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Vol.32,No.1

March / April 2025

RNI No. 59854/94

Page.50

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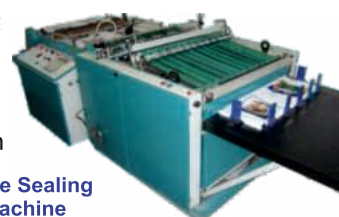
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MATERIAL

LLDPE, LDPE, HDPE





AB CO-EXTRUSION HIGH SPEED BLOWN FILM MACHINE

APPLICATION

AGRICULTURAL FILM
PACKAGING FILM
MULTCH FILM

MATERIAL

LDPE, LLDPE



MONOLAYER HIGH SPEED BLOWN FILM MACHINE

APPLICATION

GREEN SHED NET

MATERIAL

HDPE, MASTERBATCH



ABA CO-EXTRUSION HIGH SPEED BLOWN FILM MACHINE

APPLICATION

GARBAGE BAGS
SHOPPING BAGS
SHADE NET FILM LINERS
BOTTOM SEALED FLAT BAG
SUPERMARKET BAG

MATERIAL

LLDPE, CaCO₃,
HDPE, LDPE,
Additives



MONOLAYER HIGH SPEED BLOWN FILM MACHINE

APPLICATION

BIODEGRABLE MATERIAL
SHOPPING BAGS
GROCERY BAGS
T-SHIRT BAGS
SHRINK FILM
LINERS

MATERIAL

HDPE, LDPE, LLDPE,
Masterbatch, CaCO₃



ABA CO-EXTRUSION MINI BLOWN FILM MACHINE

APPLICATION

COMPOSTABLE BAGS
SHRINK FILM

MATERIAL

HDPE, LDPE,
LLDPE, CaCO₃,
Additives



MONOLAYER MINI BLOWN FILM MACHINE

APPLICATION

BOTTOM SEALED FLAT BAG
COMPOSTABLE BAGS
SHOPPING BAGS
SHRINK FILM
CARRY BAGS
VEST BAGS
LINERS

MATERIAL

HDPE, LDPE,
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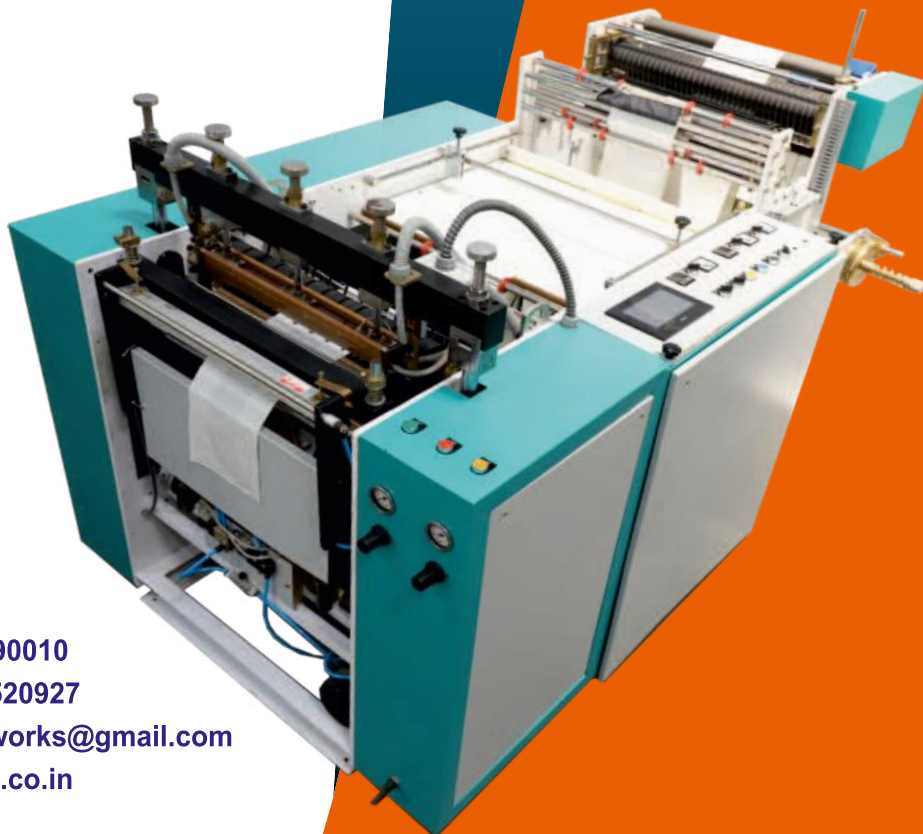


