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INTERNATIONAL PLASTICS EXHIBITION & CONFERENCE

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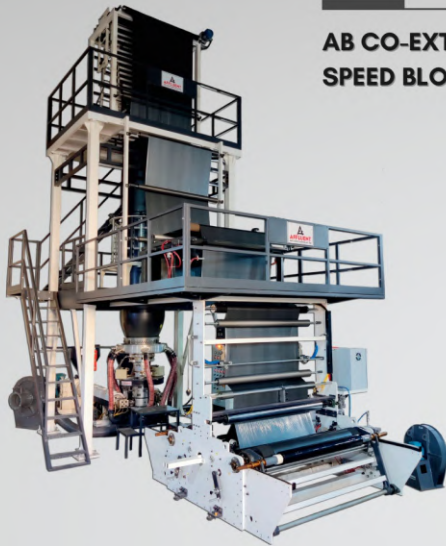
APPLICATION

LAMINATION FILM
FOOD PACKAGING
MULTICH FILM MAKING
CONSTRUCTION FILM
CONSTRUCTION SHEETING

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



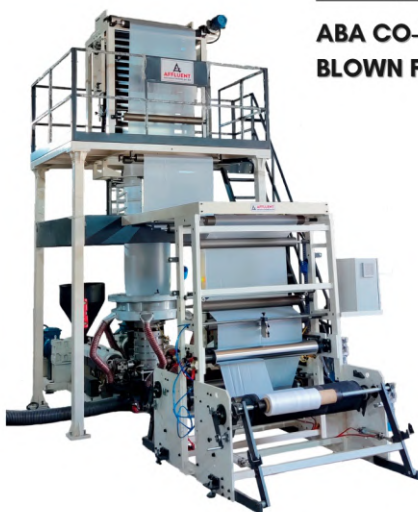
MONOLAYER HIGH SPEED BLOWN FILM MACHINE

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,
LLDPE, Masterbatch,
CaCO₃

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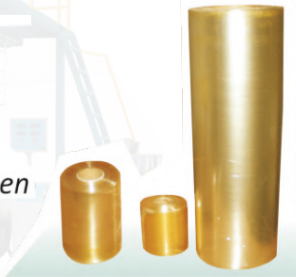
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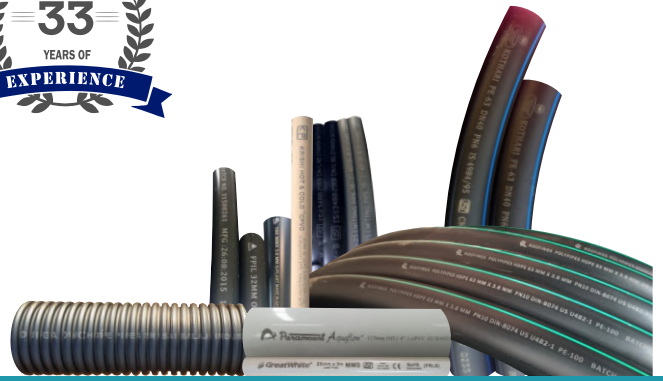
Cables

Tarpaulin

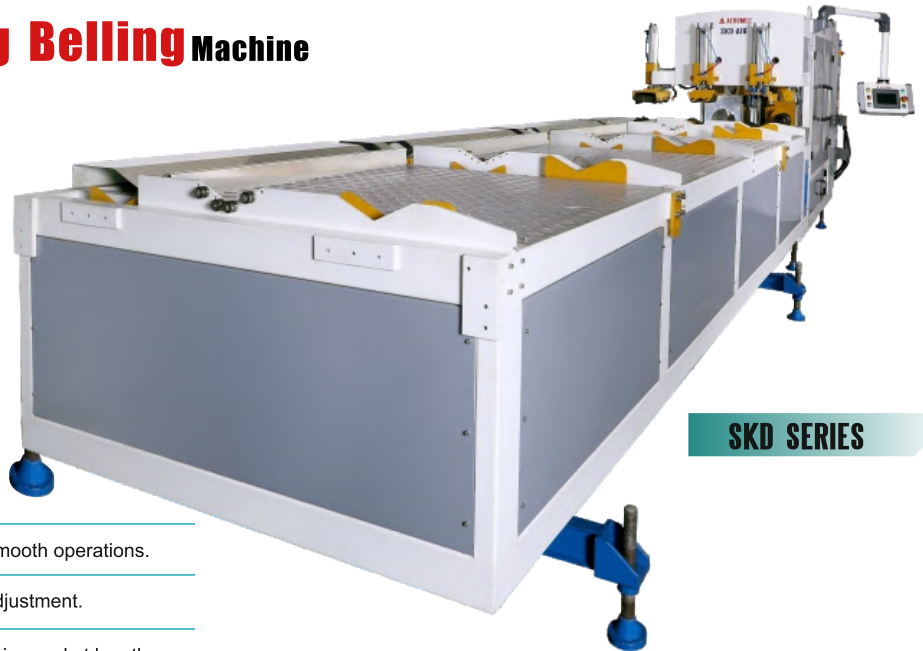
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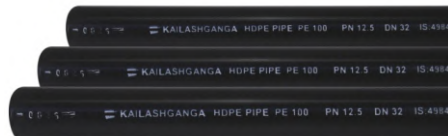
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AMC-210



