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- ABA (2 Extruder 3 layer) Blown Film Lines
- Three-Layer (ABC) Blown Film Lines
- PPTQ Blown Film lines
- Compounding machine
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Carry Bag Punching Machine & Die Punch

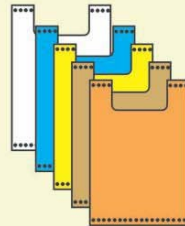
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- Sutli (Synthetic String) Plant
- Lab Model



Monolayer Blown Film



ABA Blown Film Plant
(Two Extruder Three Layer)



Multilayer Blown Film Plant



PPTQ Downward Blown Film



Reprocess Plant



Sutli (Synthetic String) Plant

Contact Details :

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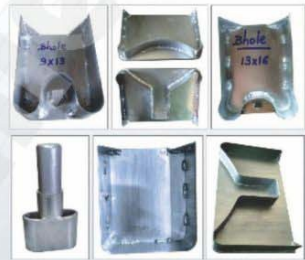
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Overall Dimension	Technical Specification
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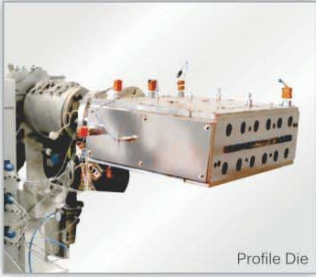
Pipe Plant Range :

- 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



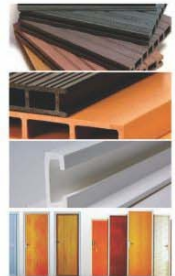
Hydraulic Haul Off



Twin Screw Profile Extrusions Line



Profile Auto Cutter





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10 <small>MHD</small>	L&T	53.9 Cr.
Total OETP Capacity	Contractor	Estimated Cost
20 <small>MHD</small>	TBD	145 Cr.
Total WTP Capacity	Contractor	Construction Cost
50 <small>MHD</small>	SPML	90 Cr.
Total Road Length	Contractor	Construction Cost
72 <small>km</small>	L&T	1734 Cr.

Location Advantage

Dholera SIR TP 1	3.5km
Metro & Express way Connectivity	5km
Dholera International Airport	8km
Ahmedabad (By New Express Way)	75km
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Mumbai	500km

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Product Range	
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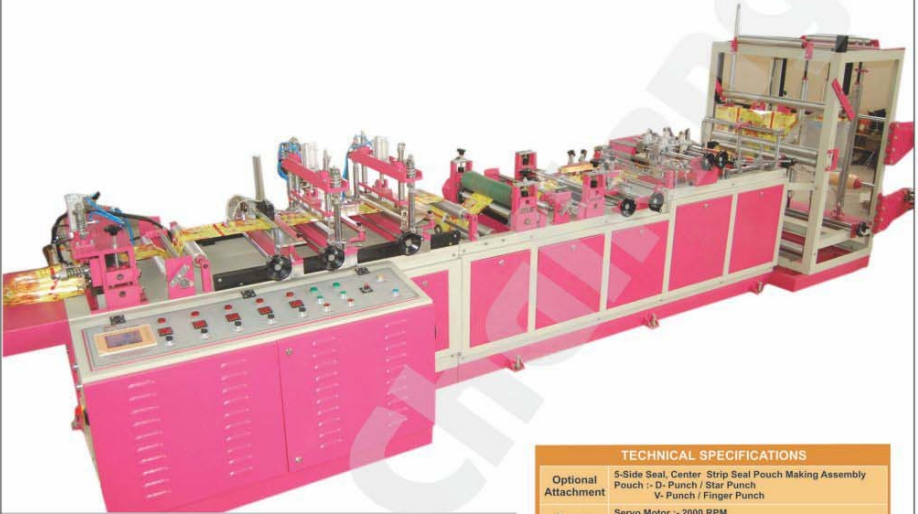
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- ▶ Center seal, center seal with gusset, center lip seal pouch making machine
- ▶ 3 side seal, folded side seal, Perforation pouch making machine.
- ▶ 2 and 3 side seal, Zipper and pouch making machine.
- ▶ Combined center seal, 3 side seal, perforation, five side seal pouch making machine.

