



PLASTIC TOMORROW

Bi-monthly Plastic News Magazine

www.plasticudyog.com

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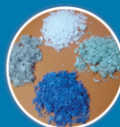
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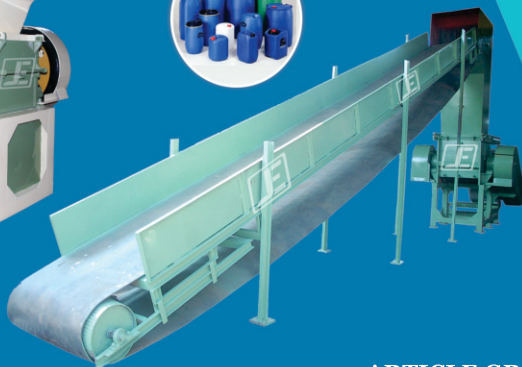
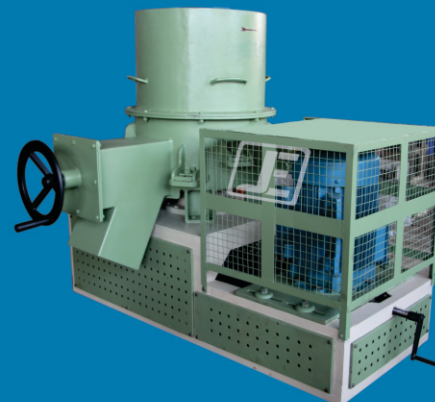
**PET BOTTLE
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**WOVEN SACK
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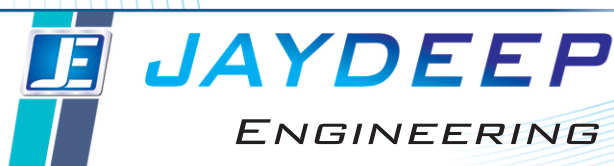
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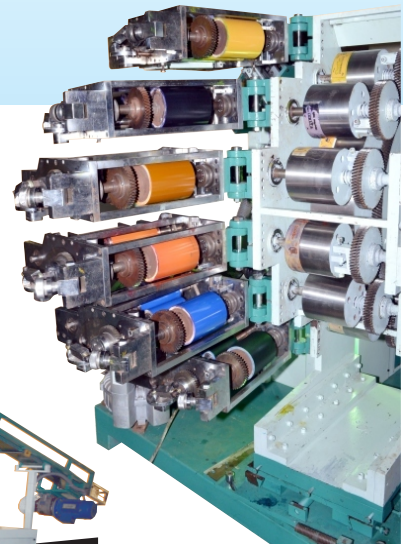
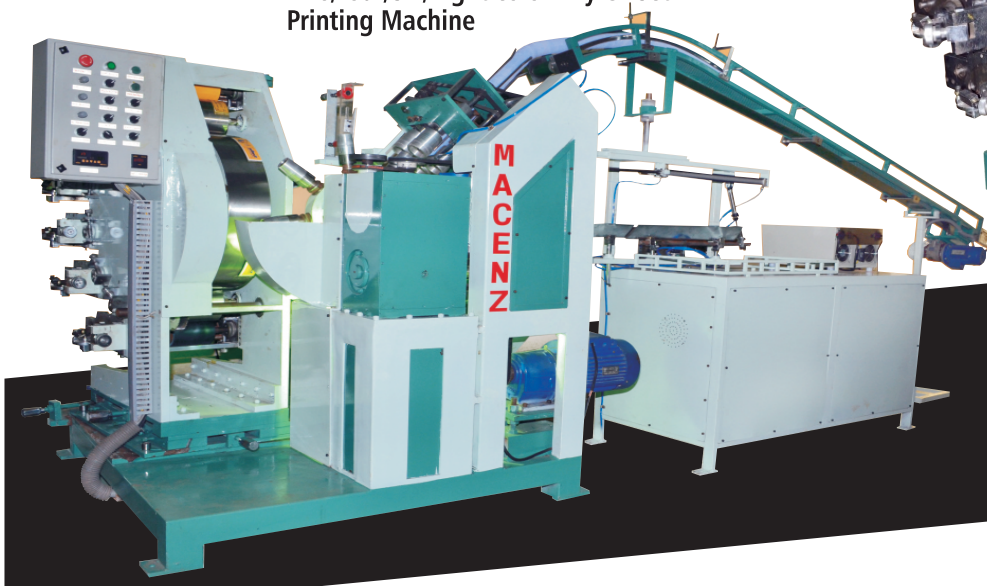


