



Plastic Tomorrow

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

Editor : Dinesh J Shah, Vadodara, Gujarat, India | Mob.: +91 9327 344 559 | 9426 334 455 | Email : plastic tomorrow@gmail.com | Page : 36



ISO 9001 - 2015 CERTIFIED

- ▶▶ Zero plastic waste production line.
- ▶▶ All products from Pep-Cee Pack Industries are 100% recyclable.
- ▶▶ Recycling through minimum impact.
- ▶▶ In-house recycling facility with capacity of 800MT per annum.

Manufacturer of all kinds of specialized and general purpose LDPE / LLDPE bags, rolls, sheets, wrapping & shrink films.



OFFICE:

C - 604 / 605, HETALARCH, S. V . ROAD, OPP. NATRAJ MARKET, MALAD (W), MUMBAI - 400 064. INDIA

FACTORY:

S.NO.261/2A, DOULATABAD, NEAR JALARAM TEMPLE, BHIMPORE, DAMAN (U.T)- 396 210.

TEL.: +91-22-4297 7444 / 400 , 2888 1944



stretch@pepceepack.com



www.pepceepack.com



facebook.com/pepceepack

Arihant Poly Containers

AN ISO 9001 - 2008 CERTIFIED COMPANY



We are Manufacturer and Supplier of wide range of
HM - HDPE Plastic Containers with multipoint parison control system.

We produce range from 5 Ltr. to 80 Ltrs.

R. S. No. 70/2, 70/3, 70/4, Block No. 54, Nandesari, N. H. 08, Village Fajalpur,

Dist. Vadodara - 391 340, Gujarat, India

Contact: +91 9898 224 469 | 7600 011 234

Email: arihantworldbaroda@rediffmail.com | Web: www.arihantpolycontainers.com

Online Rotogravure Printing Machine



Application:

- ▶ LD HM Liners
- ▶ Carry Bags & Shopping Bags
- ▶ Garbage Bags
- ▶ Compostable Bags
- ▶ PP Liners or Bags

Features:



Oscillating Doctor Blade Movement Facility



Drying Blower Facility



360° Universal Movement Oscillating Doctor Blade



Main Shaft Power Transmission Facility



Air Pneumatic Pressure Rubber Roller



Frequency Drive And Control Panel With CE Std Components Fitted



Technical Specification:

Model Name	Min. Print	Max. Print	Min. Print Repeat	Max. Print Repeat
OLP 16	150 mm	400 mm	250 mm	660 mm
OLP 22	250 mm	550 mm	250 mm	660 mm
OLP 28	250 mm	700 mm	250 mm	660 mm
OLP 32	300 mm	800 mm	250 mm	660 mm
OLP 42	380 mm	1060 mm	380 mm	760 mm
OLP 52	380 mm	1320 mm	380 mm	760 mm
OLP 62	500 mm	1570 mm	500 mm	880 mm



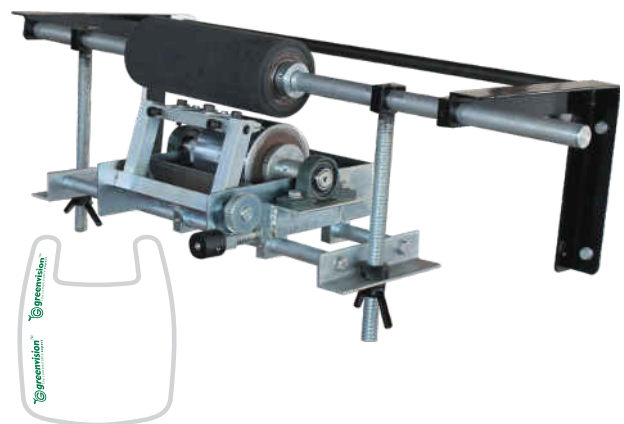
Online Mini Rotogravure Printing Unit

Application:

- ▶ Warning Signs
- ▶ Company Information
- ▶ Film Specification
- ▶ Product's Material Property Details
- ▶ Legal Informations

Features:

- ▶ Rotogravure Cylinder Based Concept
- ▶ Sharp Printing Quality
- ▶ Printing Facility Available On Any Left Or Right Corner Of The Film



MAA SHAKTI CORPORATION
984/G.I.D.C. Makarpura, Vadodara-390010.

☎ +91 99798 40772 / 98249 41117
✉ sales@shaktiroto.com / olp7545@gmail.com
🌐 www.shaktiroto.com



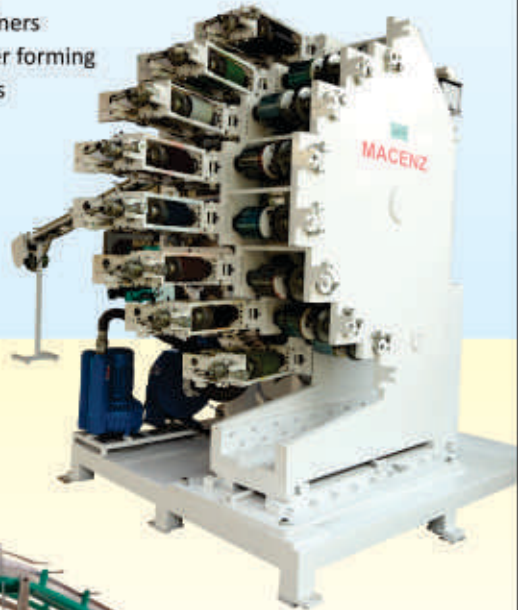
Mr. Bharavi Champaneri
+91 98795 62027, 97129 02027

CHAMpaneri enGineers AND FABRICATORS

Plot No.726, II Phase, New GIDC, Gundlav-396 035,
Dist. Valsad, Gujarat, INDIA.
+91 2632 237220
info@macenz.com, b.macenz@rediffmail.com
macenz.com



Designers & Manufacture of
Dry Offset Printing Machine For
Disposable Glasses/Cups/Containers
Roll on Caps, HDPE Bottles as per forming
or Injection Moulding Containers



MACENZ

We Manufacture of
Two/Four/Six/Eight Color
Dry Offset Printing Machine



The Vision of Asia

7th Plastasia[®] - 2020

19 - 22 June 2020, BIEC, Bangalore, India.

In association with:



19 - 22 June 2020

Bangalore International Exhibition Centre (BIEC), Bangalore

KEY HIGHLIGHTS



40,000
sq.mtrs
EXHIBITION AREA



50,000+
TRADE VISITORS



650+
EXHIBITORS



15+
COUNTRIES PARTICIPATION



KEY PARTICIPANTS



Organiser:
TRIUNE EXHIBITORS PVT. LTD.

+91-98450 89641
info@plastasia.in
www.plastasia.in

Publisher & Chief Editor:

Dinesh j Shah

Marketing Team:

Bharat Vaishnav

Bharat Shah

B V Shah

V K Mehta

Design By:

C J Graphics

Published & Printed By:

D J Publication

Dinesh Shah

303 - Sun silk Apartment,

B/H. Dinesh Mill, Patel Colony,

Nr. Verai Mataji Temple,

Vadodara - 390 007. Gujarat, India

Contact:

+91 9327 344 559 | 9426 334 455

Mail:

plasticudyog@gmail.com

plastictomorrow@gmail.com

Publisher & Printed By:

Dinesh j Shah

We Welcome unsolicited Material but do not take responsibility for the same material shall not be returned unless accompanied by postage latter to the editor are welcome but will be edited.

All right reserved nothing may be printed in whole or part without the permission of the publisher. The editor do their best to verify the information published but do not take responsibility for the accuracy of the information.