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- ▶ 3 side seal, zipper, stand up pouch making machine.
- ▶ Automatic high speed combination of 2 and 3 side seal, Zipper,
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Optional Attachment	5-Side Seal, Center Strip Seal Pouch Making Assembly Pouch -> D-Punch / Star Punch V-Punch / Finger Punch
Movers	Servo Motor -> 2000 RPM Variable -> 2HP With Gearbox
Elect. Power Consumption	MAX. 16KW - 3PH 415V (A.C.) 50HZ
Air Consumption	12 Cfm 7 Bar Pressure
Machine* Speed	Water Contain Less Than 0.01% Up to 182 P/Min.

*Machine Speed Depends Up Laminate, Thickness & Pouch Size

MODEL - PTP - 450P

	Center Seal (WXL in mm)	Side Seal	Four Side Seal + Glasset
Pouch Size	Min-75 X 75	50 X 50	90 + 50 X 75
	Max - 375 X 1000	400 X 1000	275 X 500 + 100
Max Roll Width	800 mm		



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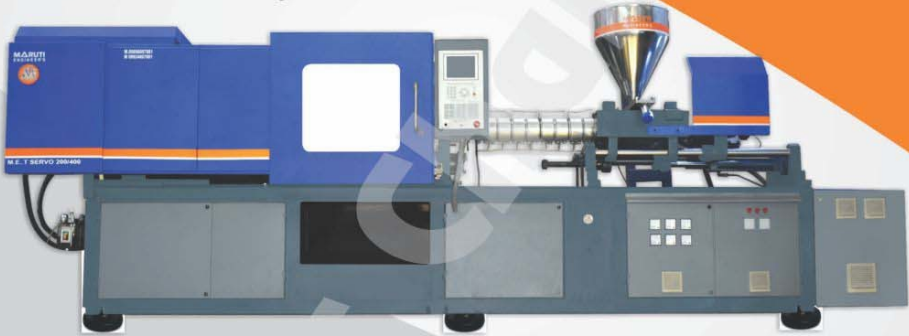


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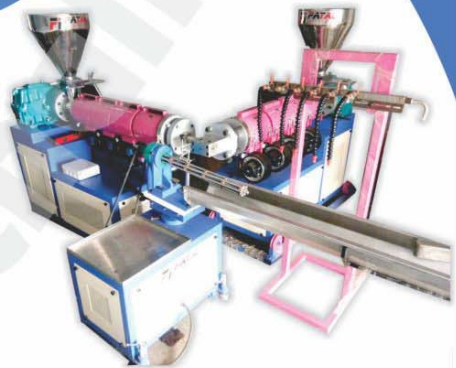
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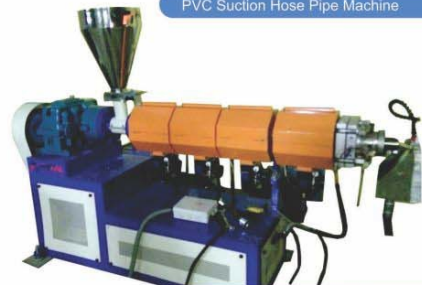
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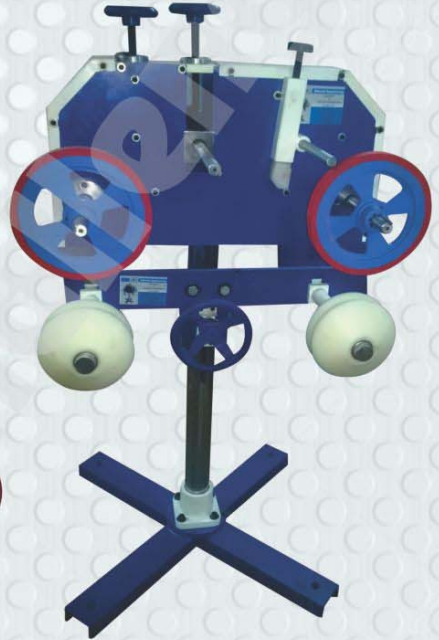


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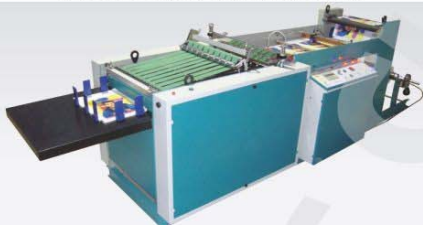
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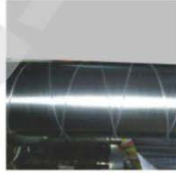
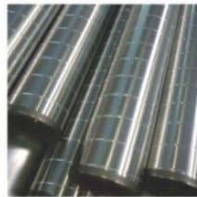
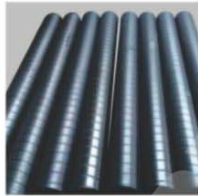
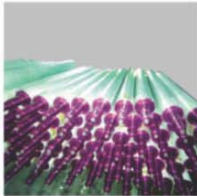