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STEER & Merck in partnership for collaborative research on processing special effect pigments

Scientists from two companies to accelerate development of right technology for adoption by Plastic industry

BENGALURU, INDIA, February 21, 2017: STEER, creator of advanced materials platform technologies that effectively transform and functionalise materials in the fields of plastics, pharmaceuticals, food & nutraceuticals, biomaterials and biorefining, today announced a research collaboration with Merck, a leading science & technology company, on creating co-rotating twin screw extruder technology to process special effect pigments.

The research collaboration will focus on accelerating the development of an appropriate technology for the plastic industry to effectively process special effect pigments. While STEER will use process know-how, technology platform and knowledge of materials transformation, Merck brings to the table its understanding of pigments and their behaviours and core research work in plastics. STEER labs in India will carry out the research work. STEER and Merck will jointly validate the research work before taking to market the technology platform.

Commenting on the collaboration, **Dr. Babu Padmanabhan, Managing Director and Chief Knowledge Officer, STEER**, said, "This is a major milestone for STEER, as the research collaboration is an acknowledgement of our capabilities and technology by a global leader. Our 21st century, co-rotating twin screw processor with fractional lobed elements allows for work on materials using precise application of forces — kneading, stirring or shearing material at specific zones of the processor —

resulting in a quantum jump in process capability. With its ability to work with sensitive materials, our technology truly ushers in a new age of advanced materials through Intelligent Compounding. Our rich legacy of research and patented technologies will complement the objectives of this unique venture."

Gordon Price, Technical Service Manager, Pigments in Plastics, Merck, said, "STEER has been pioneering the materials transformation research in Plastics and holds several patents in this sector. We believe in STEER's technology platform and research capabilities, which enjoy proven track record. Through this research collaboration, we intend to master the co-rotating twin screw extruder technology to process special effect pigments and bring to market the most advanced platforms."

Processing special effects pigments is still a major challenge for the plastic industry, as the pigment platelet structure is damaged in the processing stage. Any alteration or change in the size of the structure hinders effective coloration and alters the appearance of the pigments in plastics. An appropriate process window to process pigments of various sizes will benefit the industry. STEER's technology platform is customised for producing effect pigments compounds and master batch.

About STEER

STEER is a creator of materials platform technologies that transform and functionalise materials in the fields of **plastics, pharmaceuticals, food & nutraceuticals, biomaterials and biorefining**. Founded in 1993 by

Dr. Babu Padmanabhan with a vision to **steer a new world**, STEER today has 5 global offices and 10 satellite offices, serving over 39 countries and employs over 500 gifted engineers, scientists and technicians across the globe. With **60 patents for breakthrough innovations**, the company is committed to the design, creation and implementation of advanced platform technologies, components, elements, peripherals and applications that help in the creation of safer, stronger, lighter, more sustainable products.

About Merck

Merck is a leading science and technology company in healthcare, life science and performance materials. Around 50,000 employees work to further develop technologies that improve and enhance life — from biopharmaceutical therapies to treat cancer or multiple sclerosis, cutting-edge systems for scientific research and production, to liquid crystals for smartphones and LCD televisions. In 2015, Merck generated sales of € 12.85 billion in 66 countries.

Founded in 1668, Merck is the world's oldest pharmaceutical and chemical company. The founding family remains the majority owner of the publicly listed corporate group. Merck, Darmstadt, Germany holds the global rights to the Merck name and brand. The only exceptions are the United States and Canada, where the company operates as EMD Serono, MilliporeSigma and EMD Performance Materials.

For more information, please visit www.steerworld.com or write to aravind.gowda@steerworld.com

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COSMO FILMS COMMISSIONS SIGNIFICANT CAPACITY EXPANSION	7
CAPACITY EXPANSION PRODUCT GUIDE.....	8 & 9
PROJECT UPDATE	10 TO 13
STEER & MERCK IN PARTNERSHIP FOR COLLABORATIVE RESEARCH ON PROCESSING	5

INDEX.