CONTENTS

BUSINESS NEWS

COMFORTABLE TO WEAR AND COMPACT IN SIZE -----22
ELIX POLYMERS -----20
FOAM FOR E MOBILITY -----12
HENKEL & COVESTRO TO COMBINE THEIR STRENGTHS TO PROMOTE E-MOBILITY -----12
O Q BUILDS ON INDIAN MARKET FOOTPRINT AT PLASTIVISION-2020 -----14
COMPANY REPORT COSMOS FILMS. -----08.
EXHIBITION DETAIL -----21
NEW PROJECT -----27,28
PLASTIC WASTE CONTROL PROJECT -----24,25,26
TECH TALK -----29 TO 32

SUBSCRIPTION FROM -----14

ADVERTISEMENT INDEX

Arihant Poly Containers -----02
Carmel Engineering -----34
Champaneri Engineers -----04
Dhruv Polychem PVT.Ltd.-----23
Forth Coming Exhibition -----17
India Plastics Show-2020 -----07
Jayant Panchal -----16
Jaydeep Engineering -----18,19
Modi Enterprise -----10
Maa Shakti Corporation -----03
Nickunj Eximp Entp P.LTD.-----BACK TITLE.
Pep-Cee Pack Industries -----TITLE FRONT
Plast Asia-2020 -----05
Plast Focus-2022 -----13
Plastic Udyog -----35
Printpack India -----09
PPH Enterprises -----33
Tirupathi Hydrocarbon P.LTD. -----11
Top Drive -----15

INDIA PLASTICS SHOW 2020

20-21-22 SEPTEMBER
HELIPAD EXHIBITION GROUND
GANDHINAGAR, GUJARAT

 **RETHINK**
 **RESEARCH**
 **RECYCLE**

For Participating :
Email: sales@kdclglobal.com
URL: www.kdclglobal.com

Organized by



COSMO FILMS REPORTS 171 PERCENT INCREASE IN Q3 FY20 PAT



Cosmo Films Limited

In Rs. Crores	Q3 FY20	Q3 FY19
Net Revenue	579.9	557.7
EBITDA	77.3	36.3
PBT	51.9	11.1
PAT	36.1	13.3
EPS (in Rs.)	18.8	7.0

New Delhi, February 13th, 2020: 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 December, 2019.

Q3 FY20 net revenue increased by 4 percent on YOY basis backed by a better product mix and higher volumes. The improved performance is on account of higher sales of speciality films and strong operating margin on BOPP films (due to balanced demand supply scenario). Last year results included Rs. 8 crores of profit on sale of assets in US subsidiary following the relocation of plant.

Commenting on the financial performance of the company Mr. Pankaj Poddar, CEO, Cosmo Films Ltd. said, "We have had one of the best quarterly results with a significant contribution coming from sales of newly developed products. The company's R&D has done successful trials for in house manufacturing of certain masterbatches and coating chemicals as a part of backward integration/maintaining secrecy as well as diversification into new related business. The company shall start production, sales and internal consumption of these masterbatches and chemicals over the next few quarters under a newly wholly owned subsidiary.

These are low capex projects with good margin expansion for the company."

About Cosmo Films Limited

Established in 1981, Cosmo Films Limited, a global leader in films for packaging, labeling & lamination applications and synthetic paper. With engineering of innovative products and sustainability solutions, Cosmo Films over the years has been partnering with worlds' leading F&B, personal care and tobacco brands and 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.



For further information,
www.ami.international

SHREE YAMUNA TRADING CO.

DEALS IN ALL TYPE OF PACKING MATERIAL.

Bopp Tape



Adhesive Tape Single Side / Both Side



Email : shreeyamunatrading@gmail.com



**EARLY BIRD
DISCOUNT**
Last Date
30.04.2020



WHERE THE WORLD
CONVERGES

15th
PRINTPACK INDIA
February 3-8, 2021
India Expo Centre, Greater Noida, NCR Delhi

VISITORS' REGISTRATION



India's Biggest Exhibition on :

PRINTING | PACKAGING & FLEXIBLE PACKAGING | CORRUGATION | LABEL PRINTING | SCREEN & TEXTILE PRINTING |
SIGNAGE & LED | PAPER & NON WOVEN | PRE-PRESS | DIGITAL | POST-PRESS | CONVERTING |
SERVICES & SOFTWARE | CONSUMABLES & SPARES | OTHER |

INDUSTRY PARTNERS:

Corrugations:



Label:



Signage:



Screen Print:



Paper:



SUPPORTED BY:



MEDIA SUPPORT:



ORGANIZER : INDIAN PRINTING PACKAGING & ALLIED MACHINERY MANUFACTURERS' ASSOCIATION

Plot No C-54, Sector-62, Institutional Area, Noida, 201 307 U.P, INDIA | Ph: +91-120-2400109/4292274 Fax: +91-120-4207076
Email: admin@ipama.org; info@ipama.org; marketing@ipama.org | Website: www.ipama.org, www.printpackipama.com

ME MODI ENTERPRISE

House Of Hot Stamping Foil & Screen Printing Material

Since 1986

We have many kinds and design of stamping foil for different purpose and use in manufacturing industries such as Watches, Electrical Switch, House hold items, Gift Items, Automobile, Hair Accessories, Pens, Packaging Solution, Footwear Industries etc..

Also Available Imported Silicone Rubber Sheet and Roll For Quality Stamping



Add: Shop no 2, Nilesh CHS Ltd. Ramchandra Lane, Malad (West) Mumbai-400064(INDIA)

Tell no:022-28899531/28890948

Website : www.modifoils.com

email : modi1959@gmail.com

modifoils@gmail.com

STATEMENT ABOUT OWNERSHIP & OTHER PARTICULAR ABOUT NEWS PAPER PLASTIC TOMORROW TO BE PUBLISHED IN THE FIRST ISSUE OF EVERY YEAR AFTER THE LAST DAY OF FEBRUARY

- 1.Place of publication :- 303/Sun Silk Appartment, B/h. Dinesh Mill, Patel Colony, Vadodara-390007, Gujarat, India.
- 2.Period of its publication :- Bi-Monthly
- 3.Printer Name :- Dinesh Jivanlal Shah
Nationality :- Indian
Address :- 303/Sun Silk Appartment, B/h. Dinesh Mill, Patel Colony, Vadodara-390007, Gujarat India.
- 4.Publisher Name :- Dinesh Jivanlal Shah
Nationality :- Indian
Address :- 303/Sun Silk Appartment, B/h. Dinesh Mill, Patel Colony, Vadodara-390007, Gujarat India.
- 5.Editor's Name :- Dinesh Jivanlal Shah
Nationality :- Indian
Address :- 303/Sun Silk Appartment, B/h. Dinesh Mill, Patel Colony, Vadodara-390007, Gujarat India.
6. Name and address of individuals who the news paper and partners or shareholders holding more than one percent of the total capital.

I Dinesh Jivanlal Shah here by declare that the particular given above are true to the best of my knowledge and belief.

Date :- 28.02.2020

Dinesh Shah
Signature of Publisher

TIRUPATHI HYDROCARBON PVT.LTD.,



Description Of Uses

Shopping bags, Grabage, Carry Bags

PE Industrial F hopping bags for kind of opaque film

Shopping bags, T - Shirt bags, Dut bags

Plastic Trapaulin, Sapling bags



PARAFFIN WAX-2



CALCIUM FILLER



TALC FILLER



PARAFFIN WAX

ī Ĥ Ĵ Ĩ ÈĪ ĞĤĠKĠĪ Î F ÈĪ ĒĪ Í Ĵ ĴĪ B Ī ĠB

20B ELEGENCE ROYALLE, +91 80 - 22221615
16/31, J C ROAD, 2ND CROSS, +91 80 - 22293121
BANGALORE-560002

tirupatichemicalsmall@yahoo.com

tirupathihydrocarbon.com

145/1b and 145/1C,
Samanpally Village,
Sapaddi Road, Shooglagiri

FOAM FOR E-MOBILITY

FOAMPARTNER DELIVERS FOAM KNOW-HOW FOR ACOUSTIC AND THERMAL INSULATION IN RINSPEED'S NEW METROSAP

In their new modular MetroSnap concept car, Swiss mobility think tank Rinspeed is once again relying on innovative foam technology from FoamPartner to ensure highly effective acoustic and thermal insulation.