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6th edition of COMPLAST 2018, the great show of plastics shall be performed in Nairobi, Kenya,



Complast Kenya is a 3 day event being held from 13th July to 15th July 2018 at the Kenyatta International Convention Centre Nairobi, Kenya. This event showcases products like Raw materials, polymers & resins, intermediates, blends & alloys, composites, testing equipment, software solutions and much more etc. in the Plastic & Plastic Products industry. Since last 10 years Kenya's growth is in top gear and big players and industrialist have taken serious interest in investment and offered all kind of technological help. Kenya Plast is a trade fair for plastics products and takes place in Nairobi. This exhibition is communication and information platform in the industry and offers the exhibiting companies the opportunity to present to an audience of experts here. Visitors can find in depth and comprehensive information here about the latest developments, trends, products and services in various fields. Kenya Plast is a 3 day event being held from 13th June to the 15th July. 2018 at the Kenyatta International Conference Centre (KICC) in Nairobi, Kenya. This event showcases products like promote the international ties between Kenya in particular and India and is a trade fair that witnesses the presence of products from the Indian industry and includes Indian



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The event shall become leading platform to showcase the latest machineries and global manufacturing trends. It will

provide the regional plastic processors an opportunity to source the complete range of plastic converting requirements from raw material, additives, molds and machinery.

Kenya has a warm and humid tropical climate on its Indian Ocean coastline. The



climate is cooler in the savannah grasslands around the capital city, Nairobi; especially those closer to Mount Kenya, which has snow permanently on its peaks. Kenya is known for its world class athletes in track and field and rugby. Thanks to its diverse climate and geography, expansive wildlife reserves and national parks such as the East and West Tsavo National Park, Amboseli National Park, Maasai Mara, Lake Nakuru National Park, Aberdares National Park and white sand beaches at the Coastal region, Kenya is home to the modern safari and has several world heritage sites such as Lamu and a number of beaches, including in Diani, Bamburi and Kilifi, where international yachting competitions are held every year.

Industry and manufacturing is the smallest sector, accounting for 16% of GDP. The service, industry and manufacturing sectors only employ 25% of the labour force but contribute 75% of GDP[101] Kenya also exports textiles worth over \$400million under Agoa.

- Editor
Rajesh Gohil



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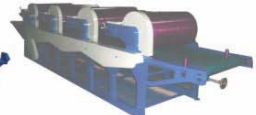
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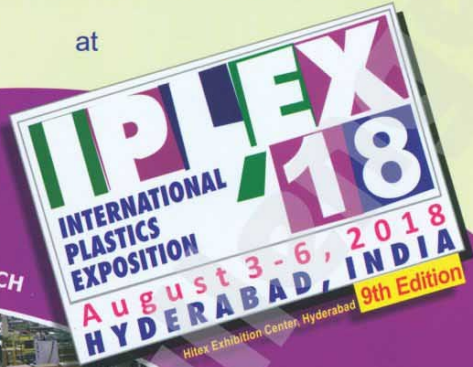
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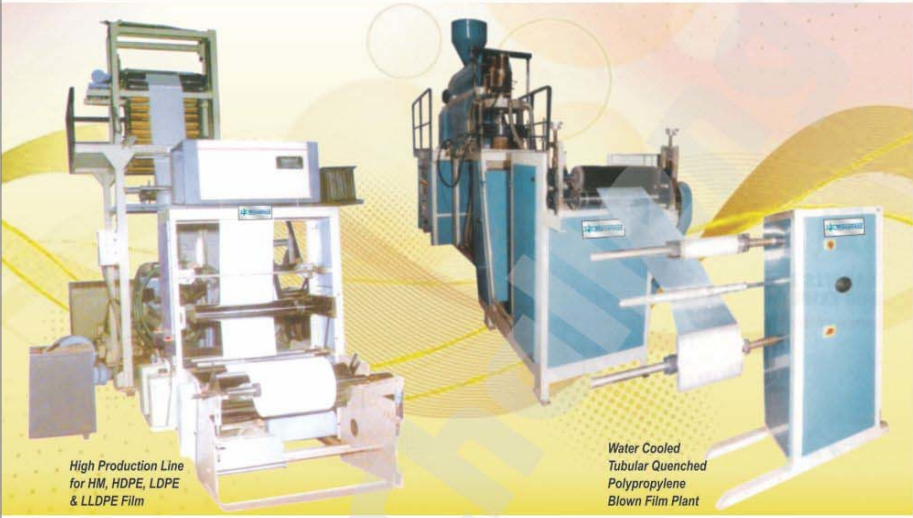
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Packaging Equipment Bring Performance Improvements

Plasti

Performance improvements apply to packages, as well as to packaging equipment. This article will show packaging equipment that improve their efficiency to help give your entire production line a boost.