01.AMRUT PLASTOPACK	06
02.AUM PLASTIC MART PVT.LTD.	16
03.CHAMPANERI ENGINEERS	4
04.JAILAXMI ENGINEERING CORPORATION	BACK COVER PAGE
05.JAYDEEP ENGINEERING	3
06.MODERN INDUSTRY	17
07.PEP-CEE PACK INDUSTRIES	1
08.PLASTIC UDYOG	19
09.RENUKA POLYMERS	2
10.TCI PRODUCT	18
11.TOP DRIVE	15

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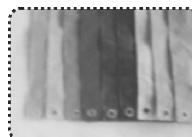
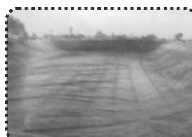
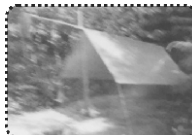
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COSMO FILMS COMMISSIONS SIGNIFICANT CAPACITY EXPANSION



DELHI, Feb 8, 2017– Cosmo Films, a leading manufacturer of biaxially oriented polypropylene (BOPP) films which go in for packaging, lamination & labeling applications; has announced start up of its tenth, 10.4 metre BOPP line. With installation of this new line, the company will increase its annual capacity by 40%, taking it to 1.96 lakh MT. Company's current annual capacity stands at 1.36 lakh MT.

The new line whose announcement was made in October 2015 has been commissioned ahead of its schedule and has been installed at company's existing facility at Karjan, near Vadodara, India which already houses BOPP lines, extrusion coating & chemical coating lines and a metalizer. The commissioned line is the most advanced line available in the market today in terms of its width and output and is the first 10.4

metre line to be installed in the country. The line is equipped to deliver both superior quality products with minimized scratches, oil or additive spots & high surface energy as well as consistent quality due to automatic changeovers. The line is also capable of producing films as thick as 80 microns to cater to segments like textiles which require thicker films.

The line output would cater to both domestic and export markets. The new line is part of a series of expansions which have been announced in the last one year by the company for both its India operations and its subsidiaries in US & Korea.

Speaking on the development, Mr. Pankaj Poddar, CEO, Cosmo Films Ltd said, "I am pleased to inform that the line has been installed ahead of its schedule and well within the projected capex of 200 crores. The high speed line equipped with automated

changeovers and automatic consumption of waste will not only lead to an increase in power savings but also help the company with its overall operational efficiencies. The new line is expected to contribute to substantial growth in sales and profit in Financial Year 2017-2018."

About Cosmo Films Limited

Established in 1981, Cosmo Films Limited today is one of the global leaders and manufacturers of Bi-axially Oriented Polypropylene (BOPP) films used for packaging, labels and lamination applications. The company is the largest exporter of BOPP films from India and is also the largest producer of thermal lamination films in the world with plant cum distribution centres in India, Japan, Korea & the U.S along with global channel partners in more than fifty countries. For more information, visit www.cosmofilms.com or write to enquiry@cosmofilms.com.

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

Dinesh Shah.

Signature of Publisher

Dt.28.02.2017

Facial wipes in India is in nascent stage with limited number of brands. Thus there is potential for wipes to grow. The disposable wet wipes market - fairly niche and nascent in India still Grown to 100 Crores.



- Baby wipes segment - 65-75 Crore and Personal hygiene wipes - 30-40 Crore
- Being a lifestyle item, it will take a while before there comes an inflection point.
- The facial wipes have application offered (in fact USP) as the following:

Deep pore cleansing
Sunscreen

Makeup removal
Toning

Moisturizing
Multi Use

Refreshing wipes
Oxygen booster

- Please note the **Consumer purchaser Influencers:**
- **Price** was and is the most important factor for consumers.
- **Brand awareness & benefits** also important. **Brand Awareness is no less influencer.**
- Most uses are by **unmarried persons**
- Relatively there is **younger-aged** users.
- **More of students** and then **working women** use facial wipes
- **Higher the income of people is, less** they use the facial wipes [obviously, they roam in AC vehicles and have better environment always around them]
- **Highest numbers of users follow in the least income group of people.** {People making less money definitely spend on such products, courtesy they visit super stores and impulse-buy such 'new' cosmetic products.}
- And thus the biggest target market for this product on first hand in INDIA can start with **the students and working ladies** between the age group of 18 to 24.
- Now also note as to **why** people do and can prefer facial wipes over soap or water.
 - For convenience
 - Time saving
 - Mostly for cleansing and then for deodorant and for make up removal
- **When Used?**
 - During day time mostly
 - During heat for sweat cleansing
 - During Travel
- **Using period**
 - Most use since just one year, it is a new Phenomenon [and so good to introduce since there is no strong brand preference of love or people are not wedded to any particular brand.
- In India, most preferred **color for the wipe is white**, followed by pink.
- Most preferable **variant** is Aloe Vera followed by Cucumber, lemon and Herbal. Aloe Vera variant of wipes- be made more available than other variants. Other 3 variants: Rose, Orange & lemon equally important. Fast moving still is Apple variant currently- is also liked by many consumers-Can try to popularise.
- **DO good within Wipes:**
 - Cleansing is the most important do good benefit
 - Oil balancing, Deodorizing are followed.
 - Hydration comes next BUT
 - Fragrance is moderately important.

- Freshness most important followed by softness / smoothness.
- Refreshing: This feature is important
- Nourishing and glowing is not so important
- **Purchase frequency:**
 - Maximum users- once a month
 - Equal people stand next as once in 6 months purchasers,
 - Every 2-3 month purchasers stand next but not much lesser people. Means once purchased, customers come back.
 - Factors affecting purchase of current brands:
- Visibility is the most important factor for the people to make purchase.
- Recommendations also important. i.e. word of mouth publicity. [Note that in INDIA whatever good or bad is purchased, the purchaser never try to prove in front of others that he is or was befooled.] And so, each one project his/her purchase as the best. And so recommendations are made.
- **Ideal Brand preferences for the people to make purchase decisions.**
 - Do- good benefits like cleansing, all-in-one, fresh etc. - most preferred as ideal brand perception.
 - And Feel- good emotions & brand are less important.
- **Most important parameters for the wipes are as below:**
 - Availability most important.
 - Followed by do-good benefits like cleansing, oil balancing et-cetera.
 - Moderately affected by Price & brand.
- **Buying behavior**
 - Major user base of wipes is educated and young women =>importance to reading back of pack, FOR its benefits, expiry date, skin type and ingredients and they read the benefits like- cleansing, oil-balancing, exfoliation.
 - Matured women 35+ more % read back of pack, followed by 25-35 years, by 18-24 years.
- **Brand preference and Brand Loyalty**
 - Max percentage of users change after few purchases
 - Many change because of on non-availability of preferred brand
 - About 20% of the users change brand every time
 - And about 15% never change the brand.
 - BUT Considerable decision-making happens at Point Of Purchase. And so the strategy can be devised accordingly.
 - Implied here that : upcoming brands have chances to gain market share
- **PLACE OF PURCHASE (Point of purchase- POP)**
 - Half of the purchasers Prefer Modern Trade followed by Medical Shops and Kirana.
- **Online purchase behaviour**
 - Online buyers affected mostly by variety.
 - Customer reviews & ease of purchase also imp.
- **Wipe Sampling:**
 - Flights most preferred for sampling.
 - Followed by Salons & Spas, hotels & Private Cabs.
 - In fact in India, KIRANA and Medical shops are the best sampling places.

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 Welcome to discuss, we are highly technical & professional.



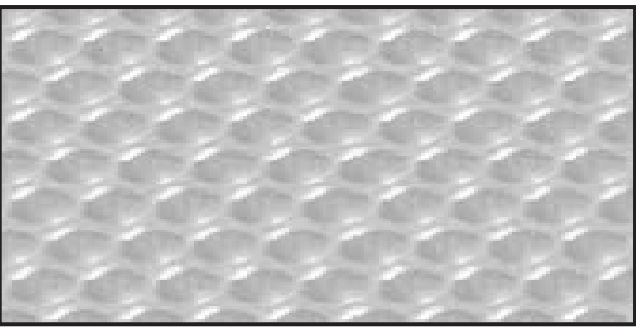
માત્ર ચાર લાખની મશીનરી: માત્ર પાંસઠ પૈસામાં તૈયાર થતી આ બાઉલ પંચ્યાસી પૈસામાં વેચાય છે.