"One of the key advantages of electric vehicles is



the ability for fast acceleration and low-noise drives. But the latter places higher demands on the insulation of the passenger compartment against rolling and wind noises," says Kay Kosar, Head of Marketing & Sales, Acoustics & Thermal Solutions (A&TS) Europe at FoamPartner. "At the same time, the power consumed by heating and air-conditioning must be minimized to ensure maximum driving ranges. In both disciplines, our advanced foam solutions are in their element." The

design of the MetroSnap builds on the MicroSnap and other concept cars from previous years. The main components of the concept car are a 'Skateboard' chassis and quick-change superstructure or 'Pods' for passenger and cargo transportation. The fully electric, connected and autonomously moving vehicle takes advantage of state-of-the-art technology from distinguished partner companies. Its encompassing concept – including a composite/steel body, 3D printed components, lidar sensors and a drive-by-wire system – also extends to battery leasing, insurance and payment services. The interior design features cutting-edge equipment, such as a digital cockpit and aircraft seats. "For the interior of the MetroSnap, we paid special attention to providing high aesthetics, as well as being able to offer a durable and protective feel-good environment," emphasizes Frank M. Rinderknecht, CEO of Rinspeed AG. "FoamPartner is the perfect address for us to meet these needs. Their specialized expertise in acoustic and thermal insulation, which is already well-proven in the forerunners of MetroSnap, helps us to maximize the autonomous driving experience," he adds. With its business segments Acoustic & Thermal Solutions (A&TS) for acoustic and thermal insulation products and Automotive Rolls (AR) for vehicle interiors, FoamPartner specializes in high-quality low-emission and low-odor polyurethane ester and polyurethane ether foam solutions. Typical automotive interior applications include headliners



and door panels, as well as large insulation and damping components, such as the dash inner encapsulation unit. The application engineers at the company's Techcenter have extensive expertise in the field of automotive acoustics and in the development of lightweighting PUR foam systems. "Our long-standing partnership with Rinspeed underscores our leading role as a customer-focused niche player in tailor-made foam solutions. To meet the rising demand, we will shortly commission a new Conversion Center at our Duderstadt site in Germany, which will significantly expand our supply capacities," adds Dr. Michael Riedel, CEO at FoamPartner.

Reader enquiries
FoamPartner
www.foampartner.com

Courtesy



HENKEL AND COVESTRO TO COMBINE THEIR STRENGTHS TO PROMOTE E-MOBILITY ADHESIVE SOLUTIONS FOR EFFICIENT LI-ION CELL ASSEMBLY

As automotive electrification continues to evolve, powerful lithium-ion (li-ion) battery architectures are at the center of discussions around electric vehicles. While battery system designs vary by manufacturer, the joint performance objectives for all automotive battery technologies are longer lifetime, operational safety, cost efficiency and reliability. In their most recent collaboration, Henkel and Covestro developed a solution enabling the efficient fixation of cylindrical li-ion battery cells inside a plastic cell holder. The solution is based on a UV-curing adhesive from Henkel and a UV-transparent polycarbonate blend from Covestro. With a strong consumer push to reduce electric vehicle prices, large-scale and cost-efficient li-ion battery cell assembly is a prerequisite for every automotive OEM. As such, Henkel's Loctite AA 3963 battery

assembly adhesives and Covestro's UV transparent polycarbonate blend Bayblend® were developed for compatibility with high-volume automated dispensing techniques and offer flexible and fast cure mechanisms. The acrylic adhesive was formulated for use with the cell holder, which is constructed of a special flame-retardant plastic. It provides strong adhesion to the substrate material and offers production adaptability through long open times and short cure cycles. Efficient and flexible production "High-volume manufacturing operations with short cycle times and process flexibility are essential," explains Frank Kerstan, Head of e-Mobility Europe at Henkel. "The Loctite OEM-approved adhesive designed to secure cylindrical li-ion cells into a carrier is a one-part, cure-on-demand formulation. After high-speed dispensing, the material's long open time inherently builds adaptability into the process by allowing for any unexpected production interruption. Once all cells are placed into the adhesive and secured in the holder, curing is activated with ultra-violet (UV) light and takes place in less than five seconds." This is a major advantage over conventional manufacturing where curing times can range from several minutes to hours, thus requiring additional storage capacity for parts. The cell holders are manufactured from Covestro's PC+ABS blend Bayblend® FR3040 EV. With a thickness of only one millimeter, the plastic already meets category V-0 of the Underwriters Laboratories' UL94 flammability rating but shows good permeability for UV radiation in the wavelength range above 380 nanometers. "The



material allows us to construct dimensionally stable parts that are necessary for automated mass assembly," says Steven Daelemans, Market Development Manager E-Mobility in the Polycarbonates segment at Covestro. "Together with the fast-curing capability of the Loctite adhesives, this material combination delivers an innovative approach to large-scale cylindrical li-ion battery module production." Watch this video on how Covestro's and Henkel's solutions enable the efficient assembly of Li-ion cells in electric vehicles. Loctite is a registered trademark of Henkel and/or its affiliates in Germany and elsewhere.

Reader enquiries
Henkel AG & Co. KGaA

www.henkel.com

Courtesy

PLASTFOCUS

5 - 9 MARCH 2022

India Expo Centre, Greater Noida, Delhi NCR

FORMERLY INDIAPLAST

Powered by

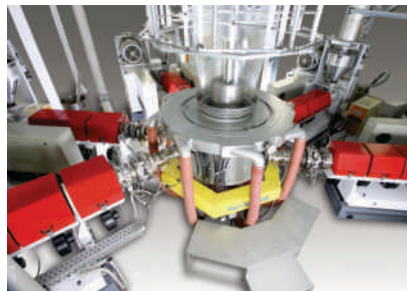


Organized by



EXPECT TO MEET THE
RIGHT BLEND OF
PLASTIC
RAW MATERIAL,
MACHINERY AND
PRODUCTS
MANUFACTURERS

EXHIBIT, VISIT, BELIEVE IT.



PLASTFOCUS, formerly INDIAPLAST,
brings together exhibitors, influencers and decision-makers from various fields of
plastics manufacturing, only to tap its unexplored possibilities.

KEY HIGHLIGHTS

1260+
EXHIBITORS

90,000 sq.mtr.
EXHIBITION AREA

1,80,000+
VISITORS

27+ PARTICIPATING
COUNTRIES

M: +91 98450 89641 | info@plastfocus.org | www.plastfocus.org

OQ BUILDS ON INDIAN MARKET FOOTPRINT AT PLASTIVISION - 2020

OQ, the new brand regrouping of Oman Oil and Orpic Group's nine business units, will offer its growing range of products, as well as showcase its specialty geotextile solutions at Plastivision 2020 in Mumbai this January (Hall 4, C3-1).

For over a decade, OQ has had a presence in the Indian market, providing agile solutions for innovating partners striving to sustainably increase performance. One of these achievements has been improving infrastructure as a reliable polymer partner, through OQ's PP solutions for geomembranes.

In both India and Bangladesh, tests have been conducted with sandbags and the innovative geomembranes in an effort to prevent erosion and increase the lifespan of roads. The use of geotextiles and geomembranes are part of the solution to improve road conditions and safety, especially during times of heavy flooding.

"Our clients and stakeholders can count on OQ to be a solid partner, collaborating on customized solutions along their value chain, to help them meet evolving market needs shaping our industry. We have been supplying the market in durable geo-textile grades since 2006 and helping to sustain infrastructures and improve people's lives along the way," says Talal Al Awfi, Chief Commercial Officer, OQ. In addition to roads, geotextiles are ideal



materials for many infrastructures works, such as harbors, landfills, drainage structures, parking lots, airport runways and other civil projects. They're a synthetic permeable textile material used to improve the soil characteristics.

OQ's recently introduced Luban fiber HP5101LC is a homo-polymer grade that has been specifically developed for the extrusion of staple fibers and high tenacity fibers for applications like geo-textiles. Another new woven grade for geo-membrane that OQ will feature at Plastivision is HP1102LC. These solutions are a controlled Rheology grades that have narrow molecular weight distribution. As a result, the products yield a high-tenacity product that is durable enough to withstand infrastructural and heavy-duty applications. They also provide smooth and easy processability by achieving high elongations

values which in return reflect in better mechanical properties.

Already available in 60 countries, OQ aims for its Luban brand of polymers to continue being the differentiator shaping the megatrends impacting the PP and PE industry.

"Our team helps make more possible by going beyond standard grades and working closely with local additive researchers, machine suppliers and industry professionals globally to ensure quality consistency and on-going sales support," says Gilles Rochas, GM Performance Chemicals.

