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- ▶ Barrel Screw
- ▶ Single Screw
- ▶ Single Barrel
- ▶ All Grooved Feed Bush
- ▶ All types of Plastic Machinery Spare Parts
- ▶ Bi-metallic Screw & Barrel
- ▶ Food Processing screw & Barrel

17
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- Roto Gravure Printing Rollers
- Offset Printing Roller
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- Extrusion Lamination Rollers
- Heat & Press Roller
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- Plastic Machine Roller
- Plywood Machine Rollers
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- Non Woven Sack Machine Roller
- Abrasive Machine Rollers
- Biscuit Machine Rollers
- Rubber Sleeves
- Spiral Roller (Chudi Roll)
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- Crook Roller
- Screw Roll With Nut
- Rewinder & Unrewinder Shaft
- Guide Roller
- Hitler Roller
- Conveyor Machine Roller
- Stretching Machine Roller
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- Gudge Machine Roller
- Arelax Roller
- Tap Plant Roller
- Sp. Pin Fitted Roller (Perforation)
- Paper Mill Rollers
- Hard Chrome Plating
- Super Finish H.P Roller
- Matt Finish H.P Roller
- Mirror Finish H.P Roller
- Pharmaceutical Machine Roller
- Food Grade Roller
- Molding Parts
- Taper Degree Con Roller
- S.S. Cladding Roller
- Ceramic Cladding Roller
- Textile Mill Roller
- Brush Rollers
- Chilling Rollers
- Air Shaft
- Pin Filled Cooper Roller
- Banara Roller (Expander)

Rubber Range of G.R.W

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

Material Range of G.R.W

- Rubber & Ebonite Rollers
- Aluminum Roll
- S.S. Roller
- M.S. Roller
- Gun Metal Roller
- Copper Roller
- Nylon Roller

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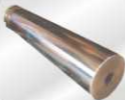
Solvent Less Rubber Roll



Diamond Cut Rubber Roll



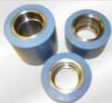
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Teflon Coated Roll



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- » Triple Decker Sealing & Cutting Machine (with & without Conveyor)
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- » PP. Extruder Machine Inflation for PP. (with Single Die, Double Die & Rotating Die)
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- » Gzetting Machine
- » Pouch, Label etc. Cutting Machine with High Speed
- » Mixer & Grinding Machine
- » Agglomerator Machine
- » Punching Machine
- » Nylon Cutting Machine (Nylon Cutting for Velvet Paper etc.)
- » Dana Making Machine
- » Other Plastic Machineryes with its accessories



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High Speed Single Die Inflation Machine For PP



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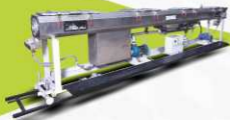
DRIP AUTO WINDER MACHINE

Our Product Range

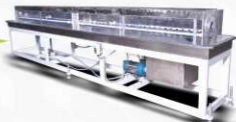
- Round Drip Plant
- HDPE Pipe Plant
- Flat Drip Plant
- PVC Pipe Plant
- Braided Hose Pipe Plant
- Garden Pipe Plant



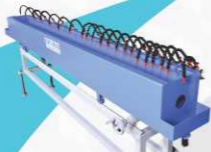
Website



HDPE VACUUM TANK



HDPE SPRAY BATH



GARDEN WATER BATH



GRANULES PLANT



DRIP COOLING



DRIP PUNCHING



DRIP INSERTING UNIT



Website

RANGE OF PRODUCTS

- Mono Layer Film Plant
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- A-B-A Film Plant
- 3-Layer Haul-Off Rotating Film Plant
- A-B-A Die Rotating Film Plant
- A-B-A Haul-Off Rotating Film Plant
- A-B-A Fax / Rotating Die
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Vacuum Sizing Tank



Tube / Pipe Auto Cutter



Tube / Pipe
Traction Unit

Manufacturer of :

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- Twin screw pipe Plant
- Vacuum/Cooling sizing Tank
- Spray Tank
- Tube / Pipe Traction unit
- Rotary Auto cutter
- Tilting
- PPR / HDPE / LD Pipe extrusions

- Grooved feed system
- Garden pipe extrusions

Profile Plant Range :

- Twin Screw PVC Profile Extrusion
- Calibration Table
- Hydraulic Haul Off
- Profile Auto Cutter
- High Speed Heater-Cooler Mixer



Profile Die



Calibration Table



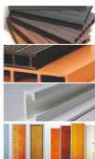
Hydraulic Haul Off



Twin Screw Profile Extrusions Line



Profile Auto Cutter



Zeel®

Plast Machinery

Plastic Extrusion Blow Moulding Machine



Website



500 ml Double Station Plastic Extrusion Blow Moulding Machine With Hydraulic Blow Pin.



Features

- Fully Automatic
- Continuous Parison
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- Microprocessor Control Panel

Options

- Single or Double Head
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- Angular Blowing System
- Single and Double Station in Assorted Models.



1 Ltr Single Station Plastic Extrusion Blow Moulding Machine.



Mfrs & Exporter of : Fully Automatic Plastic Extrusion Blow Moulding Machines



1 Ltr. Double Station Plastic Extrusion
Blow Moulding Machine



1 Ltr. Plastic Broom Pipes & Bat,
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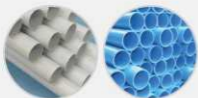
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E-mail : zeelplastmachinery@gmail.com | info@zeelplastmachinery.com
Web : www.zeelplastmachinery.in, www.zeelplastmachinery.com



Twin Screw Extruder
(PVC / uPVC / cPVC)



Product Range

Model	UTS 110	UTS 140	UTS 170	UTS 200	UTS 230	UTS 260	UTS 300	UTS 400	UTS 500
Extruder Drive (kW)	11	11	15	20	27	30	45	55	90
Screw Dia (mm)	37	37	45	45	50	57	71	80	87
L/D Ratio	20:1	23:1	23:1	23:1	23:1	23:1	20:1	20:1	20:1
Output (kg/Hour)	180-110	130-140	150-170	180-200	200-220	220-250	320-350	420-450	520-550
Pipe Range (mm)	20-110	20-110	30-200	30-200	40-250	40-250	110-315	110-400	110-400

* Performance varies depending on polymer grade and material.