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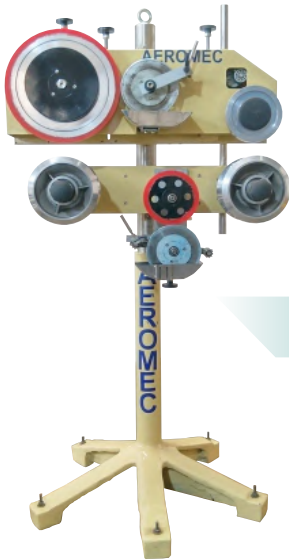
AMC-650

AMC-707

AMC-210D



Online PVC Roto Gravure Ink Marking Machine For



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Marking

AMC-210Ink+B

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Marking



CONSUMABLES

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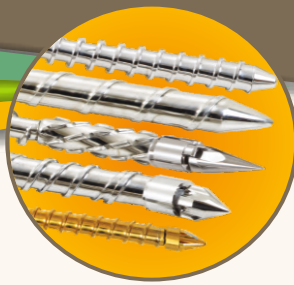
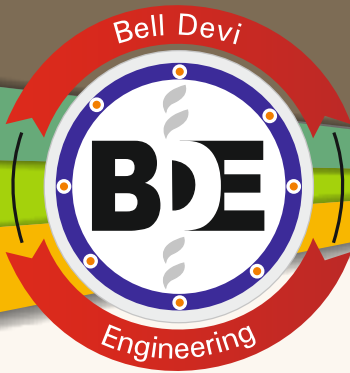
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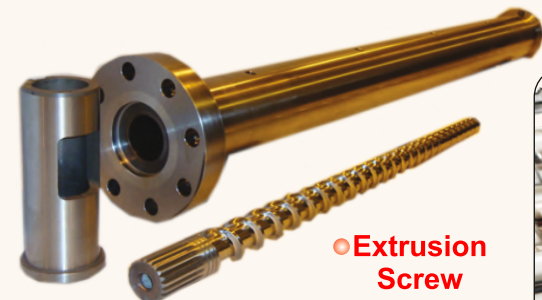
◉ Extrusion Twin Screw & Barrel