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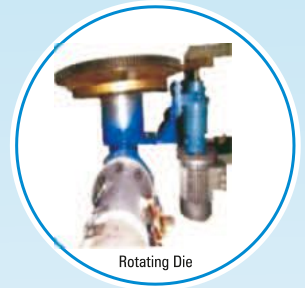
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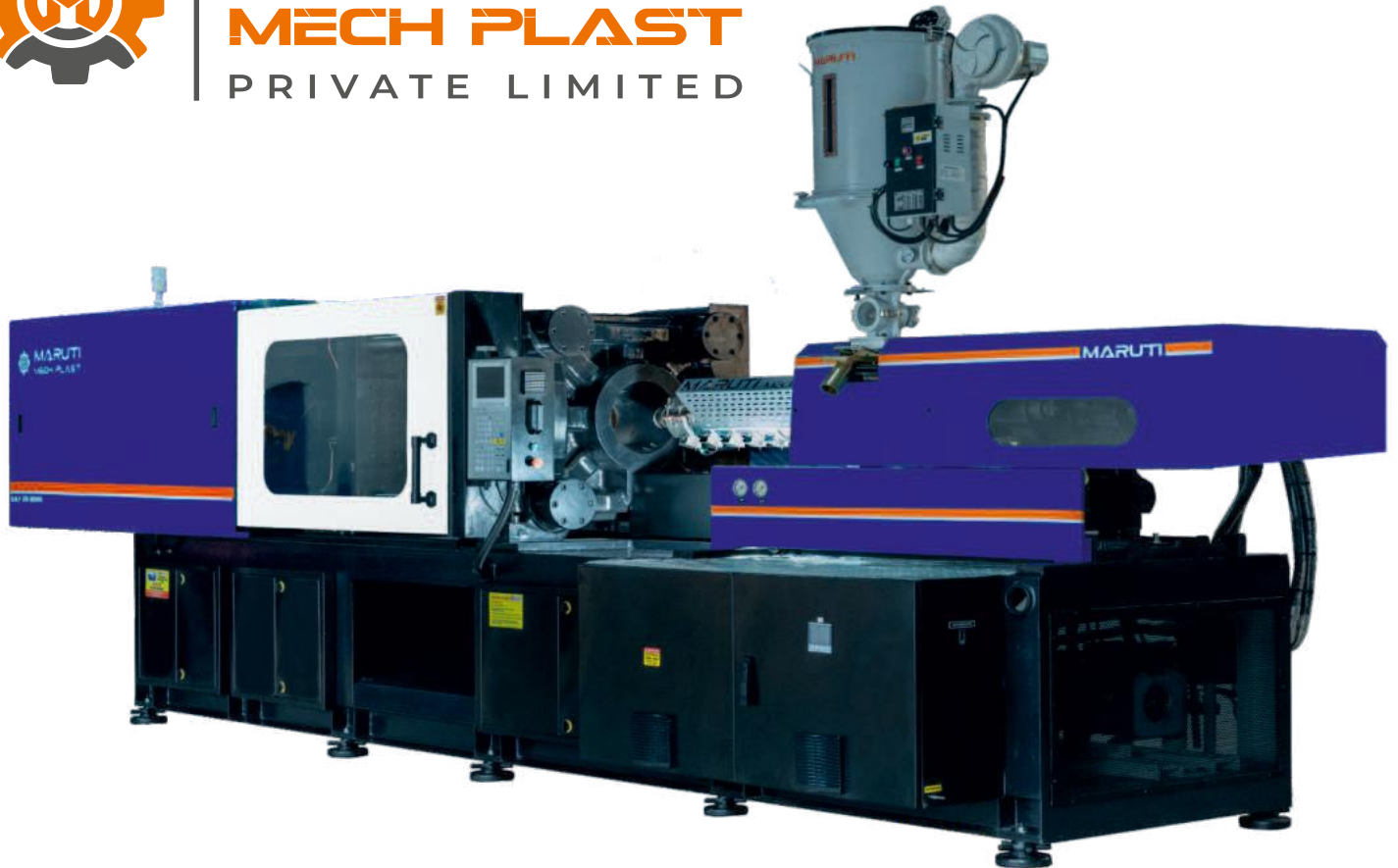
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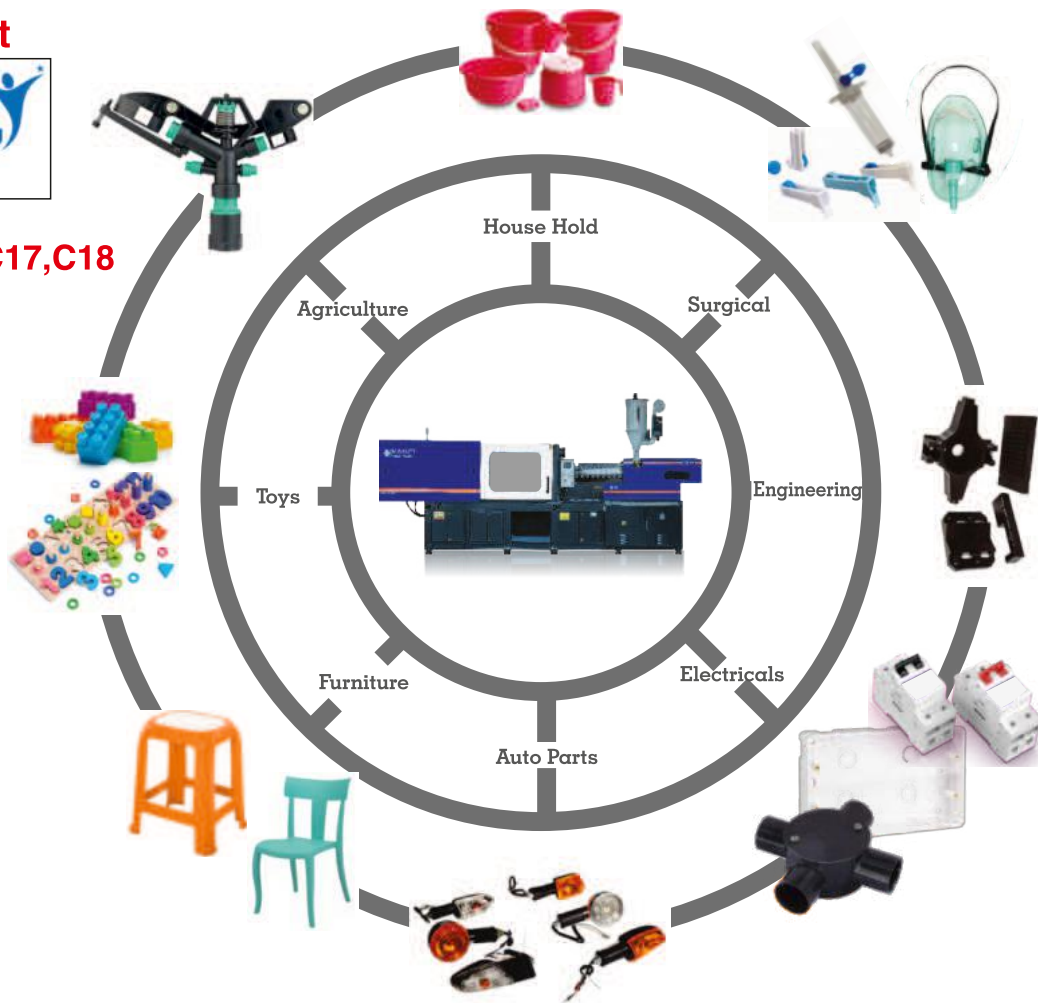
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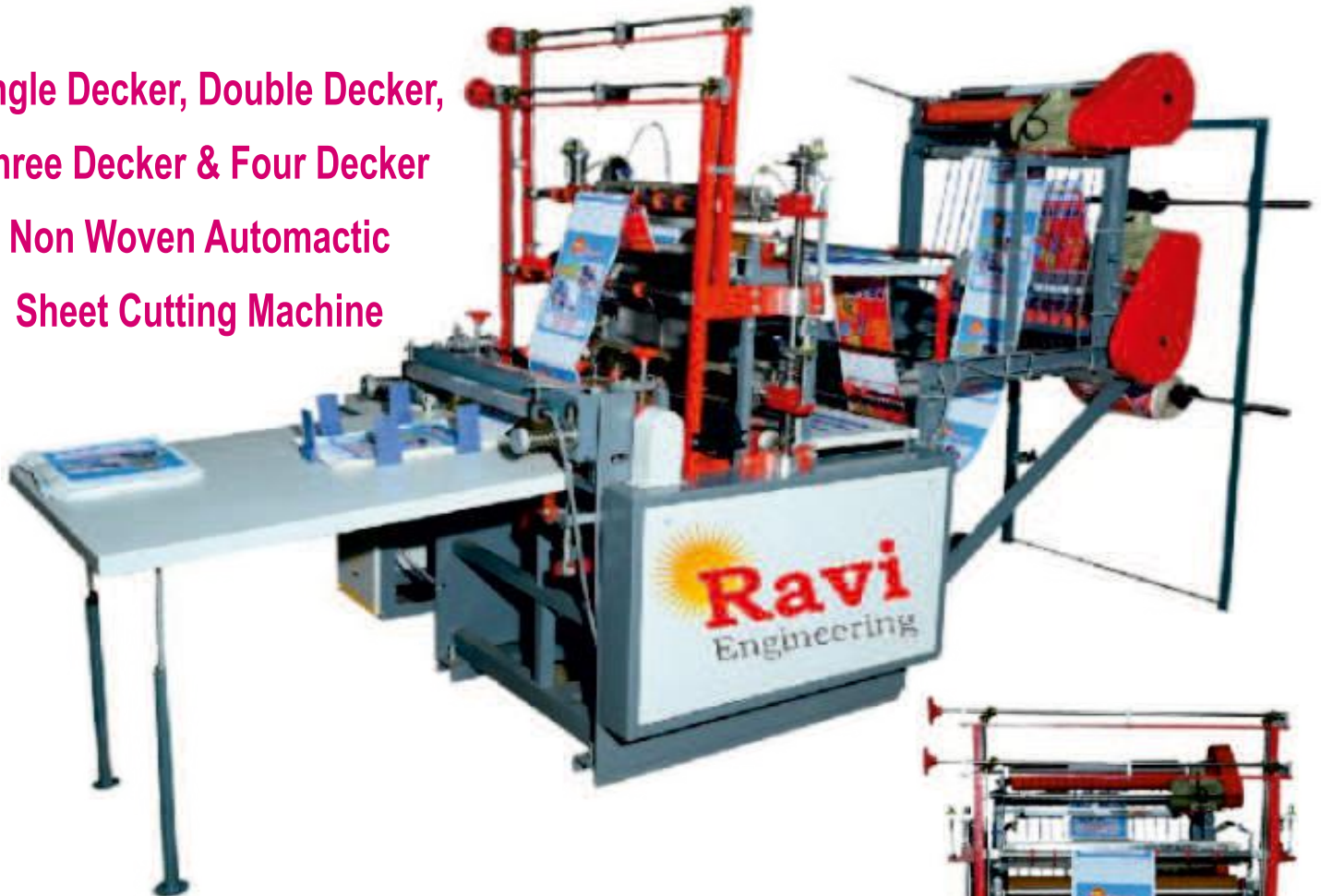
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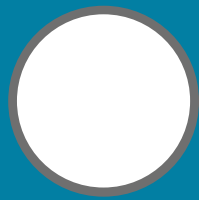
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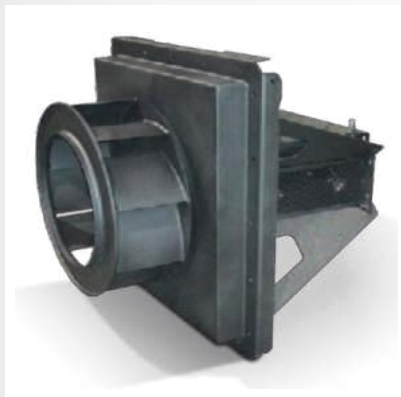
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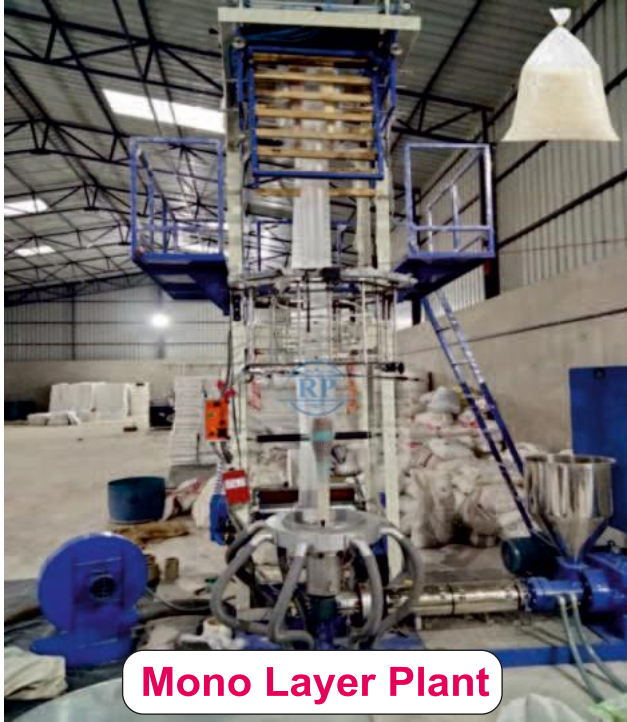
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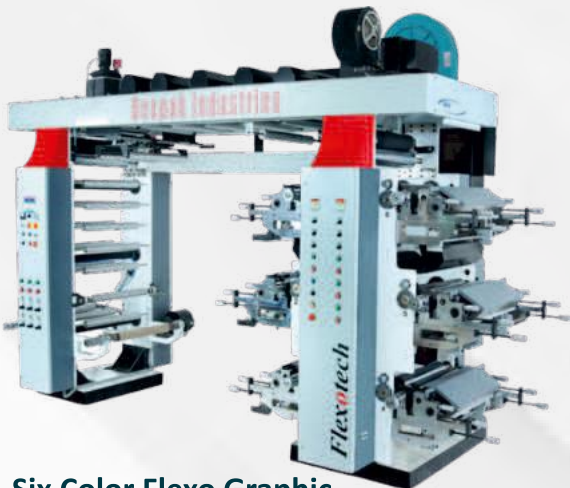
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Editorial