Vacuum Calibration Tanks



Tube/Pipe - Cutting Unit



Tube/Pipe - Traction Unit



Website



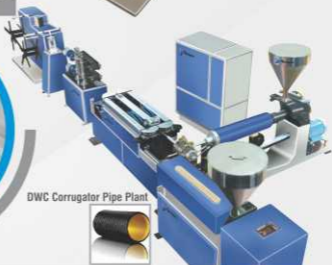
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Corrugator



DWC Corrugator Pipe Plant



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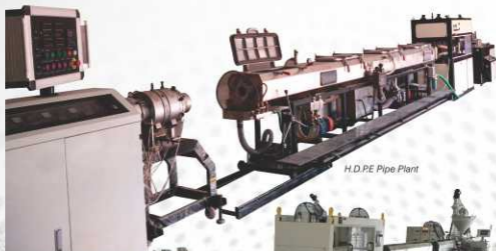
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H.D. PE Pipe Plant



P.V.C Pipe Plant



Cutter Unit



Twin Screw Extruder



Haul-off/Traction Unit



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Product Range

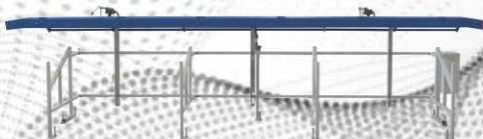
- P.V.C Pipe Plant
- H.D.P.E Pipe Plant
- Vaccum Sizing Tank
- Haul-off/Traction Unit
- Cutter Unit
- Tilting Unit



Vaccum Sizing Tank



Vaccum Sizing Tank



Tilting Unit

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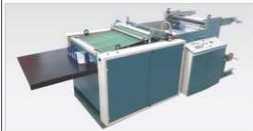
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- ◆ Blow Moulding Machine



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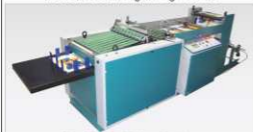
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- ◆ Side Seal Bag Making Machine
- ◆ Double Decker Bag Making Machine
- ◆ Bottom Seal Bag Making Machine
- ◆ High Speed T-Shirt with Conveyor Bag Making Machine



Side Seal for Plain Bag Making Machine



High Speed T-Shirt Bag Making Machine



Side Seal Bag Making Machine



Double Decker Bag Making Machine



Bottom Seal Bag Making Machine



High Speed T-Shirt with Conveyor Bag Making Machine

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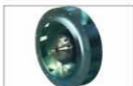
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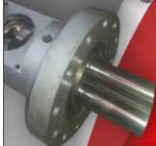


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Screw & Barrel...



Twin Screw



Spline Shaft



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- Twin Hole Barrel (Rear Barrel)
- Segmented Barrels
- Single Screw
- Twin Screw



Plastic Processing Machinery

Twin Screw



Ring Plunger Set



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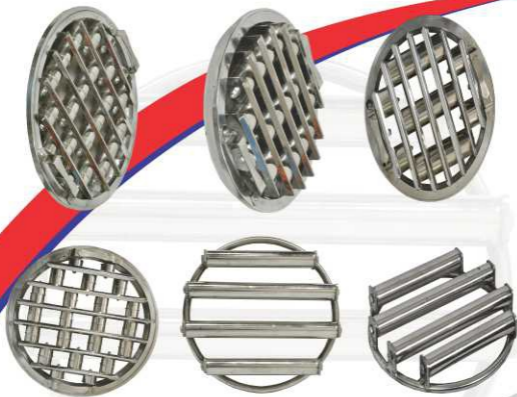


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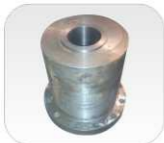
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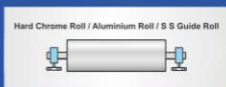
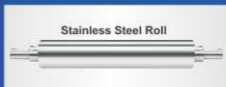
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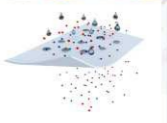
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Breathability can be defined as the moisture vapour transmission price (MVTR) and it represents the amount of water vapour that passes via a film or a shape over a sure period of time. Coating of lotryl on stable substrates like fabric or non woven may be used to make robust flexible membranes and covers. Breathable films are fashioned with the aid of a aggregata of polymers and mineral fillers. The films have a micro porous structure that is crucial for vapor transmission. The polymers which are specifically utilized are polyethylene, polypropylene, polyurethane, and others which contain polyester block amide, thermoplastic polyester elastomers, co-polyester, and co-polyamide. These films are used in a wide range of end-user industries including building & construction, pharmaceuticals, medical, industrial, food packaging & processing, and personal care & hygiene. In food packaging, the film enables superior circulation of vital gases from the atmosphere keeping the food content fresh and also avoiding accumulation of pungent odors. In case of industrial applications, breathable films are employed to manufacture protective clothing for hazardous environments.

The breathable films market is propelled by the personal care & hygiene industry, due to the growing awareness about hygiene and health in the general population. Their applications in this sector include the manufacturing of baby diapers, adult diapers, and sanitary napkins. Thus, rising birth rates and ageing population are key drivers of the breathable films market. The growing per capita GDP in developing countries and rising consumer spending on personal care products is also propelling the breathable films market. The burgeoning construction industry is also a propellant, with breathable films utilized as house wrap, roofing films, and wall coverings. Moreover, these films

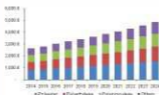


are also used to manufacture disposable clothing in the medical sector, and therefore the robust growth of health care facilities, especially in developed countries, motivates this market substantially.

The global breathable films market is expected to exceed more than US\$3.50 bn by 2022; growing at a CAGR of more than 7.5%, as per Market Research Engine. The major driving factors of breathable films market are rising usage of breathable films in quality hygiene products, increasing awareness about hygiene and health. Development in the baby diapers market globally is the major restraining factors of breathable films market.

The global breathable film market will gain from rising demand in packaging, healthcare and hygiene industries till 2024, as per Grand View Research, Inc, to reach US\$22.63 bn. The growing demand for breathable films in the packaging, healthcare, hygiene, and apparel industry is anticipated to drive market demand over the coming years. The market is strongly influenced by new product developments and expansions into emerging markets. The increasing use of breathable films in hygiene and building & construction market is anticipated to boost the market growth in Asia Pacific. Stringent regulations concerning use of protective apparel in the healthcare and industrial sector are expected to augment future market growth. Rising demand for waterproof garments in sports apparels is projected to propel the demand for breathable films over the forecast period.

Breathable films to register CAGR of over 7% on growing awareness and rising demand for hygiene products



Continues On Page No.: 40



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Breathable films to register...



Increasing investments in the healthcare sector is expected to drive the demand for masks, gloves, drapes, sheets, and other disposable garments over the coming years. Further key findings from the report suggest:

*The global breathable film market demand was 5.48 mln tons in 2015 and is expected to reach 8.92 mln tons by 2024, growing at a CAGR of

demand in 2015. Increasing penetration for healthcare and food packaging application is expected to drive this segment over the forecast period.

*The packaging segment occupied the largest share in 2015, on account of growing demand for breathable films in the convenience food, confectionery & bakery products, meat, and



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packaging



5.6% from 2016 to 2024

*Polyester dominated the breathable film market in 2015 accounting for around 33% of the global market demand in the raw material segment. It is also expected to witness the highest growth of 6% over the forecast period.

*Non-porous films were the leading product segment and accounted for over 70% of global

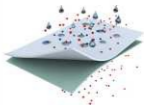
processed food market.

*Asia Pacific is anticipated to witness a significant growth over the forecast period on account of the growing building & construction and manufacturing sector

*The increasing demand for protective apparel in the medical and industrial sector of North America and Europe is anticipated to boost future market growth in this region. Major companies identified in the market include Argotec LLC., Arkema, Clopay Plastics, Fatra, a.s., Kimberley-Clark, and Nitto Denko Corporation among others.