*InvisiPac HM25c Tank-Free Hot Melt Application System

A compact design of the Graco InvisiPac HM25c Tank-Free hot melt application system integrates easily into existing packaging lines. The benefit of this on-demand system is the elimination of adhesive char and the inevitable downtime for maintenance. Graco InvisiPac uses melting chambers that have a greater melting surface area versus the typical tank-based systems or reservoirs with melting fins. This means the equipment can melt the adhesive fast and dispense it immediately so waxes in the adhesive don't evaporate, which saves on material costs.

Since the adhesive doesn't sit in a tank and char, frequent downtime for cleaning out plugged up nozzles is a thing of the past. Operators use InvisiPac hot melt systems can go over a year or more without changing settings or even touching the system, depending on the application. Additionally, the InvisiPac HM25c is equipped with LineSite remote monitoring, so production managers can receive real-time performance reports and notifications to make sure their packaging lines keep producing.

*USI-Sonixs Side-Seal Strapping System

The USI-Sonixs side-seal strapping system uses the Sonixs ultrasonic sealing system to create strong seals with no smoke, no warm up time and low energy use.

With a long system life, low operating costs and affordable replacement parts, the Sonixs strapping head can secure loads up to 1.8

meters wide (almost 6 feet) by 2.75 meters high (9 feet). It applies tension of 450 lbs to plastic straps (polypropylene or polyethylene) with up to 750 lbs breaking strength.

Available with operator-initiated or automatic cycling, the unitizer is often integrated into a conveyor line and indexes to meet the side of the load to be secured. It offers optional pallet void Feed, Underfeed Or Automatic through/underfeed.

*MK-U Series Inkjet Printer

The updated MK-U Series continuous inkjet printer has a unique auto-cleaning function that uses 70% less solvent yet ensures a deep cleaning. The system uses high-pressure pulsed jets of solvent to clean the ink path, nozzle, electrode plates and gutter all at once. No printhead disassembly or manual cleaning is needed.

Benefit of this system is using less fluids for lower cleaning costs. Also, minimizing exposure to chemicals is safer for employees. It is more efficient, too, because an operator can press the "clean" button and do other tasks while the system does the cleaning automatically.

*2.5D Cobot Packaging

Generally, robotics offer a high level of production flexibility due to their ability to be reprogrammed for a new task. Collaborative robots take that up a notch by also operating more flexibly in a plant environment along with fellow human workers. Universal Robots will be demonstrating how its cobot arms have been used by integrator Robotic Vision Technologies to pick-rotate-and-place parts/products off a conveyor in 2.5D.

What 2.5D means is a combination of 3-dimensional position (X, Y and Z) and 1-dimensional rotation (R). Essentially, this is a standard 2D solution with depth information. The robot can just as easily find pieces that are stacked two to three high.





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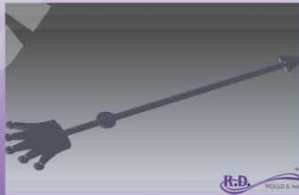


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Packaging Equipment Bring Performance Improvements

Performance improvements apply to packages, as well as to packaging equipment. This article will show packaging equipment that improve their efficiency to help give your entire production line a boost.

***InvisiPac HM25c Tank-Free Hot Melt Application System**

A compact design of the Graco InvisiPac HM25c Tank-Free hot melt application system integrates easily into existing packaging lines. The benefit of this on-demand system is the elimination of adhesive char and the inevitable downtime for maintenance. Graco InvisiPac uses melting chambers that have a greater melting surface area versus the typical tank-based systems or reservoirs with melting fins. This means the equipment can melt the adhesive fast and dispense it immediately so waxes in the adhesive don't evaporate, which saves on material costs.

Since the adhesive doesn't sit in a tank and char, frequent downtime for cleaning out plugged up nozzles is a thing of the past.