પી.પી. પ્લાસ્ટિકની સૂતળી



અનેક સાઈઝના પ્રિન્ટેડ પેપર ફેન
45 લાખની મશીનરી



પેકેજિંગ માટે એર બબલ ફિલ્મ
મશીનરી માં રોકાણ રૂપિયા 45 થી 50 લાખ



રેડીમેઈડ કપડાં, જૂતાં, રમકડાં તથા અનેક બીજા જાતના પેકીંગ માટે વપરાશમાં લેવામાં આવતાં ખોખા બનાવો મશીનરીમાં રોકાણ રૂપિયા 52 લાખ.



વોર્શીંગ મશીન, ઓટોમોબાઈલ, ઇલેક્ટ્રીકલ, પ્લમ્બિંગ વગેરે ઉપયોગીતાઓ માટે કોરુગેટેડપાઈપ મશીનરીમાં રોકાણ રૂપિયા ૨૨ થી ૨૫ લાખ.

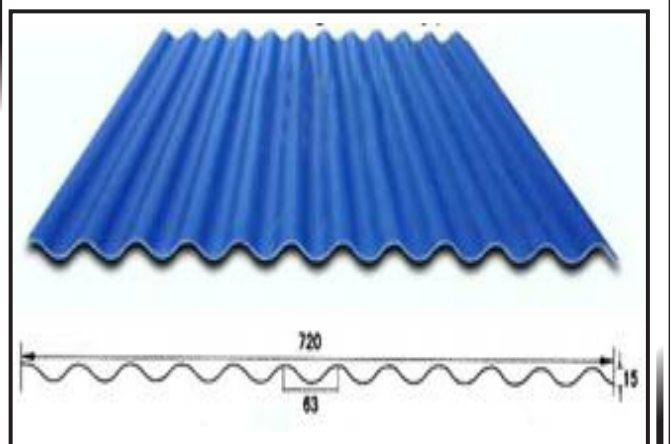
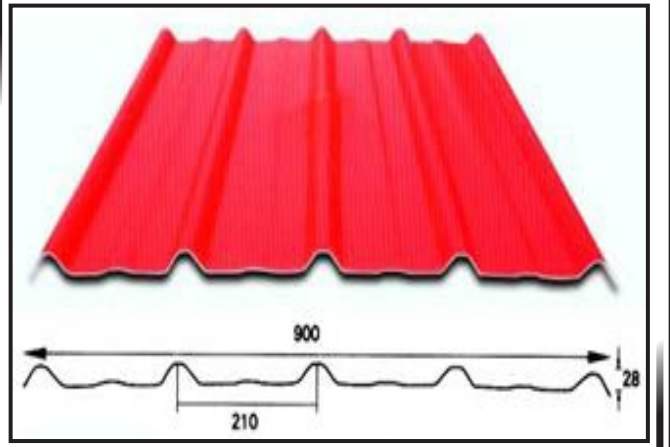


લૂપ પિન મશીનરીમાં રોકાણ રૂપિયા ૩૦ લાખ
જુદી જુદી સાઈઝ માટે જુદા મોલ્ડ. દરએકની કિંમત રૂપિયા ચારથી પાંચ લાખ.



હાર્ડ બોર્ડ ખૂબ મોટું માર્કેટ મશીનરી કિંમત ૭૨ લાખ.

પેપરને પ્લાસ્ટિક થી લેમીનેશન કરી કાગળ તૈયાર કરવો: કાગળની મોટી માંગ: પેપર કપ માટે, મિઠાઈના, તૈયાર કપડાં, અગરબત્તિના... વગેરે ખોખા માટે ઘણી મોટી માંગ છે. મોટું રોકાણ, મોટો ઇંદો મશીનરી કિંમત આશરે રૂપિયા 75 લાખ.