As per MarketsandMarkets, the global market size of breathable films, which was US\$2.10 bn in 2015, is projected to reach US\$3.21 bn by 2021, at a CAGR of 7.5% between 2016 and 2021. Increasing demand for premium hygiene products in developing countries along with rising



per capita GDP, high birth rate, and rising awareness regarding health & hygiene are the factors driving the breathable films market during the forecast period. Hygiene accounted for the maximum share of the market, in terms of value as well as volume, in 2015. Breathable films are used in disposable baby diapers, disposable sanitary napkins, and disposable incontinence adult diapers. These films are used as backsheet materials which provide improved comfort, better skin breathability, and help reduce skin rashes and sores. High birth rate is the major factor driving the baby diapers market, whereas increasing ageing population is fueling the adult diapers market growth. The increasing demand for premium diapers will drive the breathable films market during the forecast period. Polyethylene breathable films account for the maximum share, in terms of value, of the overall market due to its excellent customizability and mechanical properties. There is rising demand for high performance and efficient breathable films, which is expected to drive the market for this segment.

Asia-Pacific is the prime market for breathable films, globally. The region accounted for the maximum share of the breathable films market in 2015. Asia-Pacific is also projected to register the highest CAGR between 2016 and 2021, backed by the increasing demand from the rapidly emerging economies of the region. North America is expected to maintain its position during the forecast period. The U.S. and Canada have higher percentage of old age population than Mexico, whereas Mexico has the highest birth rate in North America. So, the former two will be driving the breathable films market in adult diapers, while Mexico will be driving the breathable films market in baby diapers. High investments from manufacturers and capacity expansion in new markets will be the growth strategies for market dominance.

The major players covered in the report are Clopay Plastic Products Company (U.S.), RKW Group (Germany), Mitsui Chemicals Incorporation (Japan), Toray Industries Inc. (Japan), Covestro (Germany), Nitto Denko Corporation (Japan), Fatra A.S. (Czech Republic), Arkema SA (France), Celanese Corporation (U.S.), and Tropicast Industrier AB (Sweden) among others.



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Geosynthetics to offer solution for number of problems affecting the topography of the world

Geosynthetics is a class of synthetic products that are used mainly in construction and geotechnical engineering applications. These are versatile, highly durable materials and serve as cost-effective alternatives in geotechnical, environmental and hydraulic applications. Geosynthetics are made up of durable polymers such as High-density polyethylene (HDPE), Polypropylene (PP), Polyester, these are incorporated in order to act as separators, filters, reinforcements, drainage facilitators and as liquid and gas barriers. As such, owing to their favourable physical properties includes strength, stiffness, durability and many others it is widely used in civil engineering, road industry, soil reinforcement, mining, among others. Over the recent past, the growing adoption of Geosynthetics across the globe has resulted in a steady growth. Moreover, increasing investments in infrastructure and environmental projects by both, developing and developed countries are likely to drive the growth of the market. Also increasing demand from waste treatment applications, transportation sector and regulatory support on account of enhancing civic amenities, several projects were taken by national government which has continued to fuel the growth. However, volatility of raw material prices used in manufacture is a major restraint to the growth.

Asia Pacific accounts for the largest share of global market and is expected to emerge as the fastest growing market during the forecast period. Countries like India, China and Russia in particular, are expected to witness robust growth in adoption in construction and geotechnical projects. Geotextiles segment accounts for the largest share in market value. The global Geosynthetics market growth is driven majorly by their increased adoption in a variety of applications in construction sector, emergence of these as viable alternatives in waste and water applications has further

bolstered global geosynthetics market growth. Moreover, increasing number of infrastructure development projects in developing countries and increasing demand of geosynthetics in roadways and rail construction applications across the globe has resulted in a steady growth of global geosynthetics market.

According to a research report by Transparency Market Research, the global geosynthetics market is pegged to hit US\$11.3 bn by the end of 2016 and is expanding from thereon at a CAGR of 9.1% given from 2015 to 2023. Geotextiles are and will continue to be the leading product segment in the global geosynthetics market. By 2023, geotextiles are expected to accrue 39.7% of the market volume. The three leaders of market in 2014 – Officine Maccaferri S.p.A., GSE Environmental, Inc., and TenCate Geosynthetics – had a collective share of 27.7% in its highly fragmented competitive landscape. While the key players in the market do hold prominent production capacities in core regions of the world, the market is still largely taken up by the smaller, regional players.

Asia Pacific has already been the leading region in terms of consumption for 2015. This region is likely to maintain its high consumption rate till 2023. It is also likely to take up a larger share of the market, cutting down the percentage shares that North America and Europe will hold. Meanwhile, the key function for geosynthetics over the coming few years is expected to be containment. This function has already been the leading segment so far and is expected to garner 42.1% of the market in terms of volume. One of the key drivers in favor of the market currently is the global need for green infrastructure. Nations are looking to evolve existing industries while also paying more attention to reducing their carbon footprint. The market is capable of providing the one-size-fits-all solution that many countries are looking for.

Geosynthetics are heavily preferred due to the excellent physical properties they bring to the table. They are effective in providing containment and reinforcement to structures and are additionally flexible in nature. This makes them a valuable asset in construction projects such as road widening, road base reinforcements, noise reduction barriers, soft soil stabilization,



Continues On Page No. : 46

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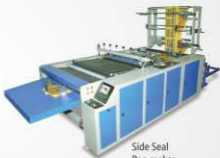
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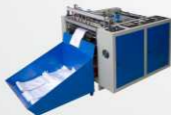
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reinforced banking, and reinforcing wall and slope. Geosynthetics are highly useful in the prevention of soil erosion, a key cause of concern for several countries. It is the causation factor for eutrophication, increases the chances of floods in the region, destroys biodiversity of a region, and creates sedimentation issues for further soil formation. The global geosynthetics market can therefore be the solution for a great number of problems affecting the topography of the world.

Naphtha, the key ingredient required to manufacture the raw materials for geosynthetics – polyester, polyethylene, and polypropylene – is not entirely in ample supply. Naphtha is a derivative of crude oil products and crude oil prices are currently extremely volatile in nature. Additionally, the prioritization of crude for fuel and other by-products is higher than the production of naphtha and consequently, geosynthetics, states a TMR analyst. Crude pricing also varies from region to region, creating a greater disparity in availability. The analyst adds, "There are, however, several areas where the manufacturers can expand their business in, for example, one of the key opportunities for the market is the growing use of geosynthetics in green constructions. The growing demand for green walls and green roofs is definitely something that players can look into."

As per Future Market Insights, over the recent past, the growing adoption across the globe has resulted in a steady growth of Geosynthetics. Moreover, increasing investments in infrastructure and environmental projects by both, developing and developed countries are likely to drive the growth of this market. Also increasing demand from waste treatment applications, transportation sector and regulatory support on account of enhancing civic amenities, several projects were taken by national government which has continued to fuel the growth in the market. However, volatility of raw

material prices used in manufacture of geosynthetics is a major restraint to the growth of the market.

Asia Pacific accounts for the largest share of global geosynthetics market and is expected to emerge as the fastest growing market during the forecast period. Countries like India, China and Russia in particular, are expected to witness robust growth in adoption of geosynthetics in construction and geotechnical projects. Among the product type based segments of global geosynthetics market, geotextiles segment accounts for the largest share in market value.

