specially designed for the cosmetics sector. A new plant of Bio-on will start production in 2018. The plastic micro particles (known as microbeads) currently used as thickeners or stabilisers in such widely used products as lipstick, lip gloss, mascara, eyeliner, nail polish, creams, shampoo, foam bath and even toothpaste pollute the environment because once they are rinsed off after use, they become a permanent part of the natural cycle: plankton in the rivers and seas swallow these microscopic plastic particles and thus introduce them into the food chain. The level of pollution is so serious that the USA government has decided to bring in a law (Microbead-Free Waters Act of 2015) banning the use of oil-based polymers in body care products. This decision was recently followed by other countries.



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Industry Sustainability initiatives - plastics recycling and recovery, marine debris solutions

The term "sustainability" is widely referred to as meeting the needs of the present without compromising the ability of future generations to meet their own needs. Sustainable Materials Management (SMM) seeks to establish a materials management approach to help us make more informed choices that can reduce the environmental impact of materials. Most multinational companies have taken steps to protect the environment and are taking comprehensive action to reduce environmental impact by introducing innovative changes to conserve energy, reduce carbon footprint, minimize waste and recycle post consumer waste. This encompasses source reduction, light weighting and recycling; and helps improve performance and save on logistical costs. A few cases of plastics recycling and recovery, industry sustainability initiatives and marine debris solutions are being discussed.

Adidas has unveiled a new US\$200 high-performance shoe made from the ocean's plastic waste. On an average, one pair of UltraBoost shoes made of plastic debris reuse 11 plastic bottles and features recycled laces, heel lining and sock liner covers. Reebok has announced plans to produce a compostable shoe made from Susterra, a corn-based plastic substitute. While the top of the sneaker will be cotton, the corn-based sole of the sneaker will replace the traditionally used ethyl vinyl acetate (EVA).

Hewlett Packard (HP) incorporates e-plastics from used ink and toner cartridges back into new cartridges. It also uses other post-consumer plastic sources, including beverage containers. HP used 6,200 metric tons of post-consumer plastic in PCs and displays in 2015, although it didn't indicate whether the recycled content came from recovered e-plastics or other sources. Dell has for years incorporated post-consumer e-plastics in its products. During the 2016 fiscal year, Dell used 3.4 mln lbs of post-consumer e-plastics in its products, up about 55% from the year before. Dell has announced the industry's first packaging trays made with 25% recycled ocean plastic. The packaging is part of a pilot program that supports the company's goal to achieve 100% sustainable packaging by 2020. Apple announced plans to make iPhones and computers from recycled materials. Currently, Apple forces the recyclers it works with to shred iPhones and computers,

turning the materials into tiny shards of metal, plastic and glass instead of repairing or reusing the products.

Most automotive companies are making use of sustainable and recycled materials in automotive interior and exterior parts. Ford announced it is working with Jose Cuervo to explore the use of the tequila producer's agave plant byproduct to develop more sustainable bioplastics in its vehicles. Kenaf, a tropical plant in the cotton family, is used in the door bolsters of Ford Escape. Repreve fabric, made from recycled plastic bottles, diverts more than 5 mln plastic bottles from landfills annually. Recycled plastic bottles are becoming floor carpeting, wheel liners and shields in several vehicles. Soy-based foams are used as seat cushions, seatbacks and head restraints and other interior auto components.

International appliance maker Electrolux reports its usage of recycled plastic increased 20% from 2015 to 2016. So far, its biggest shift has taken place in Europe, while sectors in North America, Latin America and Asia Pacific will contribute more to the future increase. Electrolux has also developed a patented compound based on recycled polypropylene it calls Carborec. The company first began using Carborec in vacuum cleaners before expanding its use to other appliances. The company plans to adapt designs to incorporate recycling materials, look at increasing the percentage of recycled content in already-approved applications and assess new components for the use of recycled plastics.

Procter and Gamble's Head and Shoulders brand will produce a shampoo bottle made from up to 25% beach plastics- from trash removed from beaches, oceans, rivers and other waterways. P&G's black high-density polyethylene (HDPE) is unique because unlike many other ocean plastic packages, other polymers from the beach plastic have been sorted out. The company announced that by the end of 2018, it will have half a billion packages in Europe with at least 25% post-consumer recycled content, among its hair care portfolio, including Head & Shoulders and Pantene. L'Oreal's Matrix in Brazil revamped packaging for its Biologie range.