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FEARLESS? THE WORLD IS YOURS!

More often than not our fears dictate our actions and determines what we can achieve. Every moment our life bears the imprint of fear. What we should do what we should not do, where should go and where should not, how we feel about us and others----- all these are tied directly to our fears. We cannot do many things for fear of failure. We cannot put forth our creative ideas for fear of being ridiculed. We cannot invest money for fear of losing. We cannot speak well before an interview board or in a meeting for fear of rejection. Thus we continue to remain deprived of many things we could easily achieve had we not been fearful. There is thus a need to overcome fear as our altitude of success is proportionate to our ability to overcome fear.

All of us have fear as basic emotion as a part of our survival mechanism and it is carried forward by our thought process. It is not always rational or logical and sometimes fear is quite unpredictable. It is not possible to get rid of fear as it is part of our survival instinct. Hence we need to attain mastery over fear or overcome fear and not let fear take over our lives.

Having fear does not necessarily mean having a problem because of fear. Fear can be deep, driving force, the greatest motivator behind success as it helps to elicit extra potential form within to face challenges. It keeps us alert and thereby saves us from disasters as a useful safety valve. But in the subconscious it resists action, deprives us of joyful living and could have a harmful effect on mind and body. Then it needs to be addressed. We instinctively know when our fear is motivator and when it is stressor.

The source of fear is always within us irrespective of any external stimulus as it is intensely personal and subjective in nature. So there is no need to find excuses for not tackling or blaming external circumstances. Fear is our own creation, our own emotion, and could sometimes be totally baseless. Our sense of insecurity and the diffidence we feel, foster fear. Fortunately, not all our fears come true! but the tragedy is that we never learn lessons from this repeated pleasant experience and become fearful too often for our own good.

To overcome fear, we must face fear. It is said "do the thing we fear and death of fear is certain". This is the quickest and surest way ever yet discovered to deal with fear. Therefore, action and getting started is always essential to combat fear. Once we start the walls of difficulty start crumbling. The best course is to break down a fearful task into a series of manageable chunks. The journey of hundred miles begins with the first step. Instead of looking at how far we have to go, we should focus on taking small steps.

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PRINTED PUBLISHED & OWNED BY
Malvindra Singh
PUBLISHED AT
12, Alankar, 1st Nadiadwala Lane, S.V. Road, Malad (W), Mumbai - 400064. India.
PRINTED AT
RACHANA PRINTERS
25, Neha Industrial Estate, Dutt Pada Road, Borivali (E), Mumbai - 400064. India.
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Indplas'25

INDPLAS is the largest International Exhibition on Plastics to be held in Eastern India and one of the largest plastics exhibition in India.

According to available information, reviews for Indplas 2025 in Kolkata are generally positive, highlighting it as a significant platform for the plastics industry in Eastern India, showcasing the latest innovations, and providing a valuable networking opportunities for manufacturers, suppliers, and industry leaders; with many praising the event's focus on emerging trends and potential in the region's growing plastics market.

Key points from reviews:

Comprehensive showcase:

Indplas 2025 is considered a great platform to see a wide range of plastic products, technologies, and raw materials under one roof.

Industry focus:

The event attracts a large number of relevant industry professionals, making it ideal for business connections and market research.

Innovation spotlight:

Exhibitors often showcase new advancements and cutting-edge solutions in the plastics sector.

Eastern India relevance:

Many appreciate the focus on the unique market dynamics and growth potential of Eastern India.

Networking opportunities:

The event is recognized for facilitating valuable interactions between industry players.

THE INDIAN PLASTICS INDUSTRY

Indian Economy, one of the world's largest and fastest growing, has witnessed robust growth rates in recent times, becoming the world's fifth largest economy and moving towards number three. At the forefront of this progress is the plastic industry, which has emerged as a vital segment of the country's economy, demonstrating robust growth with its diverse applications across various sectors. An industry with a market size of 3.5 lakh crores has the potential to reach 10 lakh crores by the year 2027-28.

OPPORTUNITIES AT *Indplas*[®]'25

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The exhibition will feature several seminars on various topics, including the environment and recycling, opportunities in various plastics sectors, skill development, and government policies and subsidies.

Power Behind The Show -



AMI conference on underground pipes in Florida

Polyethylene pipes have been in use in North America since the 1950 when they were introduced in the oilfields. Discussion was reging at the recent AMI conference on polyethylene in underground pipes, Which took place in Florida.

Dr. Gene Palermo reviewed the issues for the industry including rapid crack propagation (RCP), which is a fast fracture of around 200 m/second with a sinusoidal path. The factors involved include internal pressure, wall thickness, temperature, pipe processing and material. ISO 4437 is a standard for PE gas pipes incorporating RCP. The American Gas Association requested that this be included in the ASTM D 2513 standard.