◉ Injection Molding



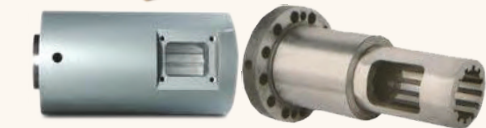
◉ Blow Molding Screw



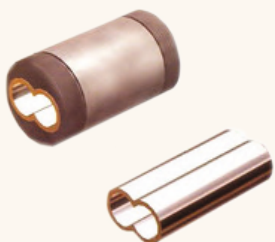
◉ Extrusion Screw



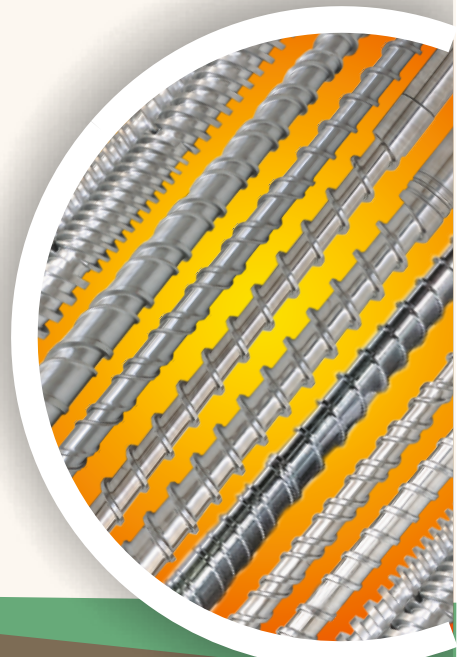
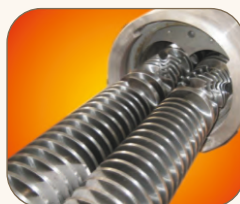
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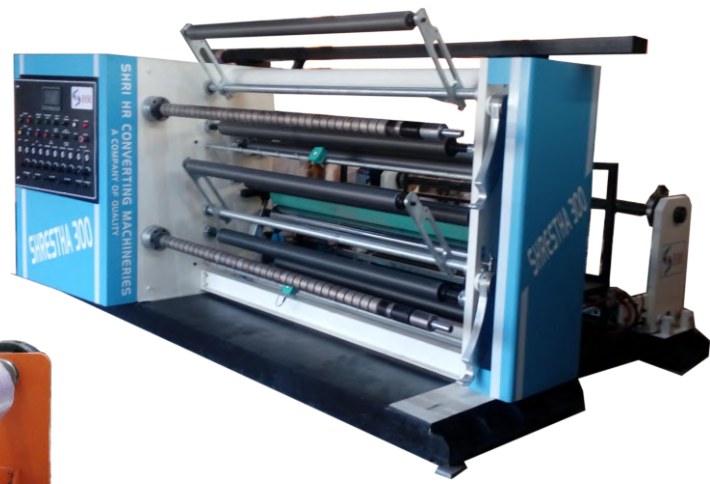
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Mini Slitter Cum Doctoring Machine

Editorial



CONFLICT NECESSARY FOR CREATIVITY

When M. K. Gandhi was thrown out of a train in South Africa he had choice to make- either to ignore the event and live in peace or enter into conflict and face harassment, hardship and the possibility of getting physically hurt. He chose the latter. Why? Did he not have a guru who had taught him that living in peace and tranquility was the ultimate objective of life and the best way to achieve this objective was to avoid situations of conflict? Why did he not walk away live? Dalai Lama chose to live in exile rather than to live in peace in Tibet. He is a spiritual master himself. He preaches peace around the world. Does he know that living in peace requires avoiding situations of conflict?

Aung San Suu Kyi did not have to stay in the jail. Winston Churchill did not have to join the World War. Nelson Mandela did not have to suffer to suffer in Solitary confinement. Julius Nyerere did not have to fight a war with Idi Amin. There is a long list of people who have embraced conflict despite standing for peace, otherwise. They had the courage to standup against repression rather than submit to it.

Both the Ramayan and Mahabharata, revered Indian epics, are stories of war, not peace. Krishna did not tell the Pandavas to ignore the incident of Draupadi's humiliation in the court. He encouraged them to go for war. The Gita says engaging in war to uphold truth is not a matter of choice of a warrior; it is his duty. Islam says participating in Jihad is the duty of a Muslim when the fight is to uphold justice when challenged by oppression, as a way of self-defence.

Most of us are confused between conflict and the method of resolving a conflict. We assume, incorrectly, that Gandhi, as a peace-loving person, must have situations of conflict. On the other hand, he faced conflict head-on. Bhagat Singh and Gandhi were both gearing themselves to deal with conflict, except that Gandhi tried to employ peaceful means while Bhagat Singh chose aggression.

The duty of a scientist, artist or professor is also to engage in conflict against repressive regimes of knowledge. Any kind of limited knowledge is a form of bondage. Albert Einstein advanced the boundaries of scientific knowledge. James Joyce did the same in the world of literature. He flouted rules of writing as he saw them as restrictions on creativity. Picasso and M F Husain, for example, explored realms beyond accepted rules in visual art. Mother Teresa redefined the concept of caring. Every one of them faced criticism and controversy, yet they remained convinced of the nature of their work and the methods they used to fulfill their vision. They remained engaged.

One can only conclude from this that the people we admire and even those we worship have all rejected the existing as being adequate and have chosen to engage in conflict to expand the existing. They have refined the purpose of our life.

The purpose of our life is not to live in passive acceptance but to engage with conflict in order to creative. Creativity is the purpose of life. The purpose is to advance an individual soul and the collective consciousness. The only word of caution here is that we must first settle ourselves spiritually so that we know whether a conflict is justified or not.

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Plastfocus 2024

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Plastfocus 2024: Empowering the Plastics Industry to Achieve Sustainable Business Success

Revolutionise your business and accelerate growth at Plastfocus 2024 in New Delhi, India. This exhibition offers an unparalleled opportunity to explore the latest innovations, collaborate with experts and discover new business prospects that will drive your business forward.

Plastfocus 2024 is a processor's delight; providing a platform for businesses to showcase their products and services to potential customers and investors.

Plastfocus 2024 offers knowledge sharing on another level and helps gain valuable insights into industry trends, innovations and strategies, elevating your business to new heights.