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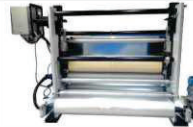
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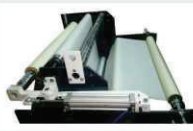
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by:
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Largest share of starch based and cellulose derived solutions in global bio-degradable plastic packaging

Globally shoppers use around 500 billion single-use plastic bags every year and this number continues to rise. However, many countries across the world, have banned the use of lightweight single-use plastic bags or have started taxing it. In addition, consumers are also becoming more concerned towards the environmental impact of plastic packaging solutions. This has compelled business to look beyond the use petroleum-based plastics to alternatives derived from plants, or even synthesized by micro-organisms. Bio-Degradable Packaging market is mainly driven by the growing conscientious population and government regulations focusing on the reduction of wastage and usage of Bio-Degradable packaging materials. However the lack of supply of bioplastics and the higher cost of materials are hindering the growth of this market. Europe is leading the market with 45% share in 2015 followed by North America and Asia Pacific. The starch based and cellulose derived solutions will continue to hold the largest market share.

As per Statistics MRC, the global bio-plastic packaging market is valued at US\$6142 million in 2015 and is expected to reach US\$25368.7 million by 2022, growing at a CAGR of 32.7% from 2015 to 2022. Bio-plastic packaging is a highly intensive market witnessing more than 50% of biodegradable plastics market demand. Global market is anticipated to witness growth owing to increasing customer attentiveness to ecological products. Shifting partiality from artificial chemical products to environmental substitutes is expected to boost the Bio-plastic packaging market growth. Huge complications involved in the production through agro-based raw materials are anticipated to be a challenging factor for market in the near future. Increasing adoption of bio-based PET in packaging due to rising R&D expenditure by beverage manufacturers is probably to exploit new markets over the forecast period. The factors restricting the market growth include high cost of production as bio-plastic is not easily recyclable, lack of commercial conversion technology of agro based material to bio-plastic, and limited use of bio-plastic for the packaging attributed to the premium pricing of the bio-plastic. Europe commanded the global market in 2014 followed by North America and Asia-

Pacific. Several European countries have adopted bio-plastic packaging, driving the regional market. However, Asia Pacific is the fastest growing region in the market and is anticipated to grow at a highest rate over the forecast period. Asia Pacific is commanding the global market in terms of production. With the constant rise in awareness about the environment and pollution and greater emphasis on sustainability, the governments of several Asia Pacific nations are focusing on the recycling of plastic products, which has boosted the growth prospects for the market in this region. The packaging and food services segment is anticipated to become the commanding shareholder in the global market over the forecast period.

According to a report published by Credence Research, the bioplastic packaging market has been estimated to be valued at US\$ 6,765.9 million by the end of 2016, and is expected to reach US\$ 46,490.5 million by 2023, expanding at a CAGR of 31.7% from 2016 to 2023. The requirement for sustainable and affordable packaging for varied range of products across different industry including food and beverage has increased over the past few years. Bioplastic packaging has gained traction all over the world due to adaptation of the products by different manufacturers. The sector of bioplastic packaging is a small segment and is at nascent stage when compared to overall packaging industry of the globe. However, recent advancement and change in techniques has boosted the global biodegradable food packaging market. Increasing consumer awareness related to utilization of biodegradable based products is anticipated to intensify the growth of the bioplastic packaging market till 2023. Increasing significant environmental concerns all over the world due to increase in pollution along with higher consumer preferences for biodegradable material based products is anticipated to foster the growth of bioplastic packaging market over the forecast period. Apart from this, advanced production process and innovation in technology adopted by bioplastic packaging manufacturers is expected to spur the growth of overall bioplastic packaging market during the period 2016-2026.