In addition to its Luban grades, OQ will be showcasing its wide range of BOPP films and other solutions including Oxo products, such as inks and plasticizers for the packaging and agricultural industries, respectively. This is made possible because OXEA is one of OQ's nine core assets.

During Plastivision, OQ looks to forward to the opportunity to introduce the company's new branding while establishing new relationships in growing regional market. Visit OQ's booth at Hall 4, C3-1.

Reader enquiries
OQ
www.oq.com

Courtesy



Plastic Tomorrow

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

SUBSCRIPTION FROM

Subscribe to the

Yes ! Booking my subscription to Plastic Tomorrow (₹ 100/- Cover Price)

ONE YEAR SUBSCRIPTION Just Rs. 500/-, Cover Price Rs. 100/-

NAME : _____

ADDRESS : _____

CITY: _____ PIN : _____ STATE : _____

PHONE : _____ MOBILE : _____

WEB : _____

EMAIL : _____

CHEQUE NO. : _____ DATE : _____ DRAWN ON _____

DJ'S
PUBLICATION

303- Sunilk Apartment, B/h. Dinesh Mill, Nr. Verai Mataji Temple, Patel Colony, Vadodara - 390007, Gujarat, India.
(M)+91-9327344559 / +91-9426334455 Web : www.plastic tomorrow@gmail.com, Email : plasticudyog@gmail.com

Welcome...
for business opportunity

TOP DRIVE

BI-MONTHLY AUTOMOBILE NEWS MAGAZINE

Auto Industry News
Auto History
Finance
Product Guide
Auto Shop
Transport Data
Traveler Data
Road Distance Chart
National Highways

Contact : +91- 9426334455 | 9327344559

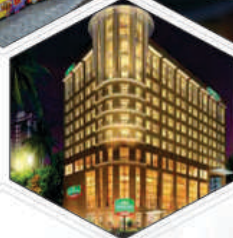
Mail: brdtopdrive@gmail.com | Web: www.topdrive.co.in



 Marketing Consultant

DIGITAL MARKETING

Products Marketed by Advertisement of
Industrial Machinery
Plant & Equipment
Industrial Electronics
Pharmaceuticals
Chemicals & Food
Machine Tools
Textiles Machinery
Paper Mills
Packing & Printing
Plastic & Rubber
Industrial & Domestic Pumps
Air Compressors
Hospital & Hot



Jayant Panchal

094276 31736

jayantpanchal75@yahoo.com
jayantpanchal75@gmail.com





Plastic Tomorrow

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



Forth Coming Exhibition

An Evolved Plastic Industries.

Are You a Plastic Product MFG.

Are You a Plastic Machinery MFG.



Good Reasons to be part of this Special Issue **DHAMAKA**

- Additional Circulation
- Branding Across India Opportunity
- World wide promotion www.plasticudyog.com
- Assured Return on Investment



Now Book Your Advertise for Better Position.



Email: plasticudyog@gmail.com | plastic tomorrow@gmail.com
Contacts: +91 9327 344 559 | +91 9426 334 455 | Whatsapp: +91 9998 687 659
URL: www.plasticudyog.com | www.plastic tomorrow.com

"Way of connecting recycle"



PET BOTTLE GRINDER



WOVEN BAG
ROAD WASTE
RAFFIA GRINDER



WOVEN SACK
FABRIC PLANT
WASTE RAFFIA
GRINDER



SINCE 1987

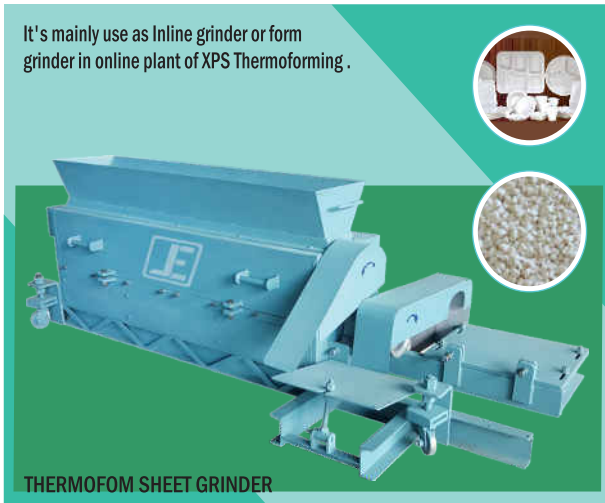


Manufacturer of : All Types of Plastic Scrap Grinder Machines & Agglomerator Machines

402/9, GIDC-2, Dolatpara, JUNAGADH-362 037. Gujarat, India
Contact Person :
Mr. Jayantibhai : +91-285-2660047 / Mr. Hiren Gajjar : +91-9825779447
Mr. Milanbhai : +91-9726375797
Email : jaydeep@scrapgrinders.com

Website : www.scrapgrinders.com

"Way of connecting recycle"



SINCE 1987



Manufacturer of : All Types of Plastic Scrap Grinder Machines & Agglomerator Machines

402/9, GIDC-2, Dolatpara, JUNAGADH-362 037. Gujarat, India
 Contact Person : Mr. Jayantibhai : Tel. +91-285-2660047 / Mr. Hiren Gajjar : +91-9825779447
 Mr. Milanbhai : +91-9726375797 Email : jaydeep@scrapgrinders.com

Price Is What You Pay Value Is What You Get.

Group Of Companies

- Jaydeep Engineering
- Jaydeep Machinery
- Jaydeep Enterprise
- Jaydeep Technology
- Jaydeep Technomech

Website : www.scrapgrinders.com

ELIX POLYMERS PROVIDES LEADING QUALITY ASSURANCE AND TECHNICAL VALUE SERVICES FOR PRE-COLOURED ABS USED IN HEALTHCARE APPLICATIONS

ELIX Polymers, a leading specialist in high-performance ABS materials, will demonstrate its commitment in the healthcare sector at Pharmapack 2020, the European pharma packaging industry exhibition taking place on February 5 and 6 at Paris Expo, Porte de Versailles. The company, which is enhancing the visibility of its quality assurance and key technical services associated with medical-grade pre-coloured ABS compounds, has its own stand, K60, in Hall 7.2. It will show its product portfolio, demonstrate new innovations, and discuss its service offering.

Quality assurance lies at the heart of the ELIX value proposal. In the case of medical grades of the company's ABS, it covers all pre-coloured formulations, including the colour recipes. Colour stability is achieved through a purpose-developed material selection and homologation process, testing on all incoming raw materials, intermediate control during manufacturing, and extended testing procedures on final compounds. Processors can take one of two approaches when it comes to choosing a medical grade of ABS: they can take a pre-coloured product, or they can take an ABS in its natural colour and blend it themselves during moulding, using a colour masterbatch. To reduce their exposure to risk in regulatory compliance, several medical OEMs prefer ELIX pre-coloured medical ABS. This is because ELIX guarantees the biocompatibility of the complete material formulation, including the additives and the complete colour recipe.

Even though the concentrations of a certain substance in a natural ABS and in a colour masterbatch may separately comply with relevant legislation, the maximum concentration limits may be exceeded in the resulting coloured ABS when blending the natural ABS with the masterbatch to achieve the target colour. In addition, use of masterbatch can increase the risk of non-compliance because there may be interaction among components – something that is not always easy to predict. These risks are minimised with pre-coloured ABS, as the compliance is verified and certified on the final coloured material formulation. ELIX tests the biocompatibility of its coloured grades of medical ABS in accordance with ISO 10993-1 and USP class VI. Reduction of complexity is a natural consequence of having just one partner providing multiple aspects of value. Since ELIX can supply medical-grade ABS in the target



colour, medical OEM customers don't need to involve and manage different parties; they do not have to obtain separate declarations from each different supplier, or evaluate the risks of potential interaction between substances provided by different suppliers. They can get all the relevant certifications, covering the complete material formulation, in one step, from a single source. This also results in a higher warranty for medical OEMs.