This is not just another exhibition. Plastfocus 2024 is an all-around event with global eminence, with 18 countries visiting its last edition. The upcoming event, Plastfocus 2024, is expected to be 1.6 times its predecessor, providing exhibitors with an expanded network and greater exposure. Plastfocus 2024 is set to be spread over a sprawling 1,00,000+ sq. m., at the state-of-the-art centre IICC, Dwarka, New Delhi, 1st - 5th February, 2024.

The organiser of Plastfocus, Triune Exhibitors Pvt. Ltd., are renowned for their successful track record of hosting industry-specific exhibitions. Plastfocus is powered by the Plastics Machinery Manufacturers Association of India (PMMAI). PMMAI is dedicated to promoting the use of modern and efficient machinery to enhance productivity and profitability for the plastics industry and to increase global presence. The PMMAI's involvement with Plastfocus ensures that the exhibition is tailored to the needs of the industry and provides valuable insights into the latest trends and innovations in plastics machinery.

Understanding the needs of tomorrow, Plastfocus 2024 provides valuable insights, shares upcoming opportunities for start-ups and offers assistance from industry experts to improve your

offerings and establish a strong presence in the market. Experience the power of collaboration!

Stay ahead of the curve with the one-of-a-kind dedicated recycling zone, highlighting the exhibition's commitment to sustainable practices. Showcase your recycling technologies and products, and contribute to a better future for our planet and your business!

Take advantage of the significant opportunity for import substitution of plastics products, worth over Rs. 40,000 crores, and establish your presence in the market. Book your business presence now, as space is filling up fast, and sponsorship opportunities are closed. The space rentals continue to be the same as that for Indiaplast organised by PMMAI and Triune in 2019. This lowest cost to exhibit will only motivate you to take a larger booth space for a bigger impact on visitors!

From the launch event held in August 2022, Plastfocus 2024 will witness promotion at over 24 exhibitions worldwide, along with 27 roadshows that are planned to be organised within the country to reach remote locations relevant to the plastics industry. A truly relevant audience will thus adorn the bustling aisles of this much-awaited mega gathering...be there!

In conclusion, Plastfocus 2024 is an exhibition that every player in the plastics industry cannot afford to miss. The opportunities presented make it an excellent platform to showcase your products and services, gain valuable insights, and connect with industry experts. Join us in New Delhi and be part of the sustainable business success story!

Gain an overview of industry developments

A visit to Plastfocus will expose you to the very latest in technologies and developments in the global plastics industry. Recent manufacturing technologies, new products and processes, current techniques and trends will be on display for you to

explore and learn. Witness live demonstrations - watch machines and equipment at work to help discover ease of using an equipment, as you uncover its quality and speed of operation. This opportunity to get up to speed on where the industry is heading will help you generate new ideas for your business, find new markets and opportunities.

Innovate- Find solutions specific to your company needs

At Plastfocus, follow latest trends and innovations in the global plastics industry and keep yourself updated. Observe innovative new ways that greatly optimise time, resources, as well as operational costs that could spark ideas to streamline your own business processes. Plastfocus is a great place to look for specific products and service, and extend and deepen your knowledge with regard to:

New machines, tools and equipments

Current and upcoming technologies, transforming techniques, path breaking processes

Industry best practices and standards

Meet exhibitors one on one

Pre-schedule appointments, meet with the exhibitors one-on-one at Plastfocus and get a feel of the company culture through interactions. This will definitely aid negotiations even at a later stage. As thousands of international buyers and sellers assemble in one place at Plastfocus, explore and establish new relationships with a vendor or strengthen an existing one.

Network with other attendees- strategic business partners or prospective customers