According to the Plastic Pipe Institute, there are 0.5 million miles of US water transmission pipes and 0.6 million miles of wastewater systems. The cost of replacing one mile of water mains in around \$ 56,400 compared to \$ 24,600 to repair (data from Corpro Co.). There is a massive benefit in the carbon footprint of projects using trenchless technology (around 90%), partly due to the minimal traffic disruption and the shorter project duration, Costing of a sewer replacement project in the city of Troy gave around 25% savings using trenchless technology.

There is an urgent need or rehabilitation of water mains pipes. An average US city loses 17% of its potable water and this is still a priority for state runding. Insituform Technologies has reviewed the options including thght-fit HDPE, polyester reinforced PE and cured - in - place piep (CIPP). Over 25,000 miles of CIPP has been installed in the last 38 years. There are two types of pipe liner - independent of the host pipe, and interactive (reliant on radial support from the outer pipe).

The American Water Works Association (AWWA) has four classifications of trenchless liner products: non-structural (cement of epoxy / PU lining), Semi-structural (CIPP, modified epoxy), and fully structural (sliplining, CIPP and polyester-reinforced PE). Insitumain is in the latter class and is suitable for potable pressure pipe rehabilitation. It has a PE inner layer surrounded by layers of epoxy reinforced with

polyester or glass fiber. In one project in Michigan there was a 61-97% increase in flow:the old iron pipe was cleaned and lined. HDPE ipe was used in a sliplining project-the pipe was temporarily shrunk during lining and then restored in site.

Trenchles technology is a key application for PE pipes from Chevron Philips Chemicals Co. Performance Pipe. 12,000 feet of 30 inch pipe was used to slipline an ageing iron pipe in Dallas. In King Country, 42 inch HDPE pipe was used to replace 30 inch concrete. ASTM F1962 covers directional drilling of PE pipe: one project in Fort Wayne used 37,000 feet of 6 and 8 inch pipe by horizontal direct drilling (HDD). The gas industry in the US has installed 526,000 miles of polyethylene mains pipe.

Sanitary sewer overflow is mainly due to pipe breakage or blockage. 70% of US sewerage pipe is now rehabilitated using trenchless technology. Ultraliner has used PVC and PE pipes in sliplining - the advantages are cost efficiency and minimal disruption, the disadvantages can include a reduced flow.

A folded PE pipe can be placed inside an ageing pipe and then unfolded in situ: this is still quite rare in North America. Spiral wound PVC is used for pipe sizes ranging from 24 to 108 inches. HDPE grout-in-place pipe liner ranges from 8 to 144 inches: sheets are pre-manufactured and the grout quality is checked on site.

Solid wall HDPE pipe can be butt fused up to 63 inches in diameter according to KWH Pipe, and profile wall or solid wall pipe can be joined by hand held extrusion welding up to 132 inches diameter. Plastic pipe is very lightweight: 163 feet of 60 inch Weholite pipe weighs in at less than 15,000 pounds. It has a low resistance to flow so even in sliplining flow can increase. Corrosion resistance is another benefit. Appications for large diameter pipe include sanitary sewer, canal enclosure, hydroelectric power and relining.

L y o n d e l l B a s e l l h a s collaborated with KWH Pipe in producing pipes suitable for a nickel mine in Finland. PE 100 was used because of its resistance to cold, chemical resistance against 10% sulphuric acid, good flexibility, wear

behaviour and weldability.

Hostalen CRP 100 black was used for fresh water and solution transport. Irrigation pipe was made from LLDPE and corrugated drainage pipe was constructed from PE-HD.

Univation Technologies has a new HDPE material for pipes, single-reactor bimodal PE-100. It has worked with Qenos in Australia to produce this material, which has been tested in pipe up to 900 mm in diameter.

Polybutylene (PB) pipe was tested for lovegity using standard methods and marketed with a 50 year lifespan: failures were mainly due to shear at fitting (67%) with 7% each for longitudinal and circmferential split. The main cause appeared to be oxidative degradation. The University of ilinois has been examining faulure of underground pies. The three main causes are: ductile failure at high stress, brittle fracture at intermediate stres and nvironmental stress cracking.

The researchers have concluded that extrapolation of accelerated aging can be misleading and need to be comibed with field experience to generate realistic lifetime predictions. The Polymer Competence Centre Leoben has examined failure behavior of pressurized PE pipes and lifespan. Slow crack growth was the main cause. It has looked at new test methods to get results in a reasonable time from higher performance materials, quick material rankings can be obtained by cyclic fatigue tests.

Pipecoil noted that some of the top causes of HDPe pipe failure are due to joints: the material itself is only responsible for 12.5%. Risks can be reduced by cutting the number of joins (using longer pipe) and making sure that the pipe is round when it is fused. Pipe coilers and trailers have been developed to transport longer pipes and the company has equipment for straightening pipe using rollers on site.

In 2002 an attempt was made to integrate the higher performing PE100 grades from Europe into North America, where PE3408 was prevalent. The ASTM standards hadto be revised to include these new materials. In 2006 PE 3608/PE4710 was introduced to the north American



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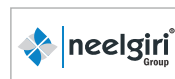


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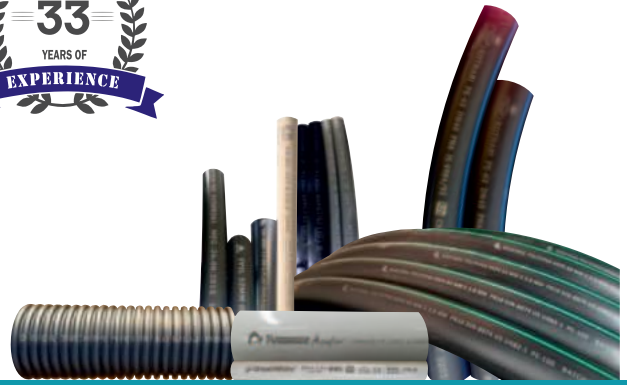


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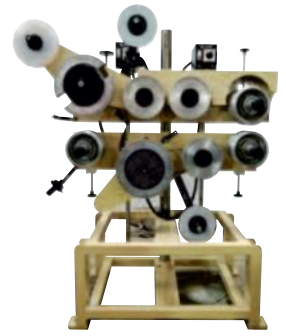


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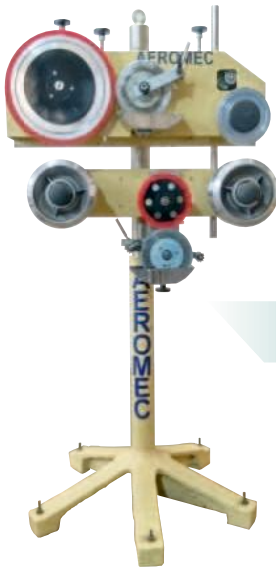
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Plastics Moulds & Tools

HEDRICK'S Dies & Tools in plastics the author of this article has written a number of technical articles on stamping die design and won a number of awards. He is active in metal stamping training and consulting worldwide he says

Throughout the last 28 years of my tool and die career, I have seen a plethora of dies ranging in size from a 20-station progressive die that you can hold in your hand to single-station dies that are 30 feet long. I have seen tools running as slow as 1 stroke per minute (SPM) and as fast as 1,500 SPM. I have seen dies made from solid carbide and dies made from materials just short of Elmer's glue and sawdust. Presses ranging from 1 to 50,000 tons, materials being stamped from gold to S-7 tool steel. Wow! What a ride!

I travel a great deal, so I see a lot. Some tools perform flawlessly, while otherwell ... let's just say they would make good boat anchors. Very simply, a tool's performance is based on many variables and factors. Items such as the press parameters, the cutting and forming lubrication, as well as changes in temperature are a few basic factors that affect stamping process success. Following are three deadly tool design sins to avoid.