Batch production implemented at ELIX makes product traceability much easier than with production in big run sizes typical of the mass polymerization process. Batch production makes it possible to conduct specific tests on individual batches, in accordance with customers' specific requests. Moreover, batch sizes can be more easily adapted to customer needs and resulting lead times are shorter than average industry lead times.

ELIX key technical services

Many medical OEMs prefer ELIX pre-coloured ABS solutions because of the positive impact of ELIX technical services on their businesses. These services comprise the colour development service, product stewardship, special testing, formulation and sample storage, mould simulation service and injection moulding guidelines.

ELIX medical ABS is available in numerous colours; customers have access to a database of more than 120 matched colours. But the company's Colour Development service offers even more: new colours can be developed on request by a highly experienced team specialized in the selection of FDA and EU-FC approved pigments and additives. The list of admitted ingredients is provided by the ELIX Product Stewardship department, which adds value by constant surveillance of admitted substances and concentrations and by guaranteeing that optimized formulations stay within legal limits.

The continuously changing medical regulatory framework presents an important risk for

medical OEMs. This risk is considerably reduced by the ELIX Product Stewardship service, with a significant positive impact on an OEM's business.

The recent changes to ISO 10993 (Biological evaluation of medical devices), and in particular to Part 18 (Chemical characterization of materials), put great emphasis on chemical characterization of materials. ELIX Polymers provides support to medical OEMs through its Special Testing service, which provides internal and external tests beyond what is included on the TDS, to characterize ELIX material. Test methods include infra-red spectroscopy, gas chromatography and other techniques. New types of tests are also available on demand.

ELIX technical service comprises a no-change agreement and sample storage for medical ABS grades. In connection with a long-term supply agreement, three years no-change product formulation (including colour recipe) is assured and three years sample storage is provided.

ELIX also offers key Technical Services in the field of material processing. For a robust injection moulding process, mould simulation and mould design support are very useful in predicting material processing behaviour. ELIX offers a Mould Simulation service, which consists of Moldflow and Moldex3D software files that include ELIX medical ABS material data properties. These files can be used in software simulations to predict an optimized injection process, reducing scrap rates and increasing quality in parts. Injection moulding guidelines are also a valuable support to injection moulders – both during the design phase for selecting the right equipment, tools and processing parameters, as well as in the production phase to identify common defects and their root causes, and in solving such issues.

ELIX quality assurance and technical service represents a key value proposal to Medical OEMs and their supply chain. It is complemented by ELIX commercial services, which are offered through the ELIX customer service and sales team.

Reader enquiries
ELIX Polymers

www.elix-polymers.com

Courtesy

EXHIBITION DETAIL

EXHIBITION	COUNTRY	DATE
COMPLAST	JOHANNESBURG (S.AFRICA)	3-5 MARCH 2020
PLASTIVISION ARABIA-2020	EXPO CENTRE-SHARAJ-UAE.	16-19 MARCH 2020
CHINAPLAST	SHANGHAI- CHINA	21-24 APRIL 2020
COMPLAST	ADDIS ABABA- ETHIOPIA	19-21 JUNE 2020
MITEC	KUALA LUMPUR (MALASIYA)	16 TO 19 JULY-2020
PLAST ASIA-2020	BIEC-BANGALORE	19-22 JUNE 2020
COMPLAST	YANGON- MYANMAR	2-4 JULY 2020
COMPLAST	NAIROBI- KENYA	14-16 JULY 2020
COMPLAST	COLOMBO - SRILANKA	20-22 AUG 2020
INDIA PLASTICS SHOW-2020	GANDHINAGAR	20-22 SEPT 2020
COMPLAST	LAGOS - NIGERIA	1-3 DEC 2020
PLAST SHOW	AHMEDABAD	17-20 DEC 2020
IPAMA	GREATER NOIDA	3-8 FEB 2021
PLAST INDIA-2021	PRAGATI MAIDAN-NEW DELHI	4-9 FEB 2021
PLAST FOCUS	GREATER NOIDA	5-9 MARCH 2022

COMFORTABLE TO WEAR AND COMPACT IN SIZE KRAIBURG TPE IS SUPPLYING A SKIN-FRIENDLY THERMOPLASTIC ELASTOMER FOR AN INNOVATIVE PROTOS® HEADSET

The Austria-based company Pfanner Schutzbekleidung GmbH is having the headband for its Protos® Headset Integral manufactured by injection molding of a thermoplastic elastomer (TPE) from KRAIBURG TPE. The material provides excellent processability and ensures high wearing comfort.

From forestry and agriculture, to industry and road construction, through to hunting and air rescue services – occupational health and safety involves more than just functional reliability. For people to actually wear the appropriate or obligatory personal protective equipment they need, it has to have a comfortable, lightweight and practical design. And the same also applies to hearing-protection headsets, which need to be designed so as not to cause pressure marks and skin irritations or tug on the wearer's hair.

A high-performance compound from KRAIBURG TPE's VS/AD/HM THERMOLAST® K series was therefore selected for the headband of the Protos® Headset Integral, developed by Westcam (Mils, Austria) and distributed by Pfanner Schutzbekleidung GmbH (Koblach, Austria). In addition to its velvety surface (VS), outstanding adhesion (AD) and high mechanical (HM) properties, this high-tech material also offers a wide range of design freedom and allows cost-effective processing. "The main challenge was to mold the relatively large headband for the headset in a dimensionally accurate way and with high repeatability in the shortest possible cycle times, while ensuring a clean, homogeneous impression without sink marks," emphasizes Reto Huber, managing director of Huber Kunststoff AG. "The excellent flowability of the KRAIBURG TPE material perfectly matches these requirements and provides flawless surfaces directly from the mold."

A steel spring wire that is incorporated into the headband ensures the required tension and serves to mount the clips on each side that

accommodate the frames for the hearing protectors. The clips are made of an acrylonitrile-butadiene-styrene copolymer (ABS) with a thermoplastic elastomer (TPE) injection-molded on the inside for reliable insulation of the head from the steel wire. The TPE's velvety and soft feel makes the headband and clips extremely pleasant, pressure-free and comfortable to wear.

The selected THERMOLAST® K compound combines a hardness of 60 Shore A with high tensile strength, tear strength and breaking strength. The wear-resistant surface also has long-term resistance to sebum, creams and common household detergents. In addition, the TPE meets the requirements of ISO 10993-10 for irritation-free tolerability of



materials for applications that are in contact with skin. "We already had very good experience with a thermoplastic elastomer from KRAIBURG TPE that was used for the visor of the Protos® Integral Safety Helmet," adds Martin Greber, head of development at Westcam. "The TPE in that device serves as a cushioning and sealing lip on the inside of the visor. It's combined with the edge of the visor, which is made of polyamide, using multicomponent injection molding. The adhesive strength of this hard/soft application has already been tried and tested many times in practical use, and that was why THERMOLAST® K was also shortlisted for



the wire/TPE and ABS/TPE combinations in the headset from the start."

The Protos® Headset Integral was specifically developed for capsule ear protection, with the advantages of a modular structure and compact size – with minimal protrusion when worn and a small packing size when folded. The hearing-protection cups are mounted in their own frames, which are fixed to the clips on each side of the headband and are also designed to accommodate the temple arms of the optional Protos® Protective Glasses, so that no sound bridges of any sort are created overall. Additional accessories include a Bluetooth communications solution with a USB charging bar, the technology for which is fully integrated into the hearing protectors. All of the materials in the headset have been tailored to suit its function and design perfectly. The VS/AD/HM THERMOLAST® K compounds can be precisely colored and have excellent color and UV stability, even in the gray color of the Protos® headband. The materials are produced in accordance with identical quality standards at all KRAIBURG TPE sites and are available in the manufacturer's portfolio worldwide.

Reader enquiries
KRAIBURG TPE GmbH & Co. KG

www.kraiburg-tpe.com

Courtesy



Plastic Tomorrow

Free online Registration for your Business promotion

www.plasticudyog.com

M : +91 9327344559, 9426334455



THE TRUSTED BRAND FOR

- Fillers -
- Chemical -
- Pigments -
- Polymers -
- Elastomers -
- Pu System -
- TPU/PVC -
- TPR.TPE -
- TPV.TPU -
- Talc -
- China Clay -
- SSBR/NBR -
- EPDM/EPR -
- Blowing Agent -
- ADCL Foaming Agent -
- Precipitated Calcium -
- Activated Calcium -
- Carbonate

Is Marketing Partner

Dongsung
CORP.