The market growth is driven majorly by their increased adoption in a variety of applications in construction sector, emergence of these as viable alternatives in waste and water applications has further bolstered global market growth. Moreover, increasing number of infrastructure development projects in developing countries and increasing demand in roadways and rail construction applications across the globe has resulted in a steady growth of global geosynthetics market.

Geosynthetics Market is estimated to be worth US\$15,403.7 mn by 2019, as per Markets and Markets, at a CAGR of 10.99% between 2014 and 2019. North America dominated the geosynthetics market in 2013. Asia-Pacific is projected to gain the major market size by value by 2019. Geotextiles held the major share in the geosynthetics value market in 2013 and would remain the largest shareholder till 2019. The geomembranes held the second largest share for the geosynthetics market value, and projected to grow with a healthy CAGR, from 2014-2019.

As per Grand View Research, the global geosynthetics market is estimated to reach US\$27.08 bln by 2022. Construction industry growth in India, China and Middle East, on



account of rising expenditure on infrastructure development is expected to be a crucial driving factor for geosynthetics market growth. Increasing application of geotechnical products for controlling seepage problems in building and irrigation projects is expected to have a favourable impact. Growing shale gas production in U.S. and Canada on account of increasing expenditure on hydraulic fracturing at domestic level may drive industry growth in the near future. Geotextiles market were the largest product segment with demand estimated over 4,300.0 million square meters in 2014. They find application in erosion control and soil reinforcement on account of properties such as flexibility, permeability and enhanced thickness.

Further key findings from the study suggest:

* Global geosynthetic market size was 6,124 mn sq mtrs in 2014 and is expected to reach above 9,000 mn sq mtrs by 2022, growing at a CAGR of 5.1% from 2015 to 2022.

Roads & pavements accounted for over 30% of global volume in 2014. Geogrids and geotextiles are incorporated for soil reinforcement and facilitating filtration during road construction.

* Containment & waste water application is expected to witness the fastest growth in terms of volume, at a CAGR of 5.7% from 2015 to 2022. Rising importance of waste water treatment in mining and upstream oil & gas sectors is expected to increase geotechnical product use in the near future.

* Asia Pacific geosynthetic market was valued over US\$6,100 mn in 2014. The Government of India announced Make in India Campaign in September 2014 which is aimed at increasing manufacturing output through foreign direct investment at domestic level. This supportive plan is expected to increase expenditure in construction industry and thus likely to have a positive impact on the market.





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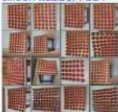
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Visitors at K can expect additions by manufacturers of masterbatches, pigments and additives to enhance safety, efficiency, comfort, easier product recycling, anti-counterfeiting, flame retardancy, clarity in packaging. These new developments will aid sustainability, safety and conductivity in end user industries of packaging, automotive, construction, electronics, among others.

halogenated flame retardants with an excellent environmental and health profile that pass the highest fire safety standards. They reduce the risk of ignition and fire spread and give people more time to escape in case of a fire. Each offers specific processing benefits in addition to outstanding fire protection. Few of the featured products include Exolit OP 1400 for polyamides used in electrical and electronic goods, AddWorks LXR 920 for polyolefin roofing sheets, also contributing to UV-protection, Licocene PE 3101 TP nucleating agent for expanded polystyrene (EPS) applications provides processors with a more economical solution compared to standard nucleating agents with similar solubility, viscosity and drop point, Colorant solutions based on unique pigment PV Fast Yellow H4G, to replace lead chromates. The solutions are safer for worker-handling and provide non-toxic, FDA approved alternatives for consumer goods. The new PV Fast Yellow H4G is being offered to replace lead chromates in PVC and polyolefins. This FDA-compliant organic benzimidazolone is said to have three times the color strength of lead-based pigments, so lower levels are needed, as well as excellent opacity and weather fastness. Polysymiren Black H is an IR-transparent dye that enables easy sorting of black articles made from engineering resins such as nylons, ABS, and PC during recycling. It has a very pure black tone and is said to eliminate the difficulty of sorting carbon-black colored articles by IR cameras, since they absorb IR light. Clariant will showcase new Licocene PE 3101 TP, a metallocene-catalyzed PE tweaked to serve as a nucleator for PS foams. It is said to be more economical than standard nucleating agents while offering similar solubility, viscosity, and drop point.

by: plasticmart.com

Cabot Corporation has announced new solutions for plastics applications around the key topics of sustainability, safety and conductivity and will present them at K 2016 As part of Cabot's on-going commitment to consumer safety and product stewardship, Cabot has certified more than 20 specialty carbon blacks using International Carbon Black Association and internationally-recognized methods. This is, among others, in response to an update of the REACH regulation that is tightening limits regarding polycyclic aromatic hydrocarbons (PAHs) for applications with prolonged or frequent skin contact. This new regulation (Commission Regulation (EU) No 1272/2013) makes the plastics goods manufacturers accountable for compliance. Cabot helps enable compliance for end-use products and gives customers the confidence that they can comply with REACH requirements. Cabot also continues to offer certification for food contact applications including certification for its highest purity specialty carbon blacks, MONARCH® 4750, BLACK PEARLS® 4350 and BLACK PEARLS® 4750 specialty carbon blacks, that comply with U.S. Food & Drug Administration (FDA) requirements (21 CFR 176.3297).

Clariant will introduce highly-stable, non-



isitors will be able to explore application examples and case studies featuring the benefits of Milliken's Millad® NTM 8000 and Hyperform® HPN nucleators under the three core themes - Making PP Cleaner; Making PP Better; Making PP Faster. On display will be the ability of Millad NX 8000 to make PP UltraClear allowing for material replacement in a wide range of processes, highlighting additional advantages of lower processing temperatures and therefore faster and more sustainable processing in injection molding. Milliken will

Continues On Page No.: 50

Developments in masterbatches, additives at K 2016 to aid sustainability, safety and conductivity

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Developments in masterbatches...



also showcase examples of how to reinforce the faster, trouble-free production and improved end-product performance, which is made possible by Hyperform HPN nucleators' excellent balance of physical properties. Both Millad NX 8000 and Hyperform HPN perform effectively in high melt flow PP grades, responding to the increasing industry demands for developing high melt flow rate (MFR) PP grades for faster production.

BASF will feature a new generation of methylated HALS, Tinuvin 880 is said to be suited to auto interior parts made of PP, TPOs, and styrenic blends. This novel stabilizer has been shown to provide unmatched long-term UV resistance along with drastically improved thermal stability. It is also designed to improve secondary properties by eliminating defects such as mold deposit and surface stickiness, even in scratch-improved materials. Tinuvin XT 55 HALS for polyolefin films, fibers, and tapes. This new high-performance light stabilizer shows very low contribution to water carryover and is designed for geotextiles and other construction textiles, roofing insulation, barrier structures, and carpets that have to withstand harsh climate conditions such as prolonged UV exposure, fluctuating and elevated temperatures, and environmental pollutants. This HALS is said to provide excellent secondary properties like color stability, gas fading, and extraction resistance.