Assuming You Know Your Stamping Material

Knowing as much about the metal that you are trying to cut and form is very beneficial. Literally thousands of different types of ferrous and nonferrous metals are available today. Each type of metal has its own special behavioral characteristics. Stamping materials such as titanium and gold is not common. I usually tell my seminar attendees this: In order to process, design, or troubleshoot sheet metal successfully, you must first think like the metal. For example, if you think like low-carbon, draw-quality steel and are trying to form aluminum, you will have problems. Not that aluminum is bad, it's just different. If you are processing a part that requires a great deal of stretch or draw ability, don't attempt to process it with insufficient data. For example, don't be satisfied with knowing only that the material is 1018 steel. Instead, find out the material's tensile and yield strengths, as well as its elongation percentage and, whenever possible, its average n and r values.

Find out if the metal is coated or pre-painted. If it is a nonferrous metal, find out if it is full-hard, dead-soft, or half-hard. Also, if the metal is to be drawn, determine

if it is of drawing quality. Is the material a specialty advanced high-strength steel such as dual-phase or TRIP?

Knowing the material type will help you choose a suitable tool steel to cut and form it. Knowing your metal's characteristics also will help you to determine if it may be necessary to anneal the parts between forming operations. Higher-strength metals exhibit more spring back. Knowing if your metal is high-strength can lead you to add extra stations to compensate for spring back issues.

Avoid building common tools to form a wide variety of different metals without changing the die.

In addition, pay close attention to the metal thickness. Thick metal stretches more than thin metal. Why? There is more metal too stretch. It's a volume thing. Nothing is more difficult to stretch or draw than thin, high-strength metal. Thin metal does not resist buckling and wrinkling as well as thicker metals. Thick metal is inherently stiff, so it resists buckling much better. Very deep-drawn parts made from thin, high-strength metal often require multiple drawing operations. To get an idea of what I mean, imagine drawing a sheet of aluminum foil into an oil pan. Ouch!

Assuming You Know the Press

Making assumptions about a press is a major sin. Just recently I had a client who was attempting to run a progressive die that was designed to deep-draw a stainless steel cup. He encountered major splitting problems. Why? Although the press had adequate tonnage and bed size, its ram speed (velocity) was way too fast for deep-drawing applications. The press was engineered for blanking, not deep drawing. Much to the client's disappointment, the die will never run in that press. The die designer never asked what type of press would house the die. A grave mistake

You must consider many factors when selecting a press for a die. For example, just because it takes 100 tons to deep-draw a large part doesn't mean that you can safely place a die in any old 100-ton press. Careful consideration must be given to the available tonnage during the stroke. For instance, a 400-ton crank-drive press with an 8-in. stroke may have only 150 tons available 3 in. from the bottom of the stroke. If the part that you are attempting to draw is 3 in. tall, you need enough tonnage to form and control the metal flow 3 in. from the bottom of the stroke. You may not have the available force needed at that point. The possible

result? Boom! A broken press.

Pay attention to the ram speed of the press. Draw-link drive, servo, and hydraulic presses are best-suited for deep-drawing applications, while faster presses often are suitable for cutting and bending applications.

It is the die designer's responsibility to engineer a tool that can perform in the client's press. If the client does not have the proper press for the tool, the designer should inform the client that he is undertaking a great risk by installing it in the press (Figure 1).

Ignoring Part Tolerancing

Tight tolerances require a greater amount of precision to be engineered into the die. Keep in mind that just because a part has been designed with a very tight critical tolerance does not mean that the part can be stamped to the specified tolerance. I have seen parts with specified tolerances that would be literally impossible to achieve in a stamping die. Generally speaking, with the exception of dies that resize the metal's thickness, avoid making parts that have tolerances less than the metal's thickness.

Also keep in mind that the incoming metal will differ slightly from coil to coil. Remember, regardless of how well you process the part and how precise the die was built, the incoming metal will not be consistent, and variability in your parts will exist.

Don't make assumptions regarding the part tolerance. Avoid processing parts with unrealistic tolerances

Watch for critical trim line tolerances. Formed parts with close trim line tolerances usually require trimming the part after the part is completely formed. This adds more stations to your die. In addition, look for surface requirements such as Class 1 or A surfaces. These stringent surface requirements usually inflate the tooling cost and increase the time spent metal finishing the forming die sections.

When sheet metal meets physics, physics always wins. Don't try to defy the physical limitations of the metal that you are forming or cutting.

Art Hedrick is president and senior consultant of Dieology, 8579 River Oak Circle, Greenville, MI 48838, 616-225-2170, www.dieology.com.

Author of the "Die Science" column in STAMPING Journal®, Art also has written technical articles on stamping die design and build for a number of trade publications. A recipient of many training awards, he is active in metal stamping training and consulting worldwide.

“Free Compound For Metal Vacuum Seals”

The market for PVC-free closures has undergone enormous growth in recent years. And requirements have become increasingly more detailed. Of the 16 billion Twist-Off seals currently used in the EU, at least 20 percent are now PVC-free – with an annual growth of approx. 30 percent. Numerous high-performance plants have been installed which are capable of covering the growing demand in Europe.

More and more manufacturers of seals have also invested in PVC-free technology with the result that the available capacities are continuing to grow. A further increase to more than five billion Twist-Off seals is anticipated in 2022.

Softer and more thermally stable, this is how the new PROVALIN 1242 is presented by Actega as a successor to PROVALIN 1241, the PVC- and plasticizer-free compound for metal vacuum seals, which has already been successful on the market for the past ten years as a standard compound for pasteurization of all types of goods. This more thermally stable and softer compound speeds up embedding on the glass neck while reducing the risk of cut-through.

In the course of this development and the increasing demand for PROVALIN 1241 in particular, a wide range of different capping machines with various capping conditions is now available on the market, some of which make different demands on the compound used, e.g. because faster machines are used, various steam pressures or capping forces are present, etc. Permissible tolerances in the glass neck dimensions, as well as the overall container (such as overall height, axial deviation, etc.), can also result in different processing behavior during the capping process.

The newly-developed PROVALIN 1242 meets these new requirement profiles, as it has a higher resistance to mechanical and thermal stress and is softer compared to PROVALIN 1241. Capping requires pre-dampening of the closures, i.e. the glass and the closure are brought together in the machine head in a controlled vapor atmosphere.

On the one hand, the steam creates an initial vacuum. But it also causes a softening of the sealing compound in the closure, which becomes visible in a permanent impression of the glass mouth after closing and reopening, depending on the temperature effect and time. This embedding of the glass mouth in the sealing compound over the full circumference ensures the tightness of the packaging system during its shelf life. That said, a deviation during vapor deposition can have negative consequences.

If the preheating is too low, which can occur with very fast sealing machines, for example, this can lead to an insufficient impression of the compound and insufficient embedding on the glass mouth. This, in turn, harbors the risk of vacuum loss.

In the case of excessive preheating, which can happen when the closing process is interrupted, for example, there is a risk of the compound impression being too high, which can then cause cut-through. Accordingly, a compound is required that displays a higher degree of softness accompanied by a higher degree of thermal stability.

The fact that PROVALIN 1242 is softer, thereby permitting faster embedding on the glass neck finish (this is necessary for faster capping machines in particular), as well as displaying a higher degree of thermal stability enabling the

use of higher pasteurization temperatures and minimizing the risk of cut-through, has been proven in various test set-ups.

The glass jars were sealed with variants of sealing force and steam pressure (without post-treatment), whereby worst-case scenarios were also included in order to underline the performance of the compounds. The results show that even in the worst-case scenario, the residual thickness of PROVALIN 1242 remains within an acceptable range. The opening values were also examined and show that they are at a good level for both PROVALIN 1241 and 1242.

Conclusion

With its significantly extended processing window, PROVALIN 1242 offers the following benefits: Easier changeover on the capping lines, as PROVALIN 1242 behaves similarly to PVC during capping. A significantly reduced risk of cut-through, even in a worst-case scenario. A broader thermal treatment range for pasteurization up to 98 °C. A softer compound for faster embedding on the glass neck finish – particularly for faster capping machines.

Accordingly, Actega has once again proven itself to be a pioneer in the development of both sustainable and practical solutions. PROVALIN was developed on the basis of corresponding EU specifications (EU 10/2011 and PIM), for example. Where the original focus was on food with fatty contents as they leach out the plasticizers usually contained in PVC sealing compounds and allow them to migrate into food, fillers of organic products attaching particular importance to an ecological overall package changed over to PVC-free at an early stage.