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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 logevity 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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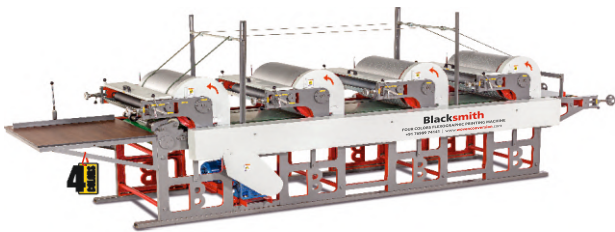
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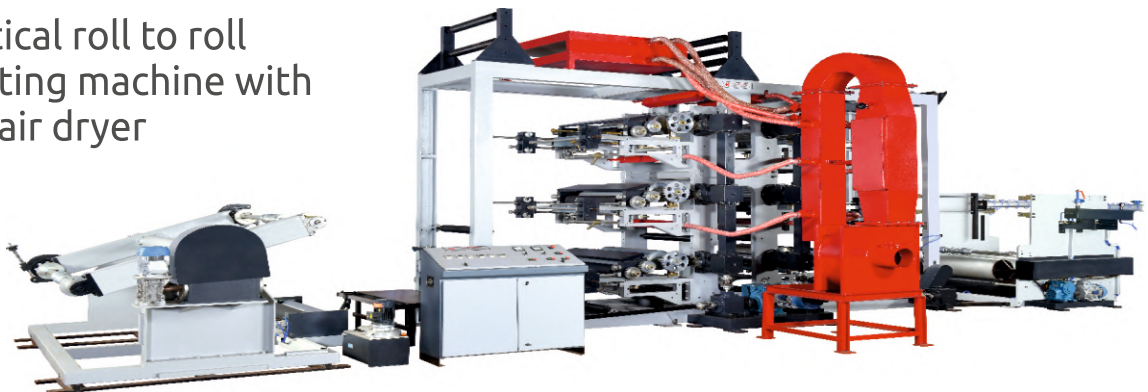


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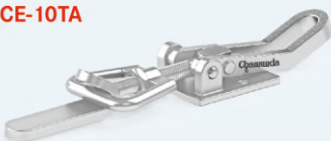


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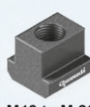


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M 12 to M 24

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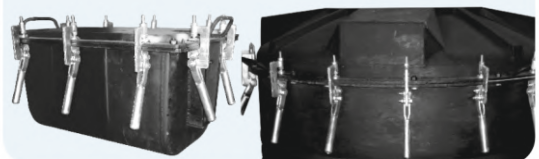
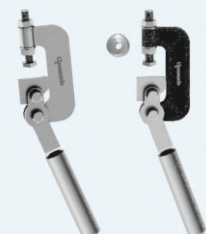


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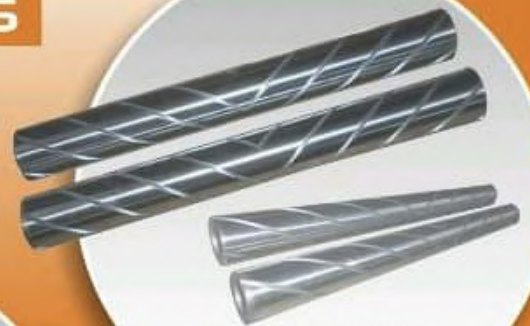
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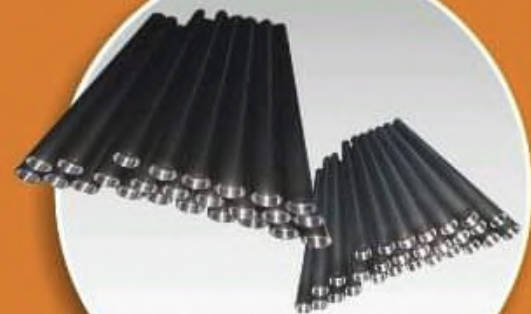
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GENTLY DOES IT - SKZ NOW COMPOUNDING WITH BUSS LABORATORY KNEADER

SKZ, a major German Plastics Center, located in Würzburg, has recently added a Buss MX 80 laboratory kneader to its stock of plastics processing machinery. Mid-September was the official handover of this oscillating single-screw kneader, making SKZ the first institution in Germany to have a Buss laboratory kneader with tour—flight technology. Typical applications include incorporating additives and high-efficiency homogenisation when producing plastics compounds, even with particularly shear- and heat-sensitive materials.

For Dr. Peter Heidemeyer, Managing Director R&D at SKZ, the MX 30 ideally complements the institutes existing compounding and extrusion machinery which includes various co-rotating twin screw extruders, a planetary roller extruder, a continuous kneading mixer and a twelve-screw co-rotating extruder. "This laboratory kneader provides us with cutting-edge kneader technology for a wide range of demanding processing tasks", explains Heidemeyer. "What makes this kneader so useful is its uniform shear rate and a slow temperature rise in the processing section which ensure extremely gentle processing. These two characteristics are typical of the combination of the reciprocating working principle with innovative four- flight technology. And thanks to the high free volume, we can incorporate large quantities of additives, such as halogen- free flame retardants,

conductive and other specially structured grades of carbon black, as well as other functional substances, uniformly distributed into the polymer matrix."

Heidemeyer is all the more pleased with the current expansion of his laboratory facilities because he is now able to meet existing demand from industry: "These possibilities are arousing very significant interest in particular among our medium-sized customers. We have already received enquiries about such processing trials and the associated thorough evaluation of the results." The new Buss kneader will of course also be used for SKZ's own research projects. Tests for entirely new applications are at the planning stage according to Heidemeyer and the kneader's split barrel is particularly advantageous: "This makes it possible for us also to carry out a visual evaluation of how tar processing has progressed in the individual zones of the processing chamber."