Songwon's Songtend 2124 stabilizer improves the long-term thermal stability (LTTS) of the short- and long-glass fiber re-inforced polypropylene (PP) used in interior applications for molded parts, and can match the LTTS performance of 1000 h and beyond at 150° C. The new stabilizer contributes to making it possible for molded parts to be thinner and lighter while still having similar mechanical properties as unfilled parts.

Huntsman will exhibit novel pigments for applications like packaging, construction profiles, automotive and electronic components. Huntsman will also feature its new Toxicide TR48 TiO₂, which is said to process well, even at high temperatures, offers easy dispersion and excellent tint-reduction capabilities, and it was designed for low-VOC formulations. It is geared to premium and general packaging, consumer electronics, and automotive components.

Wacker introduces Genioplast WPC thermoplastic silicone additives designed for more efficient manufacture of PE, PP, and PVC

wood-plastic composites. They act primarily as lubricants, reducing internal and external friction during extrusion. Tests show that addition of 1% (vs. 2-6% for typical lubricants) results in 15-25% higher throughput. Initial grades are PP 20A08 and HDPE 10A03, which reportedly give WPC parts higher impact and flexural strength than with standard additives, and also reduce water absorption.

Kraiburg TPE will launch its FR/AD1 series of flame retardant compounds. The new series of TPEs were developed specially for applications in the construction industry, where they are used to ensure flexible cable installation in flush-mounting boxes. The material is flame retardant in



accordance with UL94 and is included in flammability class V0. In addition, it features excellent adhesion with ABS and PC in 2-component injection moulding. The flame retardant compounds are highly elastic and are free of latex, PVC and halogen. Other product highlights will include materials for drinking water applications as well as under-the-hood automotive applications. Thermoplastic elastomers for use with drinking water have all important European certifications to ensure compliance with high safety and hygiene standards. They are therefore also ideal for hoses in sanitary systems or beverage dispensers. Its Thermolast V products for use in under-the-hood automotive applications; with temperature resistance up to 130°C and adhesion to polyamide, these TPEs open up new areas of application.

For the wire and cable industry, Addviant will highlight three "Solutions to Breakthrough": LOWINOX® FAST XL which improves productivity and reliability for cross-linked polyethylene power cables and two new POLYBOND® coupling agents enabling HFFR (Zero Halogen) cable producers to achieve excellent mechanical properties sustainably.



Addviant will showcase new stabilization solutions for PUR foam which enable compliance with new car interior emission standards, and new ROYALTUF® nylon impact modifiers which provide super toughness for automotive interior and under the hood applications. ULTRANOX® 800 series, which enhance polypropylene converters production efficiency and recycling capability driving immediate profitability gains. WESTON® 705 is rapidly becoming the industry phosphite antioxidant standard for polyolefins and rubber. Backed with food contact approval over 50 countries and thoroughly tested, it enables greater sustainability and performance for the entire packaging industry. Will include new solutions from our advantaged platforms which are the industry's broadest portfolio of specialty antioxidant solutions: ANOX® and LOWINOX® phenolic antioxidants; ALKANOX®; WESTON® and ULTRANOX® phosphite antioxidants; OCTAMINE® and NAUGARD® amines; NAUGARD® thioesters; ANOX® and NDB® blends; LOWLITE® light stabilizers; but also POLYBOND® and ROYALTUF® polymer modifiers; NAUGARD® polymerization inhibitors; and NAUGARD® rubber chemicals and intermediates.

Spain's Tolsa Group is launching a new range of high-performance flame retardant synergists at K 2016. The ADINS Clay extended range are flame retardant clay synergists that deliver reduced smoke production in PVC and rubber polymer systems, in addition to the existing flame retardant additives used in other polymers. New ADINS grades are still based on a breakthrough technology using natural silicates, offering tailored performance benefits, improved processability and reduced cost in polymer systems. These new materials help meet the new stringent demands for smoke performance (CPR and others) due to the use of more stable coatings than competitive clays. Tolsa has shown that the combination with halogen and non-halogen flame retardant and ADINS additives in PVC and rubber systems significantly reduces heat release and smoke generation in transportation, electrical/electronics, building and construction, and structural applications. Tolsa's flexible technology facilitates modification of the sepiolite clay to meet the OEM's strict requirements in terms of heat and smoke performance. In PVC applications, for example, the clay can be modified to attain good dispersion and interaction with the polymer, according to Dr Esteban. Tolsa's wide range of high-performance flame retardant synergists are also used in other polymer matrices including PP, PE, PA, and EVA/PE.

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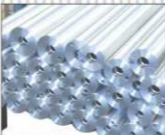
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Box Roll



By MATTHEW H. NAIJOKAT

Here are more details on what is heralded as "the most efficient industrial process chiller on the market," first discussed briefly in last month's Keeping Up section. Jochen Naujokat, president of Delta T Systems, Richfield, Wis., and Rick Holzhauser, the firm's chief mechanical engineer, previewed this development exclusively for Plastics Technology. These units are loaded with features that are either "firsts" in the field of process chilling, or are still quite rare for smaller chillers, or are standard capabilities that are usually expensive options.

To be launched in July, the new line will start with small portable chillers of 1 to 15 tons, with larger portable models up to 30 tons and central models to follow thereafter. Initial models will be air cooled, though water-cooled units will not be far behind.

SAVING ENERGY, BIG TIME

Perhaps the most important innovation in these new chillers is variable-speed compressor technology, which has been used for 20 years in the HVAC industry but rarely before in process chilling. (The only other known example is NOV series of 10- and 20-ton portable chillers introduced by Thermal Care, Niles, Ill., at MPE2015. See June '15 Keeping Up.)

The new Delta T system monitors the process temperature and signals the drive to speed up or slow down the compressor. It eliminates the wear and tear of on/off cycling of the compressor or energy-wasting hot-gas bypass valves. Compared with conventional fixed-speed compressors with hot-gas bypass, the new technology uses up to 50% less energy,

according to Delta T Systems, or 30-50% of the initial investment, and thereby pays for itself in two to three years. Naujokat says these estimated savings are conservative because "most chillers are selected based on the peak-usage time of the year, which means the chiller is oversized for the average use."

The savings are analogous to the savings from variable-speed hydraulic pump drives vs. standard fixed-speed pumps in molding machines. Like a conventional fixed-speed hydraulic pump, a fixed-speed compressor runs at 100% of the rated load regardless of the process needs. A more advanced option is the hot-gas bypass valve, which vents the hot, compressed refrigerant gas to the evaporator if no cooling load is needed. This is wasteful in the same sense that a conventional fixed-speed hydraulic system dumps excess oil over a relief valve when not required by the process.

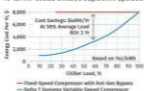
According to Naujokat, variable-speed compressors have historically been designed for HVAC use, and only recently have models tailored for industrial chilling become available. A key requirement for industrial versions is a wider operating envelope, Holzhauser explains. Another element critical to the development of the new chillers was that Delta T Systems Inc. worked with controls manufacturers to create a system specifically for use with these compressors.