Engineering The Largest Sector

By : Deepa Shergill

Much has been said written about the engineering sector. It is matter that concerns as all. The largest sector in overall employs over 4 million skilled semi skilled workers (Direct / Indirect) by 2020 it's services will be \$ 40 billion.

Engineering sector is a diverse industry with a number of regments & can be brodly categories in to two segment heavy & light engineering segment.

The heavy engineering goods accounts for bulk of the engineering goods production in India. Most of the leading players are engaged in the production of heavy engineering goods and mainly produce high-value products using high end technology.

Requirement of high level of capital in vestment poses as a major entry barrier. Consequently, the small and unorganized firms have a small market presence.

The light engineering goods segment, on the other hand, uses medium to low-end technology. Entry barrier is low on account of the comparatively lower requirement of capital and technology. This segment is characterised by the dominance of small and unorganised players which manufacture low-value added products. However, there are few medium and large scale firms which manufacture high-value added products. This segment is also characterized by small capacities and high level of competition among the players.

The major end-user industries for heavy engineering goods are power, infrastructure, Steel, cement, petrochemicals, oil & gas, refineries, fertilizers, mining, railways, automobiles, textiles, etc. Light engineering goods are essentially used as in puts by the heavy engineering industry.

INDIAN ENGINEERING SECTOR'S GROWTH

The engineering sector in India has been growing on the back of growth in the user industries and several new

projects being undertaken in various core industries such as railways, power, infrastructure, etc. Capacity creation in sectors such as infrastructure, oil & gas, power mining, automobiles, auto components, steel, refinery, consumer durable, etc, is driving growth of the engineering industry.

India being preferred by global companies as an outsourcing destination as it enjoys lower labour cost and better designing capabilities. Engineering off-shoring services

India can stretch the off-shoring industry further to tap the \$750 billion-a-year global engineering services industry. The country, which enjoys a strong position in the automotive and high-tech telecom engineering services market with expected earnings of \$25 billion by 2020, can nearly double it, according to a latest industry report. Aerospace offers the greatest potential for expansion, though it is one of the toughest opportunities to tap because of its close association with the defense sector.

Engineering series are a \$40 billion opportunity for India by 2020. The total offshore engineering spend is expected to grwo to \$150-\$225 billion by the year 2020. and India with its talent pool and existing experience in engineering services, is well suited to realize 25 percent of this opportunity. Engineering services off shoring presents a tremendous opportunity. It will not only generate significant revenues but will also place India on the global innovation map. It is however very important to emphasize the need for training and retaining talent, which is critical to the country maintaining its current advantage.

FUTURE OUTLOOK

Demand in the engineering sector is expected to remain healthy primarily on account of the Government's increased thrust on infrastructure development. The continuing growth of the manufacturing sector and favorable regulatory policies

would provide further boost to the sector's growth. Fresh investments in the power equipment, metals, oil & gas, and petrochemicals industries, coupled with robust industrial activity is expected to drive the growth momentum in the capital goods industry in the near term.

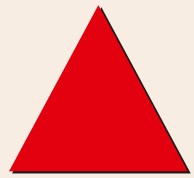
Emerging trends such as outsourcing of engineering services can provide new opportunities for quantum growth. Engineering and design services such as new product designing, product improvement, maintenance and designing manufacturing systems are increasingly getting outsourced to countries like India. India's engineering sector has a significant potential for future growth, both in manufacturing as well as services.

The Engineering Process Outsourcing market in India has the potential to exceed US \$ 40 billion by 2020. To tap this EPO market all the important stakeholders, including the Government, academic institutions, service providers and trade bodies will need to boost investments in infrastructure and improve marketing efforts.

Although one of the oldest career options; engineering still remains the choicest career option among the youngsters. It is a professional full of challenges where creativity and ingenuity know no limit or boundaries. This is one profession which can make you explore the depths of ocean and take you to as far as the outer space.

By the large, engineering being their career with an impressive salary package, and their remuneration varies considerably from one organization to the other. However, an IITian is offered a significantly higher pay package as compared to graduates from other government / private colleges. With experience and time, the remuneration increases manifold.

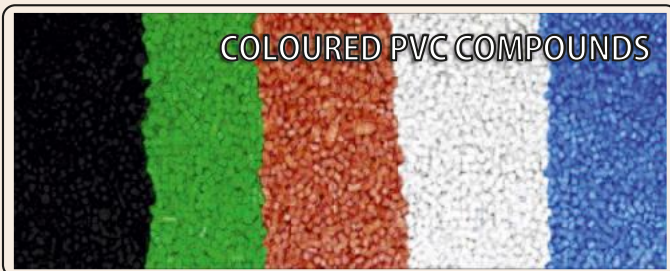
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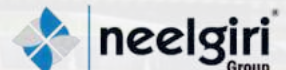
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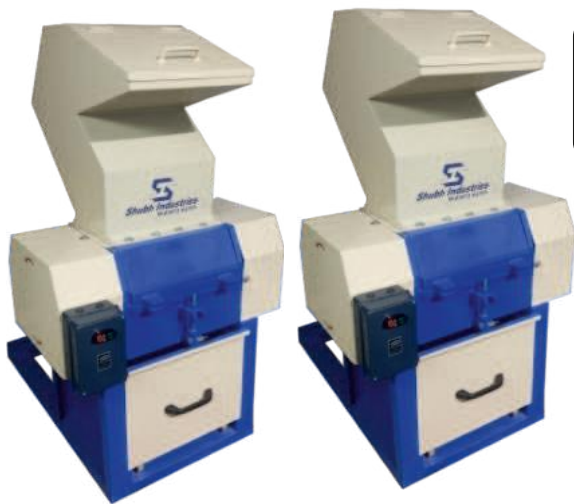
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24 Inch Pipe Plastic Scrap Grinder Machine

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Mfg. & Exporter : Toggle Action Clamps