એકજ મશીનરીના સેટ માથી પીવીસી બોર્ડ વુડ + પીવીસી બોર્ડ અને ચુપીવીસી રૂફીંગ શીટ્સ બનાવી. મશીનરી કિંમત આશરે ૩ લાખ.

Kamal shah

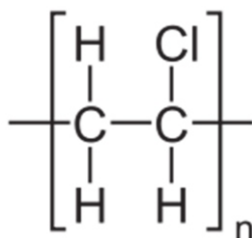
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પીવીસી બોર્ડ. વુડ + પીવીસી બોર્ડ. વુડ + પ્લાસ્ટિક દરવાજા અને ફેમ: એકજ મશીનરી સેટ માંથી બનાવી. કિંમત આશરે રૂપિયા 4.11 લાખ.

+VE Kamal shah**positiveaggression**

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OPVC pipes that will change the pipig future for the world now on. It is started.

Polyvinyl chloride, also called **Polychloroethene** or **PVC**, is a thermoplastic. It soft when heated and hard when cooled. Polyvinyl chloride is made by polymerization of the monomer vinyl chloride (chloroethene) $\text{CH}_2=\text{CHCl}$.

Making Orientation of PVC: It is a discontinuous technology (stretching after extrusion), but without a gap between the two operations. As a result, the Molecor process **reduces the length of the process by 80% and energy consumption by 85%**.

Orientation is achieved by controlled stretching and expansion of the PVC pipe.

Now coming to OPVC and its differences from other two in terms of manufacture and structure is that while it is made, it is made by realigning the PVC molecules by means of biaxial orientation. **The thickness gets reduced to up to 45%** and the greatest physical enhancement that it gets is of its impact resistance which increases eight times. The strength also gets doubled. These pipes have large bore capacity with increased hydraulic capacity. The use of OPVC has been increased in several folds in last seven years and has taken over UPVC. Whereas the leader in the market remains the MPVC which has got the highest spread of applications worldwide. In terms of Eco friendly factor, OPVC cleans sweeps off other two as it has been proved that the future of PVC types lies with OPVC as they are most Eco friendly pipes available. Some of the other features of OPVC which makes them stand alone are its high corrosion resistivity, light weight, smooth bore with lowest frictional losses, high strength and recyclable. The PVC pipe is altered at the molecular level to change the amorphous structure of UPVC into layered structure by Oriented process hence it is called O-PVC.

The softening point of OPVC is 82 deg C but we recommend usage up to 60 deg Celsius only. The ideal operating temperature for OPVC Pipes is from -25degrees to 60 degrees.

The life on minimum for O-PVC pipes is 50 years. ! Surprising Fact!

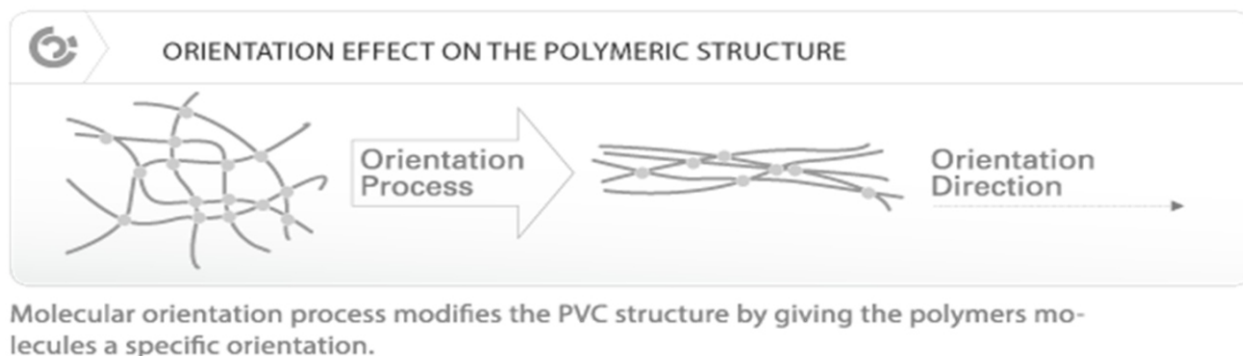
PVC-O is made by realigning the PVC molecules through a process of biaxial orientation. This greatly enhances the material properties - around twice the strength and ten times the impact resistance is achieved compared to traditional PVC-U material.