For

DCP 99%



R.S. TRADING COMPANY

212, Allied House, Inderlok,
Delhi-110035

E-mail: rstradingcompany1@gmail.com



DPOBLEND[®]

SPECIALITY POLYBLEND COMPOUND

DHRUV POLYCHEM PVT.LTD.

WZ-2,1st Floor,
Hari Singh Park, New Multan Nagar,
New Delhi-110056

E-mail: sales@dhruvpolychem.com

Phone No: 25291427 / 25291397

WWW.DHRUVPOLYCHEM.COM

Mobile No: 09971960004

PLASTIC WASTE CONTROL PROJECT

ISLAMPUR MUNICIPAL CORPORATION PWCP ON GARBAGE DEPOT

Plastics have become a big problem today. In India alone, 25,490 tons of plastic is prepared every day. Significantly, according to the report of the Central Pollution Control Board, 40% of plastic waste in the country of 25,490 tons, i.e. 10,340 tons of garbage was not raised. Plastics of 15,342 tons of large 60 cities are prepared every day, out of which 9,205 tons of plastic is reused, the remaining 6,137 tons of plastic as it form i.e. un-allotted. There is a serious plastic problem. On that problem, . Inventor Sachin Deshmukh (Sangli) has revised the invention as a Waste Plastic Product Machine. This efficient measure is for this reason any kind of plastic assembled at the garbage depot can be processed directly into the machine such as plastic bricks, paver block, tree guards, mile stones etc.

If the plastic waste control project of Inventor Sachin Deshmukh becomes a part of the campaign like Swachh Bharat Abhiyan, Rural Development campaign etc, and the plastic which gets Garbage gets ten rupees per Kg rate, then above 5,000 Cr. rupees jobs can be prepared for poor people. To prove all this, Inventor Sachin Deshmukh created the roll model of his modification Islampur Municipality. "Plastic Waste Control Project (PWCP)" using "Waste Plastic Product Machine" Technology and the Concept to "Control Plastic pollution Problem of India" is Inventor Sachin Deshmukh's dream. . He have patented this technology. Islampur Municipal corporation under process approx. 1.2 tons waste plastic and to make 800 bricks. This bricks to crate plastic wall in Indian Army. This is first plastic wall all over world which created form waste plastic to created plastic bricks. This plastic to in feature can be make bunkers or post also living accommodation in zero degree area in J&K. This waste plastic to created wall work as a Insulation wall and cut the environmental temperature between inner and outer side. Remember here this is not a confidential information. Also peoples can be use this formula for the purpose of leaving accommodation and save form cold temperature. here two benefits gives a plastic bricks a) block a waste plastic in useable form and b) block a cold temperature.



FIRST PLASTIC WALL IN THE WORLD CONSTR IN INDIAN ARMY

We wants to be take responsible about the clean India campaign, it will be easy if Inventor Sachin Deshmukh will do 1) Model of the plastic waste control project of Islampur will be roll model and Islampur area inside Waste plastic will be given ten rupees of plastic rate. (This Inventor Sachin Deshmukh can also be done in any city, if your city population is less than 1,00,000) Plastic money gets from the waste, so people will not throw out plastic. The plowed plastic will be collected by the poor people, because they get ten rupees per kg. 2) A Ghantagadi (Garbage collector vehicle) will be kept for plugging plastic. After depositing plastic in that garbage, the person will be given money (Rs 10 per kg) in the form of token as per plastic weight. (These is zero value plastic waste and every day a person can collect only five kilos.) when person this token deposited in Islampur municipal corporation, the token according money is gives to a person. 3) This bricks use for the purpose of making road divider, paver block, footpath in Municipal garden, security wall, living accommodation in Indian Army etc. . 4) If garbage among plastic is out, then the other waste (biodegradable) use as a fertilizer and it will be sold for four rupees per kg.

After this role model is created, it will be called to copy to all the municipalities of the country. In this, we will have to understand the importance of the cleanliness of the people and 70% of the country will become clean definitely.

GLOBAL AND NATIONAL CONFERENCES/ VIP DEMONSTRATIONS / SEMINARS / EXHIBITIONS/ WHERE INVENTIONS WAS DEMONSTRATED

EVENT	DIGNITARIES	PHOTO
WASTE MANAGEMENT CONFERENCE 2019	PADMASHRI DR RAJGOPALAN VASUDEVAN (PLASTIC MAN)	
MEETING WITH MINISTER, GAJENDRA SINGH SHEKHAWAT	MR. GAJENDRA SHING SHEKHAWAT MINISTER, DRINKING WATER AND SANITATION	
INTERACTION ON WPPM	TRANSPORT MINISTER SHRI NITIN GADKARI	
DISCUSSION ON WPPM	MINISTER SHRI GIRIRAJ SINGH	
DEMONSTRATION OF WPPM ON INDUSTRY DAY	PROF. DR. BHADH RAJ MEHTA , DEAN R & D	

<p>INTERNATIONAL PLASTIC EXHIBITION</p>	<p>MR. SADANANDA GOUDA (MINISTER, CHEMICAL AND FERTILIZER)</p>	
<p>DEMONSTRATION OF WPPM</p>	<p>ENVIRONMENT MINISTER OF MAHARASHTRA SHRI RAMDAS KADAM</p>	
<p>INVENTOR SACHIN DESHMUKH IN MAHARASHTRA STATE LEVEL NEWS</p>	<p>SHRI RAVINDRA KHEBUDKAR, COMMISSIONER SANGLI MUNICIPAL CORPORATION</p>	
<p>DEMONSTRATION AT INDIA PLAST 2019</p>	<p>MR. SUBBA BANGERA DIRECTOR, PMMAI</p>	
<p>WASTE MANAGEMENT CONFERENCE 2019</p>	<p>PADMASHRI SHRI KARTIKEYA SARABHAI</p>	

NEW PROJECT



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.

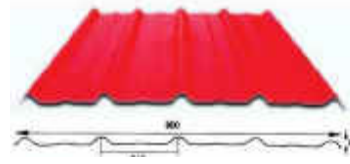
અનેક મટીરીયલ ની જગ્યા પ્લાસ્ટિકે લઈ લીધી છે. પ્લાસ્ટિકને લોખંડની જેમ કાટ લાગતો નથી. લાકડાની જેમ કહોવાતું નથી. વજનમાં હલકું છે અને સસ્તું પણ છે. એના ઉત્પાદન માટે ઓછી ઉર્જા લાગે છે. આસાનીથી રી-સાયકલ થાય છે. નાના માં નાના માણસો પણ પ્લાસ્ટિકના ધંધામાં પડી શકે. સબસીડી-અનેક જાતની ચાલાકીઓ વાપરીને લોકો સરકારને મુરખ 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 ૯૦ 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.

NEW PROJECT



પ્લાસ્ટિકનાં ઈમીટેશન માર્બલ પ્રોફાઈલ :- મશીનરીમાં રોકાણ આશરે રૂપિયા ૭૦ લાખ.



પ્લાસ્ટિકનાં ઈમીટેશન બોર્ડ :- મશીનરીમાં રોકાણ આશરે રૂપિયા ૧.૫૫ કરોડ.



પ્લાસ્ટિકની બી ઓ પી પી ટેપ બનાવો :- મશીનરી માં રોકાણ રૂપિયા ૨૦ લાખથી શરુ.



પ્લાસ્ટિકનાં પ્લાયવુડ જેવા બોર્ડ, મરીન પ્લાય જેવાં બોર્ડ મશીનરીમાં રોકાણ આશરે રૂપિયા એક કરોટ સાઈઠ લાખથી આગળ.



પ્લાસ્ટિકનાં - (વુડ+પ્લાસ્ટિક) દરવાજાં અને બોર્ડ (ઉપર પ્રમાણેનાં) અને ફ્રેમ મશીનરીમાં રોકાણ આશરે રૂપિયા સવા ચાર કરોડ.