Continues On Page No.: 46

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FIG. 1 Global Bioplastic Packaging Market, 2013 – 2023, (US\$ Mn)



Bioplastic packaging market is segmented on the basis of product type such as Bio-PET, PLA and PLA Blends, Starch Blends, others. In 2015, Bio-PET segment contributed the highest revenue share of the total bioplastic packaging market. The starch blends packaging is anticipated to expand at a robust CAGR till 2023. The global bioplastic packaging market is further bifurcated by application which includes food & beverages, kitchen utensils, electronics industries, and others. Food and beverages segment marked the highest revenue share in bioplastic packaging market in 2015. Rising awareness towards sustainable and affordable packaging solutions as well as change in mindset of people i.e. preferences for recycled based products instead of synthetic one is anticipated to expand the growth of segment during the forecast period.

As per Future Market Insights, increased consumer preference towards biodegradable materials coupled with the growing environmental concern is expected to boost the overall growth of the biodegradable packaging market. Most of the major packaging companies are now shifting their focus towards biodegradable packaging in order to achieve greater consumer satisfaction, and also to differentiate their products from that of the competitors. This segment is expected to witness the fastest growth than that compared to the plastics packaging market. Though it is a relatively new market, it is expected to capture the existing market share of the non-biodegradable plastic packaging market. The food packaging and beverage packaging market is expected to play a crucial role in driving the overall global biodegradable packaging market. However, lack of government support especially in the developed countries is expected to curb growth of the market. The presence of huge price difference between the biodegradable packaging and other conventional packaging is further expected to hamper the growth of the market.

Europe and North America are expected to dominate the overall market of biodegradable packaging. North America is expected to be the largest consumer of the biodegradable packaging market. The developed regions are expected to dominate the overall biodegradable packaging

market owing to the presence of mature markets that consist of highly environmental conscious consumers. In addition, the presence of high-spending population is also expected to increase the overall demand for biodegradable packaging in the developed regions. The presence of large populations in Asia Pacific is expected to boost the biodegradable packaging market. Owing to the increase in the contract manufacturing process coupled with increased governmental interest to promote biodegradable products by providing incentives in some countries such as China and India is further expected to contribute to the growth of the market. FMI says that the biodegradable packaging market is highly fragmented in nature. Some of the key participants of the biodegradable packaging market include International Paper, Natureworks LLC, Biopac, BASF SE, Stora Enso, Smurfit Kappa Group, Rocktenn, Clearwater Paper Corporation, Georgia-Pacific LLC and Novamont S.P.A among others. The companies mainly strive towards developing new technologies to manufacture biodegradable packaging material from various easily available natural resources. There are also huge investments in the research and development in order to develop innovative product which in turn would help the companies to gain competitive advantage in the market.

The global bioplastics for packaging industry is forecast to grow from 2017-2022 at an annual average rate of 17% to a market value of almost US\$7.2 bln according to research from Smithers Pira. Consumption is projected to reach 1.06 mln tons in 2017, with a market value of US\$3.4 bln. The markets currently represent a very small share of the global plastic packaging market value, but it will grow very strongly - more than doubling in value across the forecast period. The most successful organisations in this fast developing segment will be those that most effectively meet the remaining key challenges facing the commercial adoption of bioplastics in packaging. Firstly this involves identifying those opportunities where a premium can be expected for a naturally sourced product, overcoming biopolymers negative cost competitiveness versus petro-polymers caused by falls in world crude oil prices since mid-2014. Furthermore in

packaging applications where it is technically possible for bioplastics to replace oil-based polymers, suppliers will also have to manage the problems of higher production costs, capital availability, and limited availability of bio-based feedstock over the coming years.

While the potential market for bioplastics is huge, consumption rates will depend on whether producers can grow their production capabilities fast enough and at acceptable cost/performance levels to meet demand. Decades ago, the oil refinery and petrochemical industry successfully implemented the use of added-value business models. These business models generated high levels of profit by integrating the supply chain from the oil well head all the way through chemicals and polymer production. This allowed producers to operate an integrated raw material and polymer complex with very few middle-men and therefore captured profit at each level of the supply chain. It is expected that the biopolymer sector will adopt an added-value business model in a similar way. Unlike oil refineries, a bio-refinery will be capable of processing many different types of biomass, including sugars, cellulose and various plant oils.