It means the wall thickness of PVC-O pipes can be reduced by up to 50% while maintaining the same pressure as that of the traditional PVC pipe. The result is that PVC-O has a larger bore offering greater hydraulic capacity; the pipe is manufactured with significantly less embodied energy and is more material efficient compared to other pipe options.

Although PVC-O pipes have been produced and used in Australia for over 20 years, recent manufacturing technology advances have seen greater availability in the last five years. Australia has been at the forefront of these significant advances and has the largest PVC-O pipe manufacturing capacity in the world.

Considering their relative low weight, PVC-O pipes are strong and durable. It stays strong through a range of temperatures, resulting in fewer burst pipes and other maintenance issues. The long lists of benefits of PVC-O pipes include:

- Exceptional Strength and Ductility
- High Impact Resistance
- Larger Bore offering greater hydraulic capacity
- Smooth Bore offering Low flow resistance
- Corrosion Resistant making it ideal for water infrastructure durability
- Guaranteed minimum stiffness of SN9 (DN100 - DN300), SN10 (DN375 - DN600)
- Light Weight offers savings in transport, installation and structural support
- Material & Energy efficient – 100% Recyclable
- Manufactured with significantly less embodied energy



This makes for a plastic with an unbeatable **tensile strength and fatigue, flexibility and resistance to impact**. Improvements in design and physical properties include: Non-Corroding Ductile Iron Pipe O.D. Larger I.D. than Ductile Iron and Conventional PVC Lighter weight than Ductile Iron and conventional PVC Higher Impact Strength Greater Cyclic and Hoop Strength Higher Design Stress Superior Notch Resistance One of the Safest and Easiest Pressure Pipes to Tap Thicker Walls than all PC 350 and Special Thickness

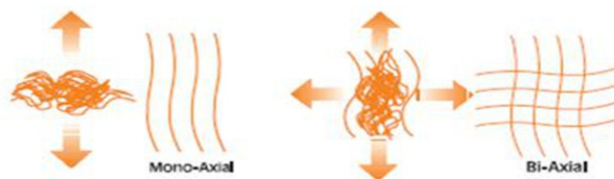


Figure 1. Mono-axial and Bi-axial Orientation



DN110mm-630mm

ISO16422

It totally rules out the possibility of using low-quality raw material in production and fully guarantees the property in terms of hygiene, and mechanics, etc.

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OD	0.8MPa		1.0MPa		1.25MPa		1.6MPa		2.0MPa	
(mm)	WallThick kness	Toleran ce	WallThickn ess	Toleran ce	WallThickn ess	Toleran ce	WallThickn ess	Toleran ce	WallThickn ess	Toleran ce
	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
110	1.8	0.4	2.2	0.5	2.7	0.5	3.4	0.6	4.2	0.7
125	2	0.4	2.5	0.5	3.1	0.6	3.9	0.6	4.8	0.8
140	2.2	0.5	2.8	0.5	3.5	0.6	4.3	0.7	5.4	0.9
160	2.5	0.5	3.2	0.6	4	0.6	4.9	0.8	6.2	1
180	2.8	0.5	3.5	0.6	4.4	0.7	5.5	0.9	6.9	1.1
200	3.2	0.6	3.9	0.6	4.9	0.8	6.2	1	7.7	1.2
225	3.5	0.6	4.4	0.7	5.6	0.9	6.9	1.1	8.6	1.3
250	3.9	0.6	4.9	0.8	6.2	1	7.7	1.2	9.6	1.5
280	4.4	0.7	5.5	0.8	6.9	1.1	8.6	1.3	10.7	1.7
315	4.9	0.8	6.2	1	7.8	1.2	9.7	1.5	12.1	1.9
355	5.6	0.9	7	1.1	8.7	1.4	10.9	1.7	13.6	2.1
400	6.3	1	7.8	1.2	9.8	1.5	12.3	1.9	15.3	2.3
450	7	1.1	8.8	1.4	11	1.7	13.8	2.1	17.2	2.6
500	7.8	1.2	9.8	1.5	12.3	1.9	15.2	2.3	19.2	2.9

The range of pipes usually made from 40 mm to 110 mm, 110 mm to 500 mm mostly in two different machinery sets for the economy of production and scale.