Operators use InvisiPac hot melt systems can go over a year or more without changing settings or even touching the system, depending on the application. Additionally, the InvisiPac HM25c is equipped with LineSite remote monitoring, so production managers can receive real-time performance reports and notifications to make sure their packaging lines keep producing.

***USI-Sonix Side-Seal Strapping System**

The USI-Sonix side-seal strapping system uses the Sonix ultrasonic sealing system to

create strong seals with no smoke, no warm up time and low energy use.

With a long system life, low operating costs and affordable replacement parts, the Sonix strapping head can secure loads up to 1.8 meters wide (almost 6 feet) by 2.75 meters high (9 feet). It applies tension of 450 lbs to plastic straps (polypropylene or polyethylene) with up to 750 lbs breaking strength.

Available with operator-initiated or automatic cycling, the utilizer is often integrated into a conveyor line and indexes to meet the side of the load to be secured. It offers optional pallet void feed, underfeed or automatic through/underfeed.

***MK-U Series Inkjet Printer**

The updated MK-U Series continuous inkjet printer has a unique auto-cleaning function that uses 70% less solvent yet ensures a deep cleaning. The system uses high-pressure pulsed jets of solvent to clean the ink path, nozzle, electrode plates and gutter all at once. No printhead disassembly or manual cleaning is needed. Benefit of this system is using less fluids for lower cleaning costs. Also, minimizing exposure to chemicals is safer for employees. It is more efficient, too, because an operator can press the "clean" button and do other tasks while the system does the cleaning automatically.

***2.5D Cobot Packaging**

Generally, robotics offer a high level of production flexibility due to their ability to be reprogrammed for a new task. Collaborative robots take that up a notch by also operating more flexibly in a plant environment along with fellow human workers. Universal Robots will be demonstrating how its cobot arms have been used by integrator Robotic Vision Technologies to pick-rotate-and-place parts/products off a conveyor in 2.5D.

What 2.5D means is a combination of 3-dimensional position (X, Y and Z) and 1-dimensional rotation (rZ). Essentially, this is a standard 2D solution with depth information. The robot can just as easily find pieces that are stacked two to three high.





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Our organization has established itself with firm determination and great dedication. We have a well-managed infrastructure that has various advanced departments. These departments cater to innumerable needs of the customers and deliver an unmatched range of products. Our organization proudly meets the requirements of our clients based in East Asia, South East Asia, Middle East and the Indian Subcontinent. Also, for the convenience of our clients, we facilitate them with easy payment modes and terms. Our organization delivers products on time and in a flawless condition. We have been certified with **ISO 9001** for total quality management.

We are successfully achieving the set targets on time, under the able guidance of our mentor "**Mr. Mafatal M. Paradia**". His vast knowledge and expertise are the sunbeams of bright prospects that lighten up our organization.



About Jailaxmi Engineering Corporation

After making a humble beginning in 1980, Jailaxmi has become a trusted name in plastic processing industry and reached well throughout India with hundreds of plants installations. We provide an ultimate and customized solution taking into consideration the ease of operation by operators and by the processors in day to day operation.

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(in our plants the future technology is up-to-date). The set-up is in accordance with the changing market trends and we are constantly upgrading the working facilities and equipment to serve our customers better.

The company entered into development of various extrusion systems and delivered its first HM/HDPE Film Plant in 1981. And since then, never looked back, continuing to add one after the another extrusion line into its product range quality. **Jailaxmi Engineering Corporation** feels proud to claim ourselves as market leaders in the field of Plastic Machinery manufacturers. You will find our presence all over India. We are trust worthy name amongst the hundreds of customers who became



become cost efficient and successful with high returns on investment, by **lowest running cost of plant in years of use.**

The company is situated in Navsari City (South Gujarat, India).

About Navsari :

Navsari is birth place of Jamshedji Tata, the founder of TATA Group. Navsari is the town of Dadabhai Navroji, first Parliamentarian in British Parliament. The historical place DANDI is located at the outskirts of Navsari from where Mahatma Gandhi began **Salt agitation against British Empire.** Navsari is located between Mumbai and Ahmedabad, which is 30 km from Surat and 80 km from Vapi Industrial Zone.