Since 1986



Chamunda®

EQUIPMENTS

Ahmedabad, Gujarat, INDIA

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75 kg



CE-4SA-SS
75 kg



CE-8RB
50 kg



CE-8TB
50 kg



CE-SA-J
75 kg



PA-5SQ
125 kg



CE-2U
75 kg



**CE-3TR with
Locking**
75 kg



CE-11SA
100 kg



Pull Action Clamps

CE-H Series Heavy Duty

CE-1H



CE-2H



CE-3H



CE-4H



CE-PS



**CE-2H-TL
Trig
Locking**



Pull Action Clamps

CE-PS-J



CE-V



CE-1PA / CE-2PA



CE-1DA



Horizontal Handle Clamps

CE-10TA



CE-10TA-SA



CE-3U-PA



CE-5U-PA



Mould Clamping Accessories

**GOOSE NECK
CLAMP**



**FLAT STRAP
CLAMP**



T-BOLT



**Clamping
Stud**



**Clamping
Stud with
Hex**



FLANGED NUT



M12 to M24

"T" NUTS



M10 to M20

**RHOMBUS
T-NUT**



M10 to M36

TGP

Fabricated Forging

Model No.	Holding Pressure
TGP-6	100 kg
TGP-8	200 kg
TGP-10	300 kg
TGP-12	500 kg



CHAMUNDA EQUIPMENTS

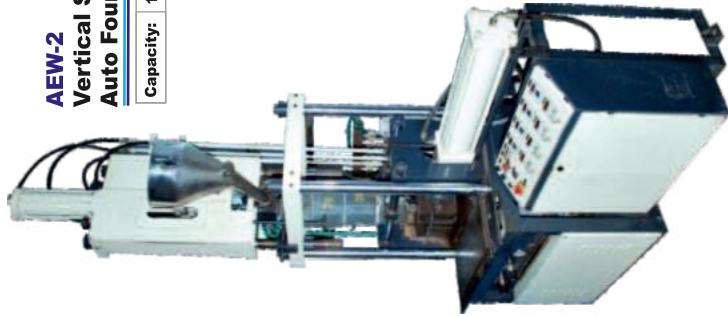
Unit-1: Sabarmati Textile Estate, Opp. Rajdhani Bungalows,
G.S.T. Road, Nr. Vastupal Steel, New Ranip, Ahmedabad-382480.(Guj.)India.
Unit-2: 18, Shree Ram Ind Estate, Opp. Shah Alloy Steel, Santej-Khatraj Road, Santej,
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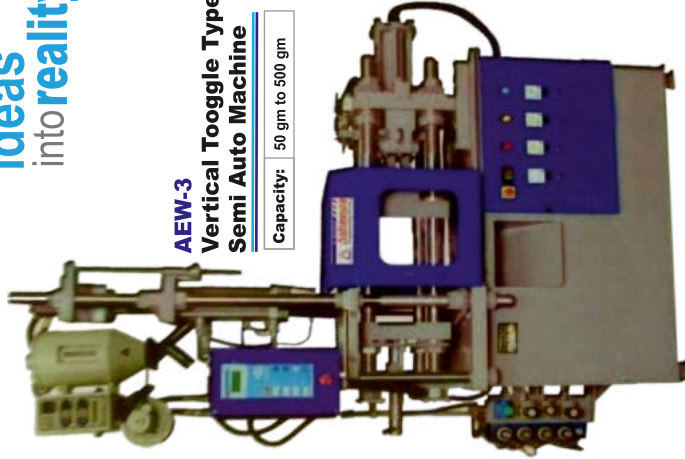
AEW-2 Vertical Semi Auto Four Pillar

Capacity: 150 gm to 1 kg.



AEW-3 Vertical Toggle Type Semi Auto Machine

Capacity: 50 gm to 500 gm

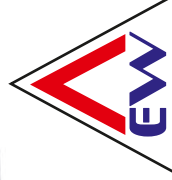


AEW-5 Horizontal Injection Moulding Machine

Capacity: 50 Ton to 400 Ton



Mfg. of: Injection Moulding Machines.
 (Vertical / Horizontal Screw Type
 Semi Auto and Automatic)



AEW-1 Vertical Toggle Type Semi Auto Four Pillar

Capacity: 30 gm to 500 gm



AEW-4 UPVC Vertical Semi Auto Machine

Capacity: 150 gm to 1 kg.



AEW-6 Vertical Insert Moulding Machine

Capacity: 30 gm to 500 gm



Technology With the Machine

- Open Loop Hydraulic System With Variable Piston Pump for the Power Saving Up to 30%.
- Electro Proportional Valve for Fine Controls of Pressure & Flow.
- PLC Based 12-Line LCD Screen Displayed Microprocess Controller For Perfect Operation.
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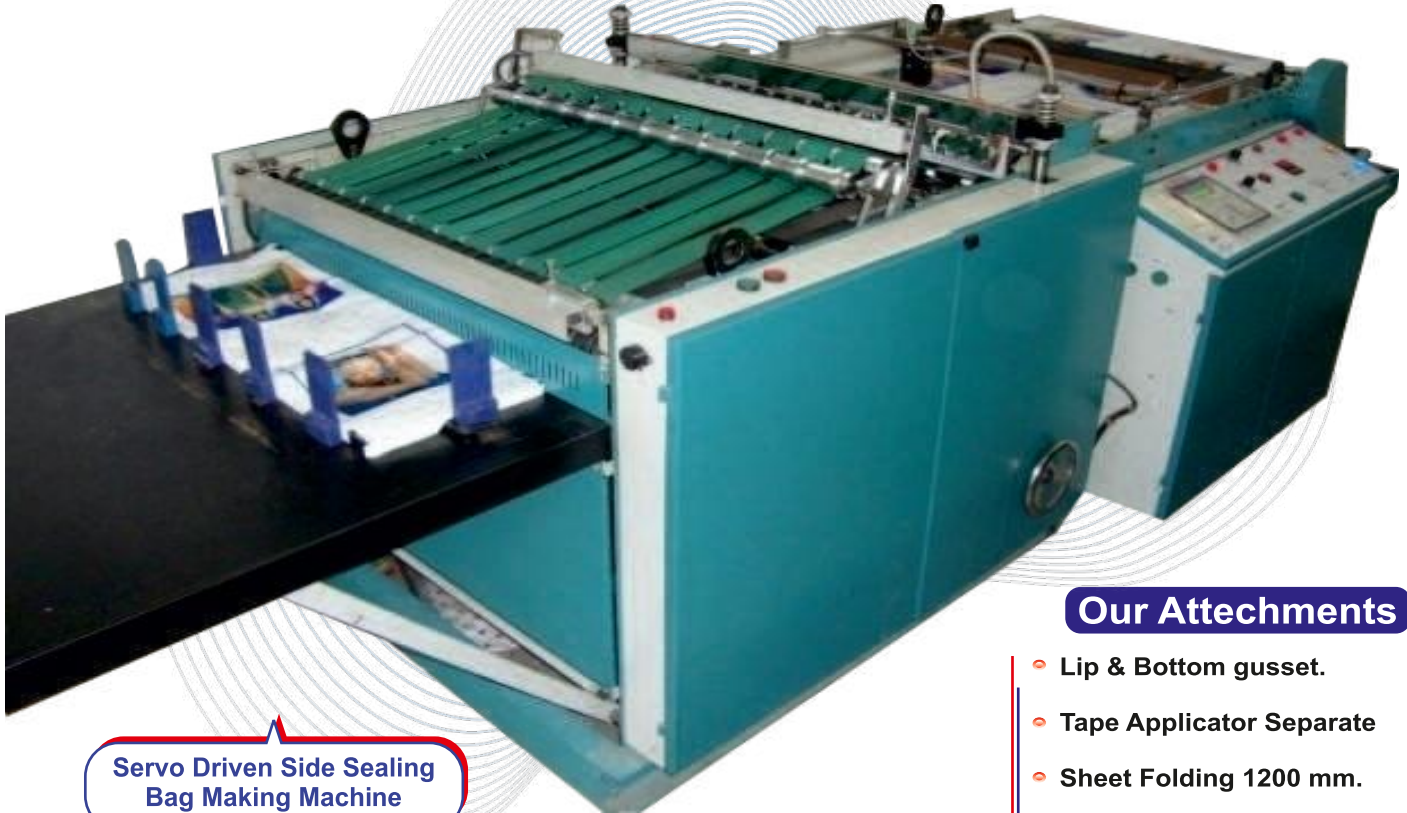
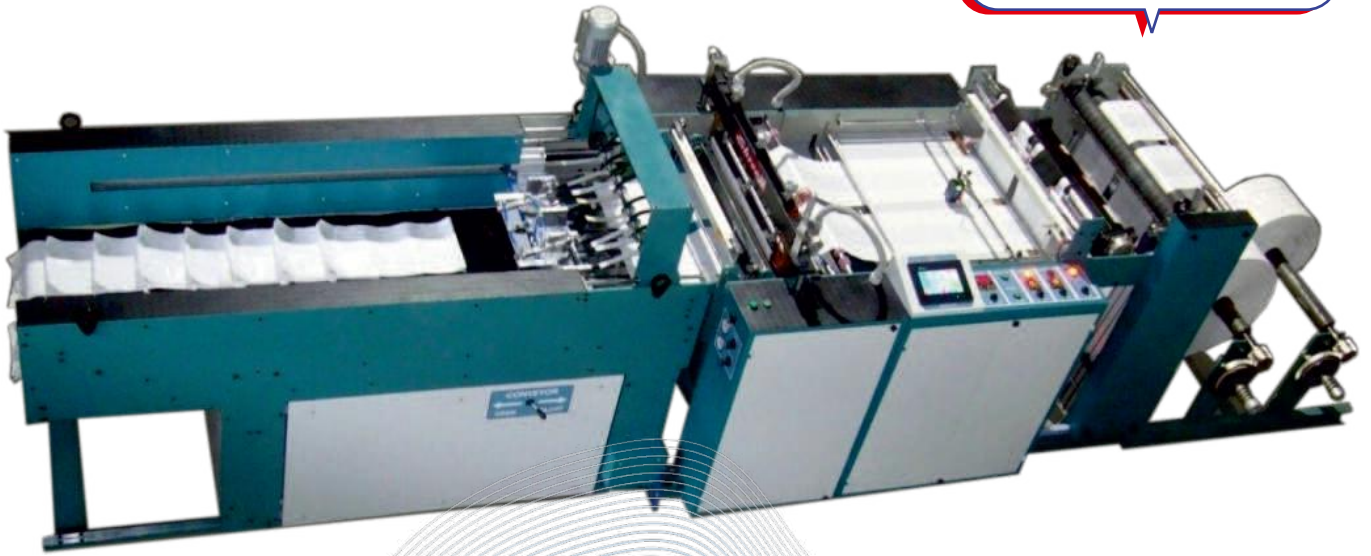
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Servo Driven Side Sealing
Bag Making Machine