વુડ + પ્લાસ્ટિક નાં પ્રોફાઈલ્સ જેમાંથી અનેકાનેક વસ્તુઓ બની શકે.



મશીનરીના એકજ સેટ અપ અને થોડાઘણાં મોલ્ડ વસાવીને રૂપિયા આશરે પોણા બે કરોડ સુધીમાં આ ઇંધો ચાલુ થઈ શકે હજુ અંત નથી. બીજી ઘણી તકો પ્લાસ્ટિક આપે છે.

કમલ શાહ
અમદાવાદ

mail@positiveaggression.in
positive@positiveaggression.in



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

Contact for Advertisement

Contact:

+91 9327 344 559 | +91 9426 334 455

Email:

plastic tomorrow@gmail.com | plasticudyog@gmail.com

Website:

www.plasticudyog.com

EARTH 2020 WHAT Next and HOW...?



SAMEER JOSHI, PHD
joshisameera@gmail.com

The picture represents two concepts; about countries in the world... the first is in using data to understand our world, which, by the way, is becoming increasingly important as a science from which we can derive trends to create models and forecasts. The second is our human footprint, an increasingly valid means to justify implementing circular systems into our economy and everyday lives.

(COURTESY CIRCULARECONOMYASIA.ORG)

It was apparent that data, different from what traditional statisticians collect to measure an economy is needed as the backbone of the circular economy.

We need to

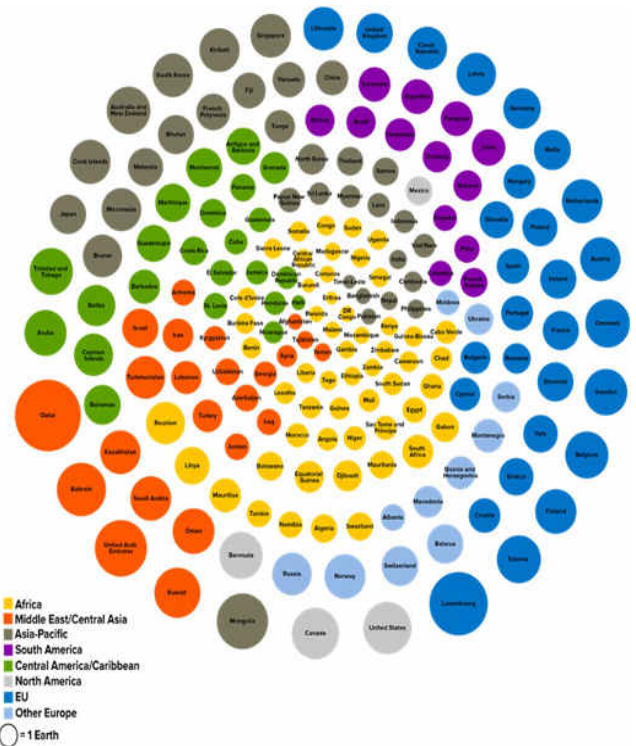
1. Use of plastics in the economy (volumes and types of plastics imported/exported, produced, and used in the manufacturing of products, etc.),
2. End-of-life management of plastics (collection of waste plastics, recycling paths and recycling rates, waste treatment, international trade in used plastics, markets/uses for recycled

plastics, etc.)

Humans use as much ecological resources as if we lived on 1.75 Earths. The Ecological Footprint is the only metric that compares the resource demand of individuals, governments, and businesses against what Earth can renew.

How the Footprint Works

Ecological Footprint accounting measures the demand on and supply of nature. On the demand side, the Ecological Footprint measures the ecological assets that a given population requires to produce the natural resources it consumes (including plant-based food and fiber products, livestock and fish products, timber and other forest products, space for urban infrastructure) and to absorb its waste,



especially carbon emissions.

The Ecological Footprint tracks the use of six categories of productive surface areas: cropland, grazing land, fishing grounds, built-up land, forest area, and carbon demand on land.

On the supply side, a city, state or nation's bio capacity represents the productivity of its ecological assets (including cropland, grazing land, forest land, fishing grounds, and built-up land). These areas, especially if left unharvest, can also absorb much of the waste we generate, especially our carbon emissions.

It is estimated that between 1950 and 2015, 8.3 billion tons of plastic were produced, of which only 7% were recycled. About half of the plastic we produce today is discarded after only one use. A paradigm shift and action is needed to rethink, recycle and manage plastics for our future.

Objectives

Equipping public and private organizations with accurate and updated data is essential to set mitigation goals and monitor progress over time. The calculation of the plastic footprint is the first step towards the 3R: reduce, reuse and recycle. This will allow the company to limit its impact on the environment and human health.

Plastic footprints on a business and sectoral scale can be done using the life cycle methodology (LCA), focused on the consumption of plastic

These are the scopes of our plastic footprint services:

- Inventory of use and disposal of plastics.
- Inventory of "leaks" of plastic in the environment.
- Plastic footprint reduction strategy.

The EU's new Circular Economy Action Plan, of 2020 has many things. All EU policymakers know that "involving stakeholders throughout the value chain" must include the supply chain coming out of Asia. The challenge for the new Circular Economy Action Plan lies in the ability to influence other regions as the EU cannot achieve their goals in isolation.

The EU is committed to eco-design or circular design. This is relevant for all of us in Asia and India too. Consumer engagement is, of course, necessary except the Action Plan goes one step further by wanting to phase out green washing and planned obsolescence. Most certainly a noble endeavor except there is a bit of a problem. Many businesses and people don't fully understand the circular economy, not because they think it is recycling but become confused as to how it is supposed to actually function.

EU Circular Action Plan is Sustainable Production Processes. Here is where the EU introduces the new SME Strategy to foster industrial collaboration through clusters. The document also states "...the EU Environmental Technology Verification (ETV) scheme will be registered as a EU certification mark and may extend its scope to promote cleaner production processes among SME's."

Less Waste More Value

Waste is on the increase, now each EU citizen generates approximately 488kgs per year with packaging waste reaching 173kgs per person per year in 2017 - the highest level ever.

Skills development for the circular economy is one topic frequently.

There is a lot of work for the EU to undertake to realize their circular dream. It is the interconnectedness of the global supply chain that presents the most challenges. Many Asian companies are no longer focused on European markets due to the ever increasing regulatory environment. How Asia responds once the Action Plan starts gaining traction will determine both the EU's circular ambitions and Asia's sustainability agenda.

As 2020 throws many challenges at us, we need to overcome and think and act how to move forward...

NEW PROJECT INJECTION MOULDING



Sanat N. Shah
 Plastic Project & Recycling Consultant
 +91-9825055314 | sanat.1957@gmail.com



INTRODUCTION

Injection Moulding is an important part of our every day lives, our world would be very different without it and product designers need to know about it, they will use it many times during their careers.

Injection Moulding is the process of heating plastic granules to melting point before injecting them at high pressure through a nozzle into a mould. When the plastic cools the mould is opened and the newly formed plastic part is removed.

the process has been modified and developed in numerous ways and now there are many different types of Injection Moulding, such as :

- 0> Injection Blow Moulding
- 0> Twin / Triple Injection Moulding
- 0> Multi-component injection moulding
- 0> Multi-station injection moulding
- 0> Reaction injection moulding
- 0> Gas injection moulding - and many more.

TYPICAL MATERIALS

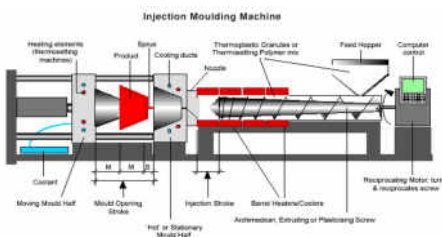
Thermoplastics

- 0> Nylon
- 0> Polystyrene
- 0> Polyethylene
- 0> Polypropylene
- 0> PVC
- 0> ABS/SAN
- 0> PC
- 0> PET
- 0> Eng. Thermoplastics

Thermosets

- 0> Epoxies
- 0> Melamines
- 0> Unsaturated polyesters
- 0> Phenolics
- 0> Urea
- 0> Polyurethane
- 0> Polylactic acids

INJECTION MOULDING MACHINES

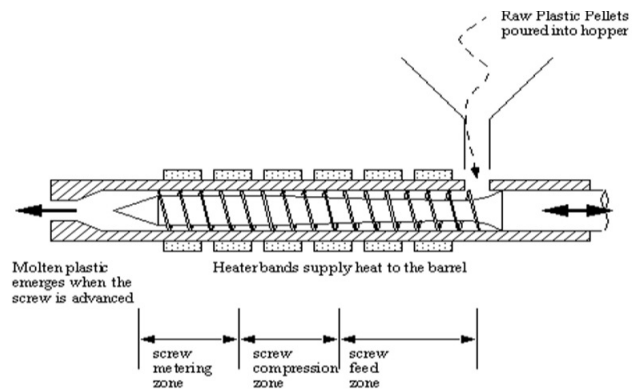


Atypical injection moulding machine is seen above with the covers removed. Plastic pellets are poured in the hopper & finished parts emerge from the dies.