In the future, the development of new technologies will ensure the emergence of new types of polymers and improved ways of producing currently available biopolymers for various end-use applications. Future biopolymers will offer improved rates of biorenewability and biodegradability, as this rate is an important factor in achieving market acceptance. In terms of geographical development, Europe is the largest regional market for bioplastic packaging with a 31% share of the global bioplastic packaging consumption. It is now at the forefront of research and development work, but will account for less than 10% of bioplastic production capacity and have a diminishing share of bioplastic packaging consumption by 2022. Most of the currently planned volume production facilities are being implemented in Thailand, India and China, and over 75% of bioplastics will be produced in Asia by 2022. In terms of end-use categories, non-food is the largest area of application for bioplastic packaging in 2017, accounting for almost 46% of global consumption. This reflects significant bioplastics consumption for garbage bags and carry-out bags. Food is the second largest end-use sector, followed by beverage bottles. Bioplastic beverage bottle consumption has grown dramatically since 2012, following the introduction of bio-derived PET for soft drinks bottles, and will account for almost 22% of bioplastics for packaging consumption in 2017.



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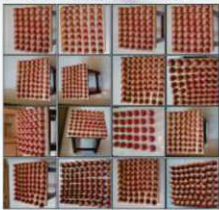


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by:
plastemart.com

Natural fiber composites market set to surge significantly on increasing concerns over recyclability and biodegradability

With the increasing concern due to the recyclability and biodegradability composites such as glass and carbon, natural fiber composites (NFC) serves as perfect replacement. Attributing to added properties such as high durability, low density, lightweight and cost effectiveness, natural fiber composites have gained significant traction. NFCs are reinforced matrices structure formed using natural fibers. Natural fiber such as coir, jute, bagasse, cotton, bamboo, hemp are used to manufacture high strength and stiff composite structures that can be used for various application. The natural fibers can be used to reinforce both thermosetting and thermoplastic matrices, are relatively lighter and have more strength than conventional fibers and therefore find extensive application in automotive industry

looks positive for the forecast years. Although the demand is increasing the market is restrained by the presence of semi synthetic fiber composites. Inherent properties of relatively high moisture absorption and limited chemical reactivity also hinder the growth of NFC market. In terms of demand, the largest market is Europe owing to extensive demand of natural fiber composites automotive application. Key market in Europe include UK and Germany. Followed by Europe, North America and Latin America see high demand from infrastructure and constructions applications. Asia Pacific is anticipated to be the largest market for the forecasted years, with emerging market of India and China contributing significantly in the market dynamics. The escalating demands from regions such as



for interior and exterior application. In the construction industry, NFCs are used in applications such as railings, window frames and door panels, as well as for packaging and electrical industry. Natural fiber composites are manufactured using two methods - injection and compression moulding. However they are predominantly processed by compression moulding technique.

Middle East & Africa are anticipated to influence the market in the coming years due to the increasing demands from construction and electronics industry.

The NFC market is expected to witness a significant growth until start of next decade owing to the rising environmental concern over the production and utilization of non-biodegradable synthetic fibers, as per Persistence Market Research Pvt. Ltd. Stringent regulation regarding non-biodegradable composites in regions such as Europe and North America have opened new opportunities for these materials in these regions. With increasing demand for sustainable NFCs in emerging economies for automotive, constructions and textile industry, the outlook

The global natural fiber composites market is estimated to be worth US\$6.5 bln by 2021, as per MarketsandMarkets, at a CAGR of 11.68%, between 2016 and 2021. This growth is attributed to the high demand for NFCs in the construction and automotive industry, driven by the regulatory norms, and superior performance. Lightweight, high stiffness-to-weight ratio, consumer awareness regarding recyclable, and biodegradable materials, are advantages of the use of NFCs in the composites market.