The controller continuously monitors the suction and discharge pressures to ensure the compressor stays within its operating envelope. However, that operating envelope is now between 10% and 100% of rated capacity, which means that a 10-ton chiller can operate efficiently at loads of 1 to 10 tons. That compares with a 30% to 100% operating range for conventional chillers, says Naujokat.

The new chillers also use variable-speed condenser fans, which use onboard sensors to monitor the refrigeration system to keep the fan operating at the most efficient point. What's more, monitoring the refrigerant discharge pressure also protects the compressor by helping to keep it within its operating envelope.

Chiller Sets New Benchmarks For Energy Efficiency, Tight Control

Annual Cost-Saving Comparison
10-Ton Air-Cooled Chiller, 5 Day, 2 Shift Operation



Continues On Page No.: 57

Chiller Sets New Benchmarks...



The variable-speed condenser uses a permanent-magnet, electronic computed motor (ECM), described by Delta T Systems as "the latest development for condenser-fan motors and the quietest, most efficient, and most reliable motor technology in the industry." It eliminates the small copper refrigerant capillary tubes from a mechanical expansion valve or mechanical pressure controls that can fail over time due to vibration, Holzhauser explains. ECM is another feature adopted from the HVAC industry, and variable-speed fans have until now been relatively rare in process chilling, where they have been offered as expensive options—but are standard on the new units from Delta T Systems.

Also contributing to efficiency are oversized, stainless-steel, brazed-plate evaporators with a larger heat-transfer surface than competitive units, which reduces compressor demand and energy consumption. And microchannel aluminum condenser coils eliminate the galvanic corrosion between dissimilar metals seen in copper-tube coils with aluminum fins. Microchannel aluminum coils are "the latest technology in the industry," according to Naujokat, and have appeared so far on only a few

Industrial chillers.

In addition, cleanable condenser air-inlet filters to protect the condensers from dust and debris are standard features on the new chillers but not on all competitive models. Delta T Systems also added a cleanable evaporator strainer to protect the evaporator channels from clogging; unlike similar features on other chillers, it employs a new method of straining and a quick-disconnect on the water side that eliminates threads and hose clamps.

Like other state-of-the-art chillers, the new units also have a refrigerant filter/drier and all nonferrous chilled-water piping that's rust-free.

ENHANCED CONTROL & CONNECTIVITY

Besides energy savings, the number-one benefit from the combination of variable-speed compressor and condenser fan, plus electronic expansion valve, is better temperature control—within $\pm 0.5^\circ\text{F}$ vs. a more typical claim of $\pm 1^\circ\text{F}$ or C, and Naujokat says a real-world practical value today is often more like $\pm 2\text{--}3^\circ\text{F}$.

He notes that the new chillers use "adaptive control," whereby the compressor speed is adjusted to prevent a shutdown if it approaches an alarm condition—caused, for example, by increased refrigerant discharge pressure due to dirty condenser coils. The issue would be indicated on the control display with a short troubleshooting message, and an email or text message could be sent automatically to notify maintenance personnel.

The controls feature a compressor soft start, which adds to longevity, along with the fact that repeated compressor on/off cycles are eliminated by the variable-speed motor.

The new control system collects a large amount of data through digital sensors—including suction and discharge pressures and temperatures, water in/out temperatures, tank level, pump pressure, drive and fan outputs, pump status, compressor amps/volts/phase monitoring, and alarms. Such extensive data collection is usually offered on central chillers and is not typical of smaller portable units, Naujokat notes.

He adds that his new chillers' remote communication option—either through Modbus to a plant management computer or PLC, or via the internet ("cloud") to a remote PC, tablet, or phone—is also unusual for smaller chillers. This industry 4.0 capability is standard in the new units, not an expensive option.

Pricing has not been set for the new chiller line (dubbed "VS" for the variable-speed condensers), but Naujokat says it will not be premium priced, though the units may cost slightly more than standard models of the same size, a difference he says will be made up for quickly by energy savings. The two accompanying charts show expected savings and ROI for a 10-ton chiller operating 24-7 and 5 days/2 shifts, based on energy cost of 14¢/kWh.

Annual Cost-Saving Comparison 10-ton Air-Cooled Chiller, 24-7-365 Operation



- Fixed-Speed Compressor with Hot-Gas Bypass
- Delta T Systems Variable-Speed Compressor

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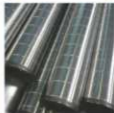
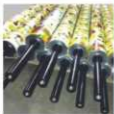
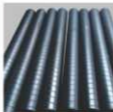
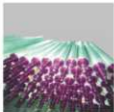


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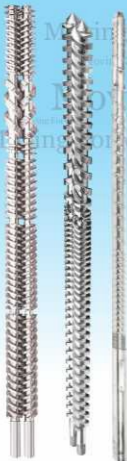
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Compression molding has been around a long time. But the method of using heat and pressure to form a part is being adapted with the times and managing to still find growth opportunities.

"We are building more compression molding machines for customers that want the machine itself to be more precise, more repeatable, [have] less downtime, and then have everything be recordable," said Josh Dixon, director of sales and marketing for Beckwood Corp., Fenton, Mo.

At French Oil Mill Machinery Co., Piqua, Ohio, demand for compression molding machines is trending up because of advances in materials and processes, said Dave Siedz, hydraulic division VP. In the past, compression molding was mostly limited to the aerospace industry, because of the cost. But now materials advances have allowed it to be increasingly employed by the automotive, recreational and medical markets, among others. And the aerospace market is expanding.

To meet increasing demands for temperature uniformity of the platen surface, Beckwood employs a multizone heat control technology. It also now builds every compression molding machine with a data recorder to register time, as well as to measure the temperature of each heating zone, the mold and sometimes even the part. "And those will oftentimes be graphed and exported to customer networks for traceability," Dixon said.

That capability also is a key factor for French Oil. "Certain industries, [such as] aerospace, need 100 percent traceability. Our control systems allow that. For each cycle, for each part, we know times, temperatures, deviations, things like that," said Siedz.

In compression molding, the amount of time the machine is applying pressure to the part is known as the dwell cycle. To increase energy efficiency, Beckwood offers a pneumatic dwell system that allows the shutdown of the main hydraulic pump and motor through the cycle. "It's a huge energy consumption advantage as well as just noise decrease," Dixon said.



A French Oil 850T compression molding hydraulic press

Compression molding is suited for a wide range of applications, he said. About 10-15 percent of the company's business is with the plastics industry, from thermoplastics for the aerospace industry to the Mr. Clean Magic Eraser consumer cleaning product.

Compression molding applications have evolved with technology changes over the years, and many migrated overseas as they became relatively low tech. The use of composites represents a growth opportunity, said Dave Singer, sales and marketing manager for Wabash MPI and Carver Inc., both in Wabash, Ind. Aerospace has been a strong market for composites for some time. But that is broadening. He said demand for the use of compression molding is growing among more mainstream industries, with applications in the automotive and energy segments. "As the materials get developed at higher temperatures and higher [pounds per square inch], some of them are more applicable to a compression molding application than other means of processing."