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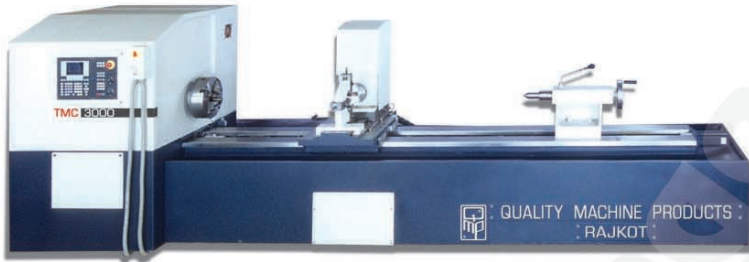
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New Pouching and Cartoning Lines Get a Boost from Delta-Style Robot

Plasti

Single-serve 30-g pouches of powdered meal replacements for people on weight loss programs

have been flowing out of Medifast's headquarters facility at a brisk pace over the last few years

as demand for the clinically proven and popular products has been strong.

The new pouching and cartoning lines at Medifast get a boost from a delta-style robot.

Each of the new lines is anchored by a pouching system from KHS Bartelt as well as an end-load

cartoner from the same supplier. Uniformity in pouching equipment from one line to the next was

a big driver behind Medifast's choice of putting Bartelt equipment in both lines.

Accuracy of fill is also a key.

While pouching systems and cartoners on the two new lines are essentially the same as on systems Medifast has operated in the past, dramatically different is what's in between poucher

and cartoner: a continuous-motion delta style robotic system from Codian Robotics that uses

vacuum cups to pick laid-flat pouches two at a time from a Dorner conveyor and neatly stack them seven-high in collating buckets on the cartoner infeed.

Once two buckets have their full complement of pouches, they're advanced in the direction of

the cartoner and two new buckets move into place to be filled. The full buckets, meanwhile, index into the cartoner so that the seven-

count stacks of pouches can be pushed into a tuck-style paperboard carton.

Making this high-speed robotic transfer even more intriguing is that the robot's end-of-arm tooling rotates every other pouch. The powder tends to bunch up at the bottoms of the pouches so that you have a fatter bottom and a very thin top.

If you stack seven of them this way, you're looking at a stack that is very unstable, which naturally leads to handling problems and frequent jams on the cartoner.

By alternating the pouches this way, we have a much more uniform, repeatable, and stable stack.

While KHS Bartelt's choice for robotic hardware was Codian, the robotic infeed system and the robot itself are controlled by the five-axis cartoner's Bosch Rexroth IndraMotion MLC motion

logic control platform, which is similar to the controller governing the upstream eight-axis poucher.

This control platform delivers all the motion and robot control capabilities needed for what a controls geek might call "multiaxis path interpolation in space." The control platform

so accurately synchronizes the movement of the delta style robot to the movement of the pouches on the Dorner conveyor that the robot "knows" exactly where in space to go each time it needs to pick a pouch—even though the pouches are moving targets.

The Bosch Rexroth platform features a full software library of ready-to-use kinematics for robotics applications and supports fast set-up configuration using onscreen dialog boxes.

The Rexroth IndraControl L65 is a powerful, scalable unit featuring a compact design and integrated standard interfaces, including Ethernet TCP/IP and Sercos.

Bosch Rexroth's controller provides all the functionality and processing power that was

Continues On Page No.: 57



New Pouching and Cartoning Lines Get a

required for both the delta robot and the cartoning machine. The IndraMotion MLC controllers

for the poucher and cartoner are networked together using an external controller-to-controller Sercos interface, which fully integrates control of the packaging process from pouching through cartoning.

With the logic of the controller, the delta robot can track each pouch's position deterministically in real time coming off the poucher and checkweigher without requiring a vision system.

The pouching throughput speed can change and the robot will respond to the change without interruption. Networking both controllers and having the robot and the cartoner

share one control platform also made it relatively simple and more cost-effective to integrate the robot into Medifast's existing systems. Rexroth's user-friendly IndraWorks programming package was used to program the IndraMotion MLC platforms with a single uniform programming environment for logic, motion, and kinematics.

The robot is powered by Rexroth IndraDyn servo motors coupled with intelligent IndraDrive M servo drives. Both pouching and cartoning machines use Rexroth's IndraDrive Mi cabinet-free integrated servo drive/motor solution, which merges the drive electronics and servo motors into

single units that help reduce cabling requirements and the size of the control cabinet as well as the overall machine footprint. Using the IndraDrive Mi allowed KHS to eliminate a freestanding drive and control cabinet and use a smaller, machine-mounted cabinet. Removing the cabinet

and adding a delta robot let KHS align the poucher and cartoner in a straight, in-line orientation, thus streamlining the physical footprints of the

two new lines.