Compression molding is the most widely used manufacturing process of NFCs. Automotive and construction industries are the key users of compression molded NFCs due to their benefits, such as cost effectiveness, high reproducibility,

Continues On Page No.: 50

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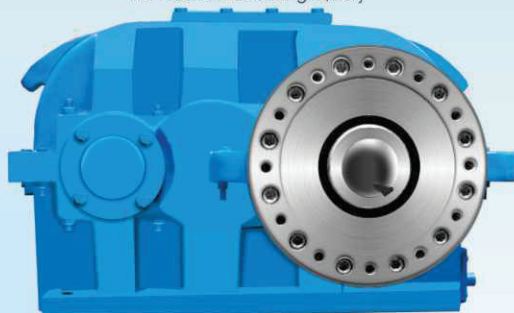
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As per Grand View research, the global Natural Fiber Composites market is estimated to be worth US\$10.89 bln by 2024. Natural fiber composites are eco-friendly materials used to provide durability and strength to the physical structures used in automotive and construction industries. Rising awareness regarding bio-based green building materials and supportive government regulations are likely to propel growth over the forecast period. Furthermore, increasing population has led to growing demand for residential construction as well as public infrastructure, which is expected to augment growth. Technological advancements in manufacturing processes such as compression molding, injection molding, and extrusion are likely to have a positive impact on growth over the next eight years. Natural fibers are substituting

glass and carbon fibers in the recent years due to low costs and improved sustainability. They are available in abundance in Europe and Asia Pacific which in turn is expected to propel demand over the next 8 years. Further key findings from the report suggest:

* Wood fiber composites dominated the global market in 2015, and this trend is likely to continue over the next 8 years. Raw materials including flax, hemp, and kenaf are increasingly used in the production of lightweight and fuel-efficient cars, which in turn is expected to propel demand. In addition, recycled cotton is also being increasingly used for automotive industry thus driving growth.

* Compression molding led the market in terms of technology and is being utilized for the development of luxury car components. This technology helps in the production of lightweight components with improved properties such as deformation resistance and lamination ability.

* Construction industry dominated the global market, in terms of application followed by automotive industry. Natural fiber composites are finding increased applications in industries such as sporting goods and electrical & electronics. Sporting goods accounted for over 2% of the market share in 2015 and is projected to witness significant growth on account of increasing awareness regarding exercise benefits and changing consumer lifestyles.

* North America dominated the market and was valued at about US\$2 bln in 2015. The presence of a vast number of market players in the region is expected to have a positive impact on growth. In Europe, supportive government regulations and presence of a vast number of automotive manufacturers are projected to accelerate the growth.



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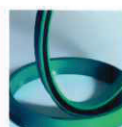
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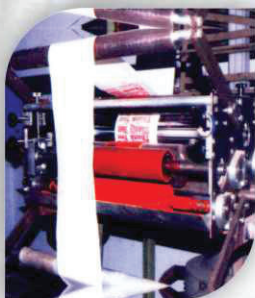


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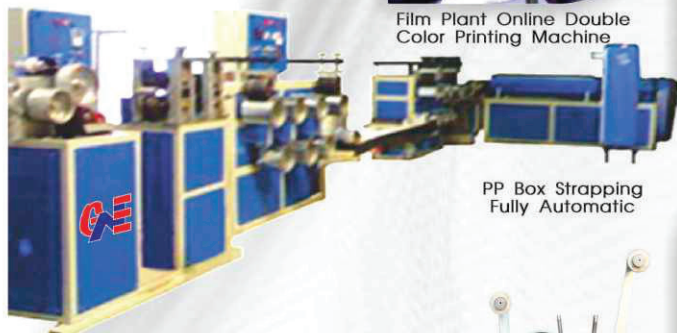
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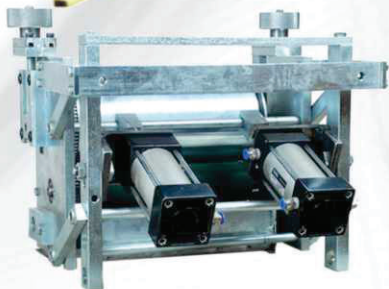
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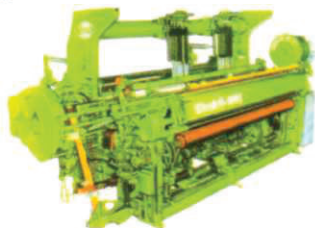
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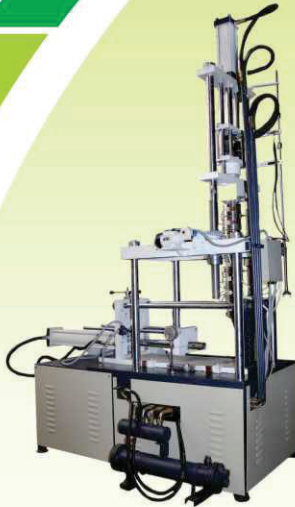