Dr. Andreas Kunzmann, Managing Director of Buss AG, emphasises the close cooperation with SKZ: "One major reason behind our decision to provide this laboratory kneader is SKZ's very practical focus. Most of the projects SKZ handles are driven by industry, predominantly by medium-sized companies. So that our MX 30 can be put to effective use right from the outset, our processing engineers will be on hand to provide assistance. Something that will apply both to SKZ's own research projects and to commissioned work."

And he adds that precisely in the latter case interested parties can enjoy a major advantage: shipping test materials within the EU cuts out a lot of the red tape involved in using Buss' own pilot plant in Switzerland. As Kunzmann explains, "So we also benefit from our cooperation with SKZ because it is supporting the work of our recently established German sales operation in Oftersheim close to Mannheim".

In Buss' single-screw oscillating kneaders, the mixing and kneading screw carries out an axial oscillation on each revolution. Interaction of the kneading flights on the mixing screw with the stationary kneading pins in the barrel ensures thorough but gentle mixing of the compound in the processing section. The MX 30 laboratory kneader supplied to SKZ has a screw diameter of $D = 30 \text{ mm}$, a processing section with a length L of $22 \frac{1}{D}$, is suitable for product volumes of 300 g upwards and is designed for through puts of 5 to 25 kg/h. Maximum screw speed is 800 min⁻¹.

The kneader barrel can be adjusted to processing temperatures of up to 300 °C. Equipped with three teed hoppers for feeding material, a discharge extruder with downstream pelletizing and user-friendly touch panel control, the MX 30 laboratory kneader is just as versatile as the larger models of the MX series. Process parameters determined during testing can be directly scaled to industrial production conditions.

NATURE-INSPIRED CLOTHING COLORS WITH FULL TRACEABILITY

A dyestuffs company with a new name but a long history wants to help clothing companies on their way to eco- conscious fashion, with a range of products created from agricultural waste. And it is embracing the latest in communications technology to enable transparency of the supply chain to consumers.

Archroma, a global leader in color and specialty chemicals, is combining the old and the new in a range of "biosynthetic" dyes for cotton and cellulose-based fabrics - EARTHCOLORS - which are derived from almond shells, saw palmetto, rosemary leaves, and other natural products.

EARTHCOLORS make use of agriculture waste products that would otherwise be sent to landfill. They can be used to provide rich red, brown and green colors to denim and casual wear.

Wearing its heart on its sleeve, so to speak, Archroma is providing brand owners with the possibility of transparency along the complete supply chain for EARTHCOLORS. And it is also offering to make that transparency available to clothes shoppers - just as long as they have a smartphone with them.

Archroma will put all the information about individual batches of color on hang

tags to be attached to each item of clothing. Each hang tag incorporates a chip with all the information on it, and that information can be accessed by the prospective buyer in the shop using Near Field Communications (NFC) technology incorporated into their phone. Archroma believes that this is the first time that NFC is being used in this way.

NFC is a relative of RFID, or Radio Frequency Identification, which many retailers already use for tracking products.

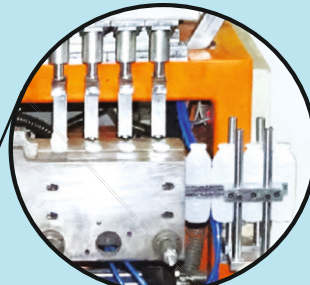


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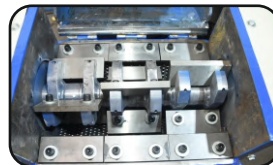
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An engaging panel discussion at the upcoming Plastics Extrusion World Expo will debate a number of key issues surrounding the professional development of women in the plastics industry.

Women in Plastics: Empowering Industry Change is a special panel featuring high-achieving women from across the world of plastics sharing their perspectives on breaking through in this traditionally male-dominated industry.

Among the topics to explore, the 45-minute panel will look at the different paths these leaders have made into the plastics industry, how the modern workplace is changing to become more inclusive, and future challenges and opportunities for the next generation of women entering into plastics or other manufacturing professions.