A human-machine interface ties in with the Rexroth IndraMotion MLC platform to control changeovers when different products are processed. Depending on the product,

the pouch can be thinner or thicker, which changes how the robot stacks the pouches.

According to Marburger, the Rexroth controller makes adjusting the robot arm's positioning a snap.

Medifast uses Overall Equipment Effectiveness (OEE) to track the performance of its manufacturing systems. Under the previous pouching/cartoning configuration the maximum

OEE they were able to achieve for a single shift was 83 percent. The specific OEE tool used by Medifast is the XL Productivity Appliance from Verne. It's described as a "bolt-on," off-the-shelf hardware/software combination that can be installed and operating in an hour and comes with a price tag of about \$4,500.

Both lines operate essentially the same way. The pouching machine is fed a paper/foil lamination supplied by Veritiv. It indexes at 70/min, but pouches are produced two up so output is in the

range of 140/min. Integrated into the KHS Bartelt system is a High Resolution Thermal Ink-Jet Printer from Mark-O-Print. A division of the Bluhm Weber Group, Mark-O-Print has been an HP partner since 2003.

Information printed on the front side of each pouch is product name, expiration date, time of day,

line identification, lot number, and a list of allergens.

Timing the Mark-O-Print printer is a Smarteye Colormark II from Tri-Tronics that looks for a registration

mark on the packaging material and signals the printer when to print. Also inspecting for red splice

tape is a Mark-Eye Pro, also from Tri-Tronics, which signals the pouching system not to dispense product into pouches that might be compromised by a splice. As a pair of pouches nears

the pickoff station and their exit from the poucher, a knife cuts them apart. Vacuum cups pick each pouch

from the mechanical grippers they're held in and places them on a pair of pedestal checkweighers from Mettler Toledo.

Here's another place where the Bosch Rexroth controls platform adds value. The robot takes inputs from

the checkweighers and only picks up and collates the good pouches, while any rejects

continue advancing

forward until they fall into a reject bin. This represents a significant improvement over the pouching/cartoning lines installed previously at Medifast, where the mechanical pouch stacking system

is designed to always place two pouches at a time into two collating buckets. That way, both collating

buckets will always have the correct complement of seven pouches each. If the checkweigher

determines that either pouch has the wrong weight, two pouches are ejected to the reject bin

even though one of them is perfectly accurate. Why? Because if the checkweigher ejected only

the bad pouch, one of the two collating buckets would be short a pouch when the collating bucket

reached the station where the stacks of seven pouches are pushed into the cartons.

With the new robotic approach, only bad pouches get rejected. Neatly collated seven-count stacks

of pouches move into the cartoner in their collating buckets and are automatically pushed into a carton.

Flaps are tucked closed and operators then case pack the cartons by hand. Assisting them is the

Combi EZ-Pack semi-automatic pack station from Combi Packaging Systems. An operator picks up

a folded corrugated case, opens it along the manufacturer joints, and places it into the bottom-folding section of the machine. Once the bottom is folded, the operator places the required

number of cartons inside and then pushes the case through the Combi system's top-and-bottom

taping section. Palletizing is done by hand.

Although this was the first time Medifast installed delta robot technology in their plant, the company's

past experience with KHS Bartelt gave everyone confidence that the move to robotic transfer

would be a success.





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RECYCLING WITH WPC

WOOD-PLASTIC COMPOSITES (WPC'S)

WPC's are composite materials made of wood fiber / flour and plastics. In addition to wood fiber and plastic, WPC's can also contain other inorganic filler materials. WPC's can also be referred to as natural fiber plastic composites or natural fiber reinforced plastics. 100% Use of Waste Plastics (Dry & Cleaned) can be used to make WPC's.

U S E S

The most widespread use of WPC's is in outdoor deck floors, but it is also used for railings fences, landscaping timbers, cladding and siding, park benches, molding and trim, window and door frames, and indoor furniture. Manufacturers claim that wood-plastic composite is more environmentally friendly and requires less maintenance than the alternatives of solid wood treated with preservatives or solid wood of rot-resistant species. These materials can be moulded with or without simulated wood grain details.

Wood-plastic composite is still a very new material relative to the long history of natural lumber as a building material, but can be substituted in most non-structural instances. Although being highly resistant to rotting, WPC's add a stage of upstream use to materials previously considered waste lumber. WPC Lumber can be nailed, painted, varnished, cut and finished similar to wood products.