Injection System

A material hopper acts as an input buffer

- A heated chamber melts the material
- An injector forces the now viscous fluid into the mold
- Previous mechanisms used an injection plunger
- Current mechanisms use a reciprocating screw
- Basically the screw extends from the hopper to the injection chamber.
- Along the length of the screw chamber, heater bands are used to melt the plastic.
- As the screw turns, it moves raw solid plastic from the hopper, to the injection chamber. The buildup of pressure in the injection chamber forces the screw back until enough for a shot has accumulated.
- The screw is forced forward to inject the plastic into the mold.



- There is a contribution to melting by pressure that allows the temperature of the heating bands to be lower.
- The purpose of the screw is to generate a homogenous melt with little orientation in flow direction.

TYPICAL ZONES CAN BE IDENTIFIED ON THE SCREW

> **Feed** - a screw with large cavities to carry more material.

- > **Compression** - the depths of the screw thread reduce, leading to elevated pressures, and pressure induced melting.
- > **Metering** - small and uniform threads to provide controlled quantities. This also serves as a final mixing stage.
- Screws are often low/medium/high compression ratio as a result of the change of screw volume from the feed to the metering stages - screw selection will vary between materials, but a low compression ration screw will ensure good melting in most cases.

- Screws are nitride treated to improve tool life. Screws might also be made slightly smaller to compensate for thermal expansion when heated.

- Screws are often driven by electric or hydraulic motors.

- The heat capacity and melting point temperatures of various materials determine the energy required to melt the plastic and the energy to be removed for solidification (and for ejection).

- The volume of the injection chamber determines the maximum mold cavity size. The volume provided is often for polystyrene. When using other materials the volume can be corrected.

CLAMPING SYSTEM

- The mold is held closed with a certain clamp tonnage.

- As cycle times decrease, the plastic melt becomes less consistent.

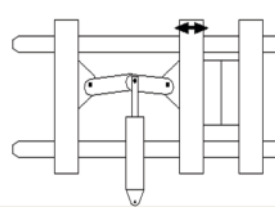
- Each heating zone uses electrical heating bands with thermocouples, or pyrometers to control the temperature.

- When injecting, the mold is moved then clamped shut. The mold halves are mounted/clamped/screwed on two platens, one fixed, one moving. The stationary platen has a locating ring to allow positioning on the mold half over the injection nozzle. The moving half has ejector

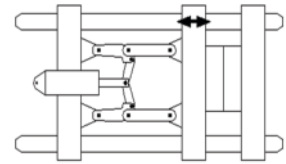
pins to knock out the finished part. Larger plates are found on larger injection molding machines. Injection molding machines pressure is calculated as injection pressure over an area in the mold.

The platens are actuated by hydraulic driven mechanisms. These are slow, but can exert great forces. In lighter presses other mechanisms can be used.

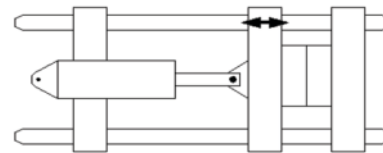
CLAMPING MECHANISM



Single toggle clamped mechanism



Double toggle clamped mechanism



Hydraulic clamp mechanism

INJECTION MOULDING MATERIALS

Materials

- Materials often come as raw beads. These can be mixed, colored, have other materials added, or reused.

- Quite often scrap parts are ground up, mixed with new materials and reused. But, caution is required to reduce contamination.



Plastic Tomorrow

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

Contact for Advertisement

Contact:

+91 9327 344 559 | +91 9426 334 455

Email:

plastic tomorrow@gmail.com | plasticudyog@gmail.com

Website:

www.plasticudyog.com



PPH ENTERPRISES

Manufacturers:

All Kind of Plastic Blow Moulding and
injection Moulding Machineries

BLOW MOULDING MACHINE

HI TECH | HI QUALITY | HI OUTPUT



Suitable to Machine
PVC, HDPE & PP Containers

Contact: +91 9444 756 594 | 9940 454 844 | 9600 162 563

Email: pph1288@gmail.com

#77, Kanniamman Nagar, Annex Vadaperumbakkam, Chennai - 60, India



SINCE
1988



Paper Bags
Making Machine



FLEXXO
Printing Machine

Our Other Products: Slitting Rewinding, Lamination Machine, Cutting & Sealing Machine

Plot No.5, Peniel Nagar, Viragnur Dam, Madurai - 9.
Ph: 0452 246 56 67 / 93445 75075

email: flexo@carmelengg.in
www.carmelengg.com



Plastic Tomorrow

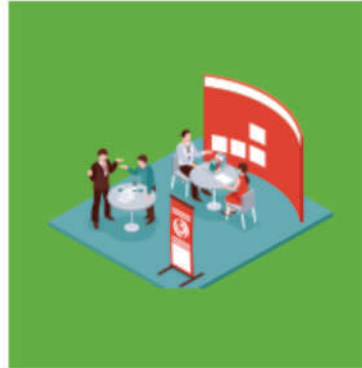
BI- MONTHLY MAGAZINE, BI - LANGUAGE ENGLISH & GUJARATI PLASTIC INDUSTRIES PERIODICAL.



**Business Expand
at Your Door Step...**

www.plasticudyog.com

Our Editions



Machinery | Moldings | Raw Material | Packaging Material
Additives | Plastic Articles | Trade Inquiry | Exhibition

more....



Email: plasticudyog@gmail.com | plastictomorrow@gmail.com

Contacts: +91 9327 344 559 | +91 9426 334 455

Whatsapp: +91 9998 687 659



Innovation Drives Industries. We Drive Innovation.

Pan-India | Economical Servicing Solutions | 30+ Years of Experience

INTRODUCING

Laser Welding Studio

By Nickunj Group

Nickunj brings Laser Technologies and Laser Systems perfectly tailored to the application fields of various industries. We offer economical and efficient solutions to restore damaged/ worn-out Die & Moulds which are executed with utmost accuracy producing homogeneous melt at the fusion point.

We also provide consumable like Electrodes for laser welding, Laser Lamps, Magnetic Clamps and many more allied products along with services for all types of machines with AMC contracts.

OUR LASER WELDING TECH CENTERS ARE LOCATED AT:

Andheri:

C/40 Ground Floor, Raj Industrial Estate, Military Road, Marol Maroshi, Andheri (E) – 400 059.
Tel: +91-22-292-082-98/99
Mob: +91-900-409-0409

Baddi:

72, DIC Industrial Area, Baddi, Dist Solan (HP)
Tel: +91 179-524-5540 Fax: +91-179-524-5539
Mob: +91 981 834 4231

Vasai:

Unit No.3, Dewan Industrial Estate no.4, Plot No.46 & 47, Navghar, Vasai – (E), Thane – 401210
Tel: +91-981-929-4485

Ahmedabad

Shed No. 19, BARSELONA, S.P. Ring Road, Odhav, Ahmedabad : 382415
Tel: +91-972-433-3803



DISCOVER
LIMITLESS
POSSIBILITIES
WITH
NICKUNJ
GROUP

Nickunj Eximp Entp P Ltd
An ISO 9001:2008 Company

Sri Joravar Bhavan, 93 M. Karve Road, Marine Lines, Mumbai-20
PHONE: +91 22 4322300 | EMAIL: info@nickunj.com
WEBSITE: www.nickunj.com