The influential panellist line-up includes:

Lauren Hickey, Director of Marketing and Product Management at masterbatch manufacturer Americhem

Jennifer Profitt, Plant Manager at profile and sidings producer Associated Materials

Meli Laurance, Regional Commercial Industry Manager Plastics at global pigment specialist BASF Colors and Effects

Candace Sanders, Assistant Plant Manager at PVC product supplier Genova Products

Molly Bridger, Group Director of Marketing at thermoplastic materials manufacturer Simona America

Ohio, USA on May 8-9, 2019. It is being held alongside the Compounding World Expo and the Plastics Recycling World Expo. By registering in advance, visitors will receive free admission to all three exhibitions, featuring more than 250 suppliers, plus free entry to five conference theaters hosting technical presentations, educational seminars and business debates. Attendees also have the option to buy tickets for the networking party at Cleveland's Rock and Roll Hall of Fame on the evening of May 8.

Admission to the tradeshow and its conference theater will be free-of-charge to visitors who register in advance here.

To book your free ticket, which is valid for both days of the event, visit: http://ami.ltd/Expos_NA

cont. from page.31

AMI conference on underground pipes in Florida

pipe market. Polypipe Inc. has studied material selection and specification of pipe for different applications using resources such as the Plastic Pipe Institute Polyethylene Design Handbook and the AWWA Manual M55 (PE Pipe Design & Installation). Factors include pipe diameter and working pressure ratings.

Utah in the Western US is very dry and

the Colorado river is a key resource. The Huntington-Cleveland Irrigation Company had targets of increasing the area under irrigation during dry periods, improving water delivery efficiency from 35% to at least 75%, and reducing salinity in the Colorado and adjacent rivers by 70,000 US tons per year. ISCO Industries became involved in fabrication of the 145 miles

of PE3408/3608 HDPE pressure rated pipelines (pipe was supplied by WL Plastics, JM Manufacturing and Performance Pipe). There were issues with the high liquid load under the arid surface, which gave trenches a short lifetime and mean that concrete bearing pads under junctions would sink.

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water from wet PE film grinded waste (without evaporating in air).

These machines are running satisfactorily everywhere in India and abroad.



The Largest Sector of The Industries

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 grow 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.

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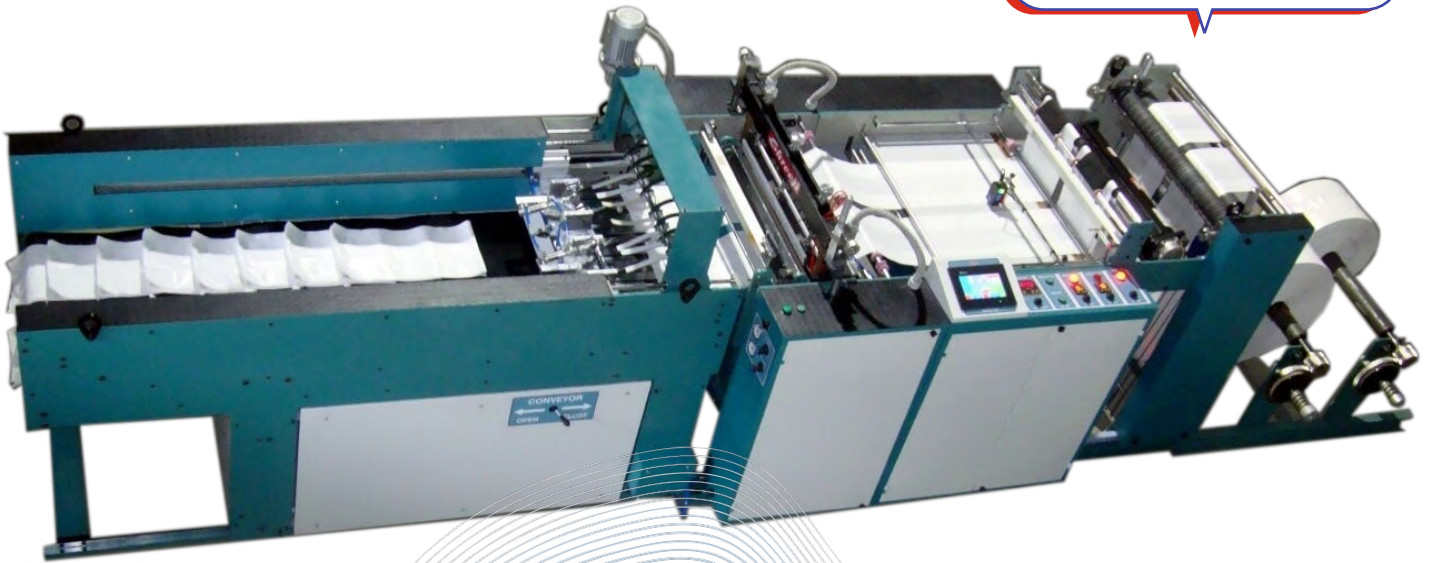
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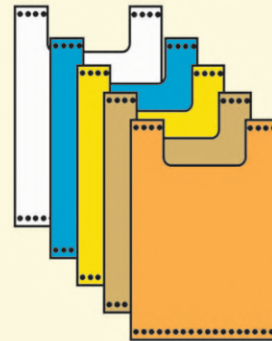
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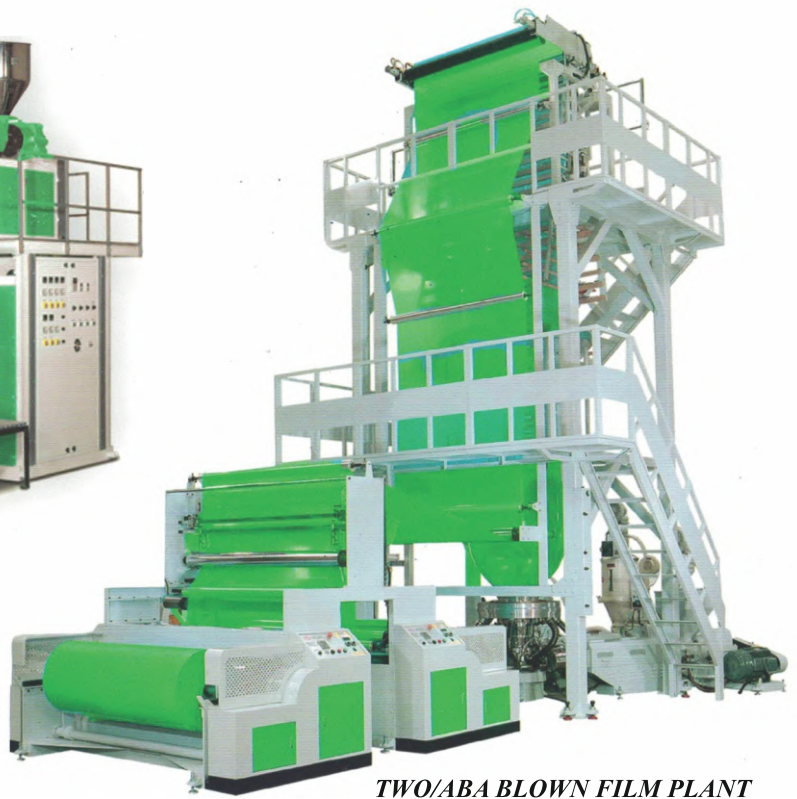
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INTRODUCING