A major advantage over wood is the ability of the material to be molded to meet almost any desired spatial conditions. It can also be bent and fixed to form strong arching curves. With up to 70 percent cellulose content (although 50/50 is more common), wood-plastic composites behave like wood and can be shaped using conventional wood working tools. At the same time, they are moisture-resistant and resistant to decay, although they are not as rigid as wood and may slightly deform in extremely hot weather. A major selling point of these

materials is their lack of need for paint as they are manufactured in a variety of colours, though they are mainly available in grays and earth tones. These colours last for the lifetime of the product.

MANUFACTURING PROCESS :

Wood-plastic composite lumber is composed of wood from recovered saw dust and other cellulose-based fiber fillers such as pulp fibers, rice husk, peanut hulls, bamboo, straw, digestate, other husks, etc. and virgin or mix waste plastics including PE, PP, ABS, PS, alike. The powder or fibers are mixed to dough-like consistency and then extruded or moulded to the desired shape. Additives such as colorants, coupling agents stabilizers, blowing agents, reinforcing agents, foaming agents, lubricants help tailor the end product to the target area of application. The material is formed into both solid and hollow profiles or into injection moulded parts and products.

Wood, resin, regrind and most of the additives are combined and processed in a pelletizing extruder. The new material pellets are formed in mould and dried or extruded from a fix shaped profile die.

Plastic waste is first cleaned with a Dust Remover (Jatakia) Machine. It is then cut into small pieces using a Grinder/Agglomerator. During Grinding also, separated dust is removed from the regrind with the help of dust remover. The grinded waste is then pre-mixed in a slow/high speed mixer together with wood, husk or other fillers and other additives as required depending on end use of the profile. The mix is then put through a Force Fed, Vented Extrusion System. The melt passes through vacuum duly compressed and then extruded through the die or required shape to achieve the profile. The profile then passes through a water bath to cool faster and then cut to the required length.





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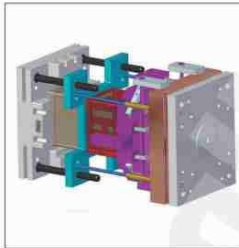
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Carat Mould

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Eleptical Tub



Eleptical Tub Mould



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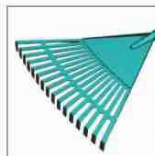
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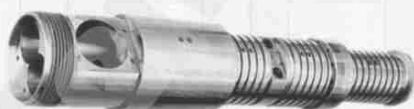
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GE-RE-75HV	75-85	32	18.75 KW	58.3 KW	15" / 11.25	6.7 x 2.5 x 4.3
GE-RE-90V	100-110	32	22.5 KW	63.35 KW	18" / 18.75	7.3 x 2.5 x 4.3
GE-RE-100V	130-150	32	37.5 KW	98.4 KW	18" / 22.5	7.7 x 2.6 x 4.3
GE-RE-120V	160-200	29	45 KW	111.5 KW	21" / 30	7.9 x 2.7 x 4.3
GE-RE-120HV	250-300	32	56.25 KW	137.5 KW	21" / 30	8.2 x 2.7 x 4.3

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- Suitable for light, Semi dense & dense Material.
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MINI Bopp Tape Cutting Machine



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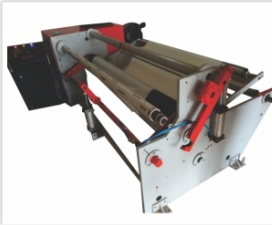


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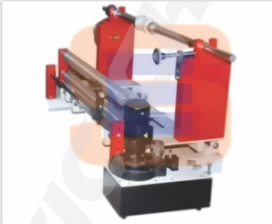
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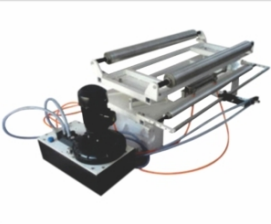
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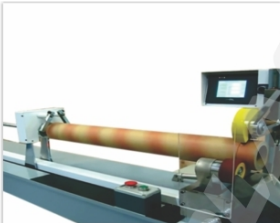
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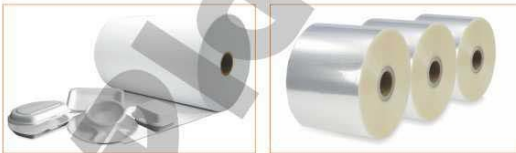
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