The age old nuisance of adding much of CaCO₃ to reduce the quality, distributing money among Government officers in achieving contracts and tenders, all such nuisance must stop though the quality pipes and assist to build better Nation, now on.

Jai HIND!

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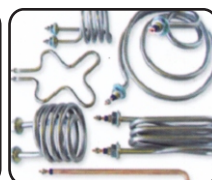


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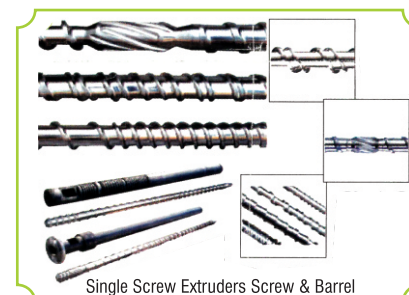
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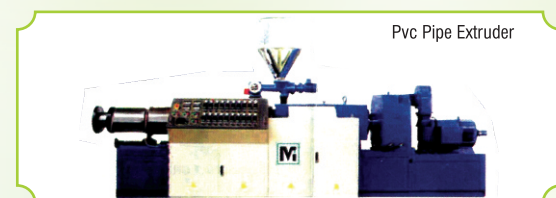
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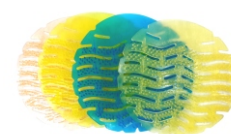
TCI VC 15 TCI VC 30 TCI VC 60

Vacuum Cleaner

Model	TCI VC 15	TCI VC 30	TCI VC 60 (2 & 3)
Capacity	15Ltr	30 Ltr	60 Ltr
Power	1100 W	1100 W	2200 W - 3300 W
Voltage	220V-240V	220V-240V	220V-240V
Height	55cm	76cm	90cm
Tank Diameter	345mm	345mm	440mm
Mode of Cooling	Circulation air cooling		
Air Flow Rate	48 L/S	53 L/S	105 L/S
Vacuum Suction	210 mbar	230 mbar	250 mbar
Length of the Cable	7 Mtr.	7 Mtr.	8 Mtr.
House Diameter	36 mm	40 mm	40 mm
Packing	43x43x61 cm	43x43x81 cm	63.5x56x99cm



Soap Dispenser



Urinal Screen



Scrubber Dryer

Scrubber Dryer Specification

Voltage / Frequency	220-230 V / 50 Hz
Water Sucker	770 mm
Brush Diameter	455 mm
Rolling Brush Motor	220-240V / 1100W
Water Sucking Motor	220-230V / 1000W
Brush Rotating Speed	148 rpm
Cleaning Width	455 mm
Brush Pressures	30 Kg
Clean Water Tank capacity	28 Ltr
Dirty Water Tank Capacity	32 Ltr
cleaning Rate	1820m2/h
Cable	18m
Weight	75 Kg
Size	1060x650x1025 mm



Wet Mop Set



Caution Board



Manual Sweeper

Manual Sweeper Specification

Model	TCI FS 600
Hopper Capacity	40 Ltr.
Area Coverage	2600 Sq. Mtr. / Hour
Sweeping width with Main Brush	500 mm
Sweeping width with Main Brush	500 mm
Weight	27 Kg.
Dimension	30 x 29 x 17 Inch
Color	Yellow



Double Bucket Wringer
Trolley with Caddy



Glass Cleaning Kit



Single Disc

Single Disc Specification

Model	SD 1100	SD 1500
Power	1100 W	1500 W
Voltage	220V	220V
Speed	154 rpm	154 rpm
Main Cable Length	12 mtr	12 mtr
Base Plate Diameter	17 inch	17 inch
Weight	48 Kg.	68 Kg.
Accessories	Main Bdy Handle Water Tank, Pad Holder, Hard Brush, Soft Brush	Main Body Handle Water Tank, Weighting Iron, Pad Holder, Hard Brush, Soft Brush



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