Both Wabash and Carver make presses for a variety of applications at the Wabash facility. Wabash focuses mainly on manufacturing applications, while Carver's equipment is designed primarily for laboratory uses.

Compression molding machine makers rise to demand for precision

By Allan Gerber

Continues On Page No.: 71

Compression molding machine...



Beckwood's 100-ton compression molding press

French Oil is seeing a good number of its customers perform resin transfer molding with compression machinery. The use of compression machinery with material that is pre-impregnated with a resin is also growing. The developments take advantage of French Oil's thermal management experience and its Uni-Temp platens and edge controls. "So we're applying some existing technologies that we've known for years and that we're currently developing, and then applying these to these different processes, also," Sledz said. For this approach, French Oil makes the Techni-Mold hydraulic composite molding press series, which is appropriate for use with rubber, silicone and composite materials.



A Wabash/Carver compression molding system

With advances in materials and processing, compression molding can now replace injection molding and autoclaving composite parts in some cases, said Ben Halford, chief executive at Surface Generation Ltd., Daxham, England.

The company said that its customers are focused on reducing the cost per component. The company's U.S. subsidiary, Surface Generation America, is located in Fort Worth, Texas.

"Users want fiber-reinforced products that are net [final] shape with injection molding finish," said Halford. "To achieve this, equipment manufacturers and materials suppliers are deconstructing the traditional single-station, compression molding process to create lines with separate loading, pre-heating, molding, cooling and ejection stations." That eliminates bottlenecks and allows the user varying degrees of automation.

Sacmi Imola S.C., Imola, Italy, said it is seeing growing use of its Cool+ molds, a modified liquid-coolant circulation system inside the mold that ensures all parts in contact with the plastic are cooled. The system cools better and in less time than comparable technologies, said Iacopo Bianconcini, Sacmi beverage marketing manager, closures and containers.

While virtually any part can be made through compression molding, several factors dictate the process' use, French Oil's Sledz said. Considerations can involve the shape of the product, and the quantity and cost of materials. "To inject a part obviously is much faster than compression molding it, but some particular parts, due to size or materials, aren't potential candidates for injection. I would say the shapes and the materials force you into one particular type or the other," Sledz said.

Compression molding is better suited for larger shapes, Sledz said. But size also can limit the value of the process, as can automation, cycle time and part shape.

The biggest challenge for compression molding is its lengthy cycle time, Dixon said. Sacmi finds the technology limited, as far as design options, when it comes to containers with hinged or sports-drink caps. And Surface Generation points to limitations involving material format and flowability. "For high-volume work, this is problematic," Halford said.

Singer describes the compression molding market as steady for the most part, with slight growth. He said he believes that as parts get bigger, there's a demand for larger presses and larger platen sizes. "Some of the newer energy technologies will bring new opportunities for the compression molding market."

Compression molding equipment prices are becoming more competitive, added Sacmi's Bianconcini.

Beckwood's Dixon said demand for the company's plastics machinery is holding steady, while interest is increasing in other markets. He sees growth in the aerospace, automotive and military markets, as well as in applications using composites.

Surface Generation is seeing widespread inquiries on compression molding, with strong demand for lighter, thinner products. Growing use of thermoplastics is also generating a strong market push, Halford said. Built to handle thermoplastics and thermoset composites, the company's new Multiplexing system integrates multiple stations for material loading, infrared preheating, molding and demolding.

Comparing European compression molding equipment to American, Sledz said the Europeans are somewhat more advanced in providing systems rather than a single machine. "Where we might do a press, the Europeans might be a little more aggressive when providing a whole turnkey system. But the requirements are now starting to drift down from aerospace to other industries." Surface Generation's Halford said compression molding's popularity depends on the sector and geographic region where it is used. "We are seeing particular demand for new compression molding techniques from aerospace manufacturers in North America, while in Europe it tends to come from automotive companies," Halford said. "In Asia, we see most demand from consumer electronics manufacturers."

For Sacmi, the Asian and Middle Eastern markets represent greater demand than Europe, Bianconcini said. That's because large European cap converters were already operating when Sacmi entered the market, making it harder for the company to gain business. But he said the market is changing.

Dixon said about 20 percent of Beckwood's business is overseas.

And Wabash/Carver has seen export growth in Europe and particularly Russia. "A lot of that growth is into the laboratory side to our business. Small types of machines for R&D, that kind of thing," Singer said.

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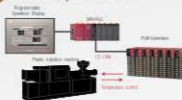
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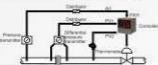
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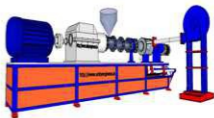
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Compounders of recycled plastics are looking to extruder makers for innovations that will help their products compete with low-priced virgin resin.

KraussMaffei Berstorff GmbH

KraussMaffei Berstorff GmbH, Hanover, Germany, offers its EdelweissCompounding line of extruders for recycling and compounding. The line includes co-rotating twin-screw extrusion technology for melting and alloying polymers, and filling, reinforcing and producing masterbatches. It has twin-screw and single-screw extruders for post-consumer and post-industrial waste. It also offers single-screw extruders for repelletizing.

The company said the advantages of twin-screw over single-screw extrusion include optimized degassing, melt homogeneity and better filtration.

In the U.S. market, KraussMaffei is finding success from the "cascade approach" using two twin-screw extruders or one single-screw extruder and one twin-screw extruder. The first extruder melts and degasses the recycled plastic, and then the material gets filtered through a continuous filter. Next, the clean, homogenous melt is transferred through a melt pump into the second twin-screw extruder, where the focus is on compounding. The twin-twin cascade allows processing of about 7,700 pounds per hour in the recycling stage and more than 11,000 pounds per hour in the compounding stage.

"Splitting the task up allows us to generate the most energy-efficient approach and to optimize both extruders in terms of their dedicated recycling and compounding applications," said Carl Poepl, product and sales manager, twin-

screw extruders, for KraussMaffei. "This also results in the highest flexibility regarding the compounding task because the cleaned, homogenized melt can be compounded with fillers — fibers of specific additive packages, according to the customers' preference. Using a [twin-screw] makes the system 'polymer independent' because an adaptation in the field of the screw design and barrel layout allows [the running of] nearly every polymer with the same base machine setup."

Poepl said degassing and melt filtration are important in recycling, so material must be dried in the extruder before mixing in additives, to allow for maximum performance.

American Starlinger-Sahn Inc.

American Starlinger-Sahn Inc. is a Fountain Inn, S.C.-based company that specializes in machinery for recycling. To provide cost efficiency, Starlinger's RecoSTAR Dynamic and RecoSTAR Universal machines allow customers to reduce material size, filter the melt, devolatilize, compound and pelletize in a single process, said Alan DiUmberto, sales manager, recycling division for the company.

The two machine lines have been designed to meet different needs. The RecoSTAR Dynamic features an automatic temperature control that allows for the processing of input materials with different moisture levels — a technology that allows it to handle hygroscopic, wet and foamed materials.