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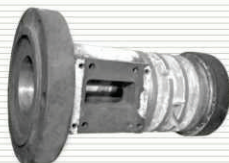
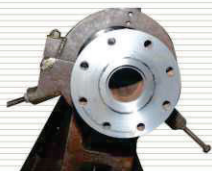


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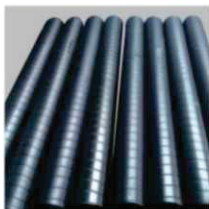
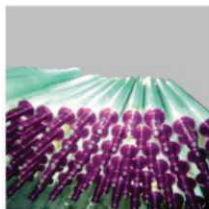
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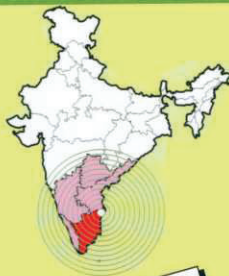
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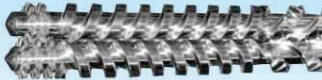
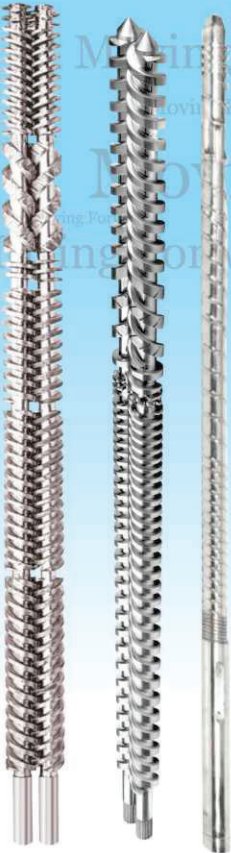
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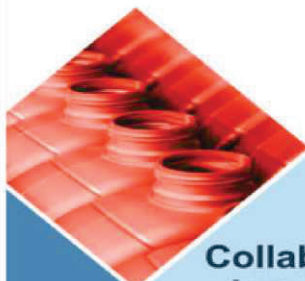


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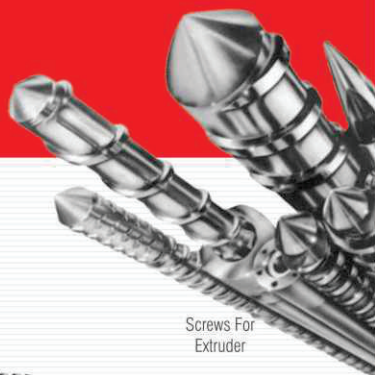
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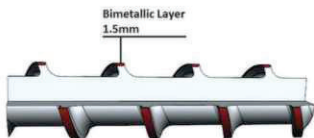


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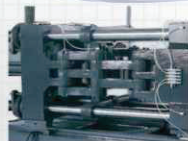
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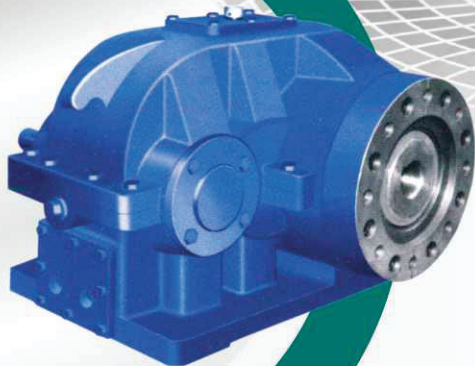
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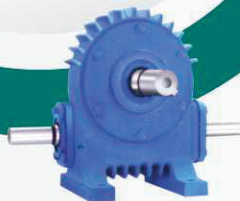