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- High Speed Side Seal Bag Making Machine For Plain Bags
- High Speed Bottom Sealing Machine For Printed Bags
- Double Decor Bottom Sealing Machine
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Our Attechments

- Lip & Bottom gusset.
- Tape Applicator Separate
- Sheet Folding 1200 mm.
- Sheet Folder 650 mm.
- Pneumatic Single Punch Hole
- Pneumatic Seal Station
- Doted Sealer for BOPP
- Perforation Sealer
- Center Perforation (Continuous)
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- Winder Attach
- Knurling Seal Staion

**Bottom Seal Servo Driven
Machine**



Shreeji Machine

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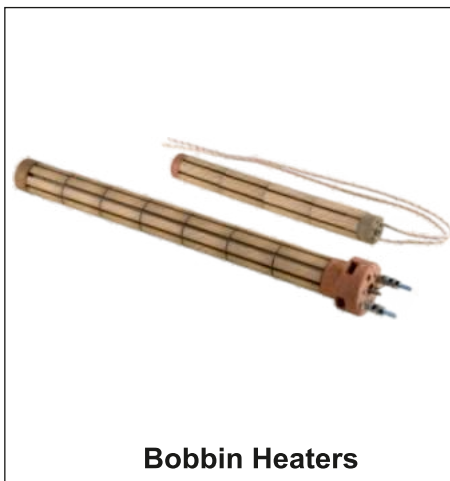
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INTRODUCING

Twin Screw Conical Extrusion

APPLICATION

PVC profile / WPC Profile,
PVC Form Board Sheet



Twin Screw Pipe
Extrusion



■ Die Head



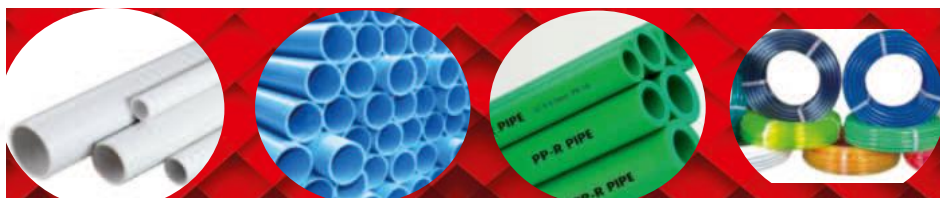
■ Vacuum Sizing Tank



■ Tube / Pipe Traction Unit



■ Tube Auto Cutting



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Email: kishanengineering@gmail.com , Saleskisanengineering@gmail.com

Web: www.kisanplasticmachinery.com

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■ Profile Die

Twin Screw Conical Profile Extrusion



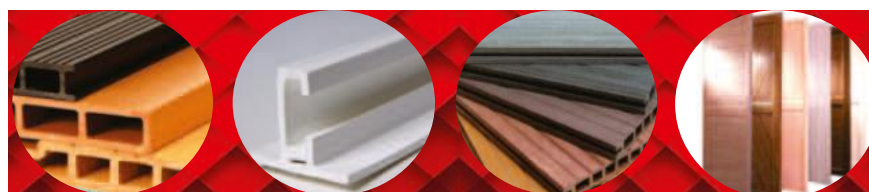
■ Vacuum Calibration Table



■ Hydraulic Haul Off



■ Profile Auto Cutter



Manufacturer of:

PIPE EXTRUSION RANGE

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- TWIN SCREW EXTRUSION (PARALLEL & CONICAL)
- HDPE/LDPE/PPR/GARDEN PIPE & GRANULES SINGLE SCREW EXTRUSION

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ABA Blown Film Plant



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ABC Die Rotating Blown Film Plant



PRODUCT RANGE OF RUDRA

ABA Three Layer Blown Film Plant
Mono Layer Blown Film Plant
Two Layer Blown Film Plant
ABC Three Layer Film Plant
Stretch Blown Film Plant

HM HDPE Film Plant
Mulching Film Plant
Box Taping Plant
Recycling Plant
Sutli Plant

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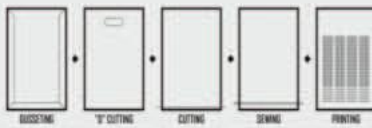
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ABC Three Layer Film Plant	Recycling Plant
Stretch Blown Film Plant	Spun Plant

ABC Die Rotating Blown Film Plant



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Twin Screw Conical Extrusion

APPLICATION
PVC profile / WPC Profile,
PVC Form Board Sheet



Twin Screw Pipe
Extrusion



Die Head



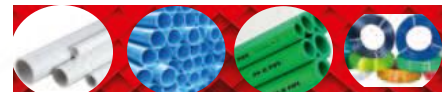
Vacuum Sizing Tank



Tube / Pipe Traction Unit



Tube Auto Cutting



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- High Output
- Low Power Consumption
- Spiral Die Head for Uniformly Flow
- Helical Gearbox with Thrust Bearing
- Gas Nitride Screw Barrels
- AC Drive Operated Motors
- Rotary Die Head for Gauge Randomization
- Bubble Control System

APPLICATIONS

- Packaging Films
- Grocery Bags
- Garbage Bags
- Liner Bags
- Nursery Bags
- LD Milk Pouch
- Mulching Films
- E-commerce Bags

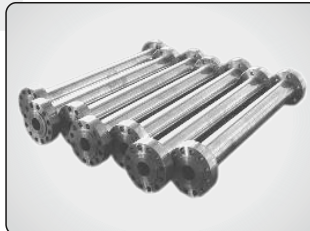
Plastic Extrusion Machinery Spares
(Specialist in Extrusion Screw Barrel)



Candle Filter



Blown Film Die



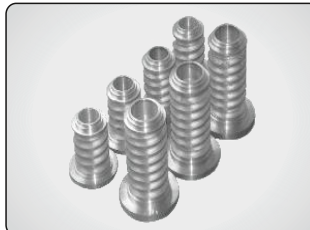
Extruder Barrel



Extruder Screw Barrel



Extruder Screw Barrel



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Perfection
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BIO-DEGRADABLE
Carry Bags
Plant Set-up

APPLICATIONS

- Packaging Films
- Grocery Bags
- Garbage Bags
- Liner Bags
- Nursery Bags
- LD Milk Pouch
- Mulching Films
- E-commerce Bags

» FEATURES

- Space Saving Model
- High Output
- Low Power Consumption
- Spiral Die Head for Uniformly Flow
- Helical Gearbox with Thrust Bearing
- Gas Nitride Screw Barrels
- AC Drive Operated Motors
- Rotary Die Head for Gauge
- Randomization
- Bubble Control System

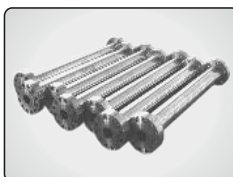
Plastic Extrusion Machinery Spares (Specialist in Extrusion Screw Barrel)



Candle Filter



Blown Film Die



Extruder Barrel



Extruder Screw Barrel



Extruder Screw Barrel



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