The RecoSTAR Universal, on the other hand, is designed for rigid, flexible and hard-to-grind materials. The system includes an Active shredder and load-controlled dosing screw for stable feeding, even when bulk densities vary. In combination with any of its RecoSTAR extruders, Starlinger markets an approach known as C-Vac, which deploys a special, second single-screw extruder called a C-Vac for compounding. In this approach, the first extruder is used as a pump to compress and melt the polymer, which then enters a melt filter, where many volatiles are removed. To eliminate the remaining volatiles, the polymer then enters the C-Vac, which is designed especially for degassing. The C-Vac optimizes the surface area of the polymer, exposing a maximum amount of it to vacuum, so that volatiles can be removed as gas.

Continues On Page No. 94

Extruder makers bringing innovations to recycling

By
Allan Gerber



Extruder makers bringing...



The extruder's frequency-controlled motor also facilitates compounding, with glass fiber added after melt filtration for minimal breakage of the fiber.

"This ensures that additives are not removed by a filter right after being put in the extruder," DiUmberto said.

The C-Vac approach is geared toward heavily contaminated and printed material, offering strong degassing efficiency and increased output.

"Recycling has to become a part of the business model in order for it to be relevant," Di-

Umberto said. "Other commodities such as steel, paper and aluminum are recycled and become part of the business model in making new products. The technology has been developed to increase recycled content in new products, but unless it is part of the model, it will not be sustained."

American Leistritz Extrusion

Co-rotating, intermeshing twin-screw extruders are often used for processing post-industrial resin (PIR). They are not used as often for post-consumer resin (PCR) applications, "although this is changing," said Charlie Martin, president and GM for Somerville, N.J.-based American Leistritz Extrusion.

Because the extruders are used for compounding fillers and additives into a resin, as well as for the removal of moisture and other undesirable volatiles from the melt stream, "there is a trend to integrate compounding and devolatilization functionalities into reclaim extrusion systems for both PIR and PCR applications," Martin said.

"Understanding the feedstock materials, final product property requirements, careful staging of unit operations, integration of the correct equipment and system controls must all be addressed for a successful installation."

Martin said technical challenges often relate to feeding regrind materials, filtration and devolatilizing feedstocks with residual moisture to accommodate compounding reclaimed materials with a twin-screw extruder in a one-step operation.

Leistritz makes High Speed, Energy Input (HSE) twin-screw extruders for compounding, reactive extrusion, devolatilization, foaming and direct extrusion. Screws and barrels are segmented and made with abrasion- and corrosion-resistant metallurgies as determined by the materials customers are processing.



Coperion GmbH

Customers interested in compounding extrusion equipment need to determine whether they will need high-torque or large-volume capabilities, said Eberhard Dieterich, business unit manager for new machine sales with Coperion GmbH, Stuttgart, Germany.



The company makes only twin-screw compounding extrusion machinery. Its Megacomponenter provides the high-torque option, while the Megavolume is the large-volume choice. The selection depends on the feedstock and process requirements.

Through a partnership with Erema GmbH, Ansfelden, Austria, Coperion also offers the Corema system for intake and melting of recycling raw materials with Coperion's twin-screw extruder for compounding in additives to

improve final material properties. The Erema technology is capable of taking in pieces larger than those that can be fed into a standard extrusion process. The twin-screw extruder serves to increase the value of the final product, and that can increase slim recycling profit margins.

"So instead of taking a plastic recycled stream and just selling it as consumer-grade polyethylene, polypropylene, for example, someone can add mineral filler to it and increase the value of it," said Alex Utracki, director of process technology for Coperion. "So now it's not just recycled plastics which will usually sell for less, but they can add these additives, which will give it certain properties."

With recycling economics being tight, single-screw machines often are chosen for cost reasons. "The twin-screw really shines when we're talking about higher rates," Utracki said. It's also advantageous for value-added processes. "So the twin-screw is a far superior compounding machine than a single-screw could ever possibly be."

Coperion also offers a specific configuration of twin screws for its ZSK MC18 generation of machines that reduces the need for drying with recycled PET. PET is sensitive to moisture when it's melted at processing temperatures. Utracki said. Recycled PET needs to be washed, and that involves a long and expensive run through a dryer. Coperion's system slowly heats the material within the twin-screw during the melting process and removes moisture simultaneously. "So for a recycler, the advantage of that is they can get rid of the final drying step," he said. "It's a cost savings for them."



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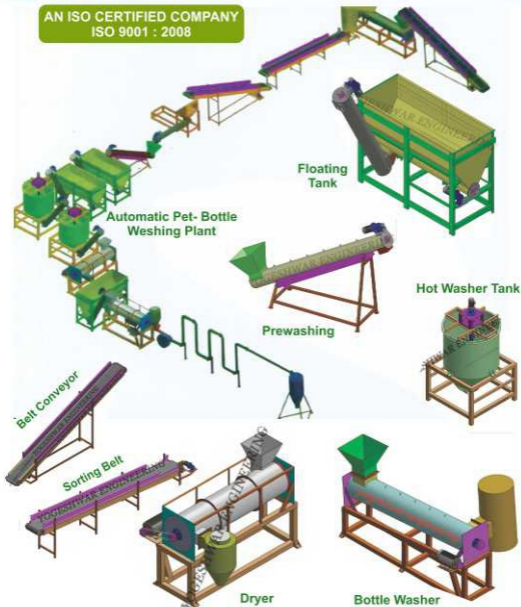
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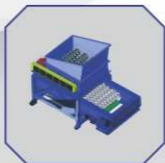
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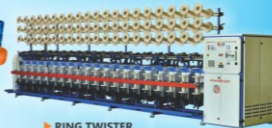
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- Blow Moulding Plant

Advantages:

- It filters the plastic material and removes impurities, thereby preventing damage to the die & barrel and hence increases the life of the machine
- Quality of the final

product remains consistently good

- Leakage problem gets eliminated
- Absolutely eliminates the idle time
- Maximum utilization of plant becomes possible
- Increases the life of mesh and hence saves money
- Easy to operate
- Consumes less energy

Installation support:

This screen changer has Barrel Side Flange and Strain Die which can be made and installed as per client's requirement, followed by a trial.



Rajhans

Manufacturer of all types of Screen Changers, Melt Pump Systems & Breaker Plate Cleaners

RAJHANS PLASTIC MACHINERY PVT. LTD.

An ISO 9001:2008 Certified Company

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Visit our Stall at Plastasia 2017 New Delhi from July 08-11, Hall No. 12, Stall No. D-9

HDPE Pipe Plant

Sutli Plant

Granual Dana Plant

Jockey Extruder

Grinder
Our Other Product Range

- ◆ Kisan Pipe Plant
- ◆ PP Sutli Plant
- ◆ Multi Colour Pipe & Tubing Plant
- ◆ Yam Plant
- ◆ PVC Pipe Plant
- ◆ HDPE Pipe Plant
- ◆ Reprocess Plant
- ◆ Granules Cutting M/c.
- ◆ Scrap Grinder M/c.
- ◆ Mixer
- ◆ Specialist in Screw & Barrel
- ◆ Sutli Plant
- ◆ Granule Dana Plant


Mixer Machine

Pipe Coiler
Manufacturer of All Kind of Plastic Machinery Plants & Spare Parts