Twin Screw Conical Extrusion

APPLICATION

**PVC profile / WPC Profile,
PVC Form Board Sheet**



Twin Screw Pipe Extrusion



■ Die Head



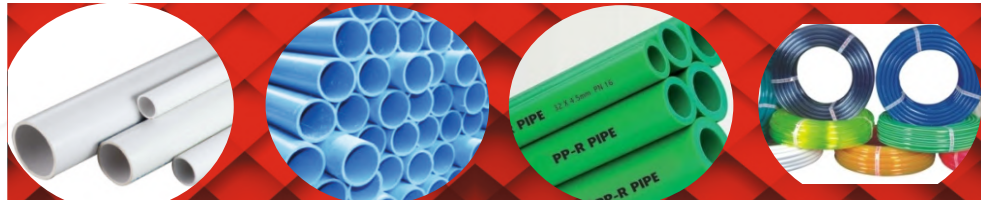
■ Vacuum Sizing Tank



■ Tube / Pipe Traction Unit



■ Tube Auto Cutting



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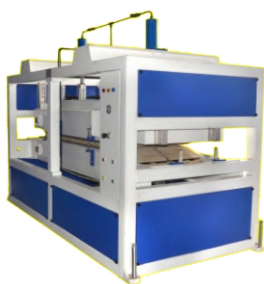


■ Profile Die

Twin Screw Conical Profile Extrusion



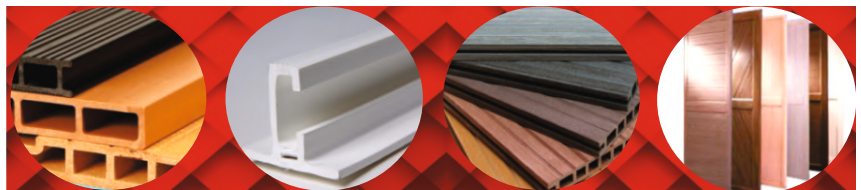
■ Vacuum Calibration Table



■ Hydraulic Haul Off



■ Profile Auto Cutter



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