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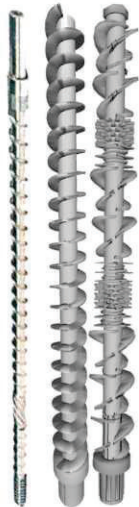
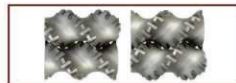
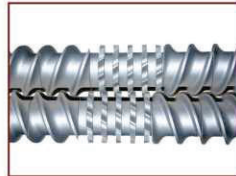
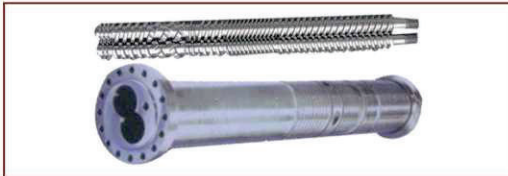
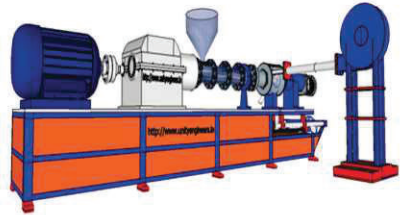


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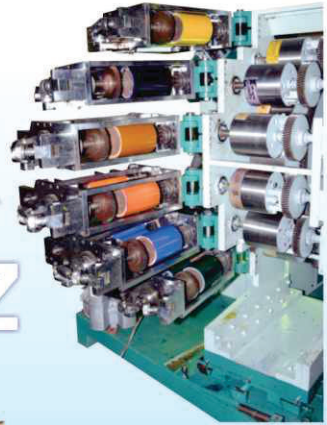
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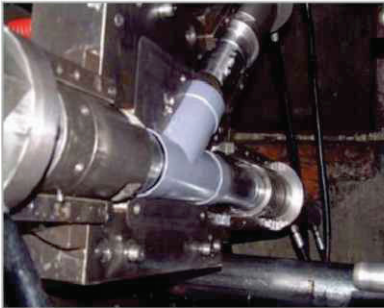




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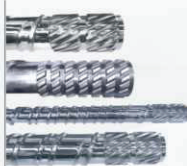
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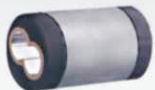
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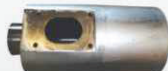
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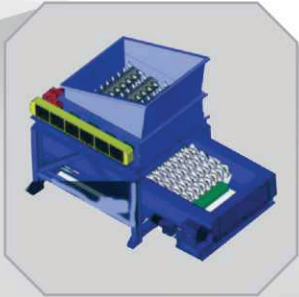
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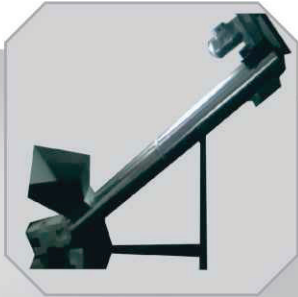
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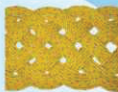
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degradation problems due to continuous
leaker plates • It filters the plastic material
impurities, thereby preventing damage to the
and hence increases the life of the machine

- Quality of the final product remains constant
- Leakage problem gets eliminated due to
- Absolutely eliminates the idle time • Max
of plant becomes possible • Increases the
hence saves money • Easy to operate.

Installation support:

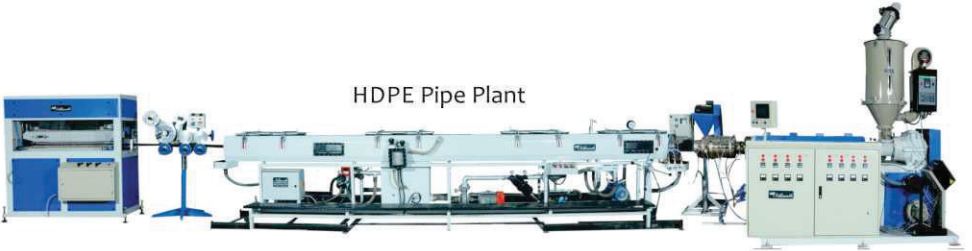
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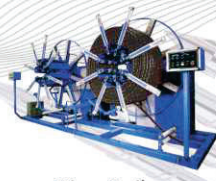
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