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Forthcoming Exhibitions Page No. : 30 | Editorial Page No. : 09 | March 2017 Issue | Vol. No. : 19 | No. : 02 | Pages : 72 | Rs. / 200 | \$: 10



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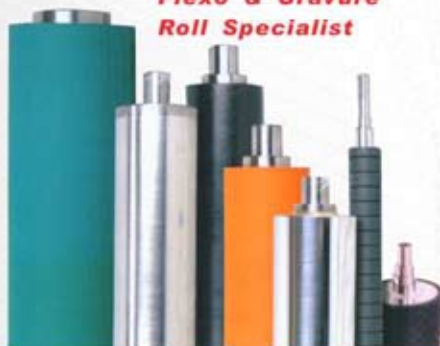
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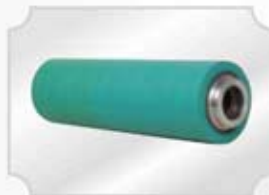
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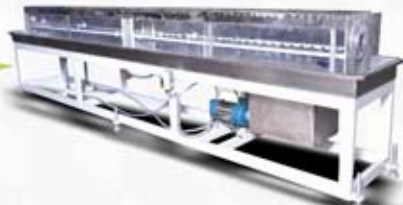
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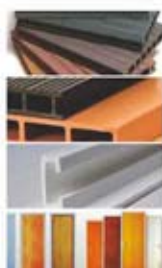
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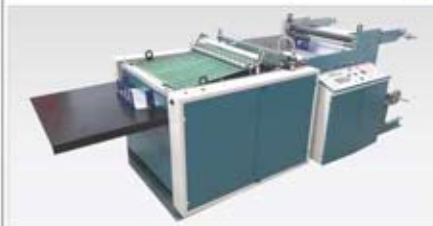
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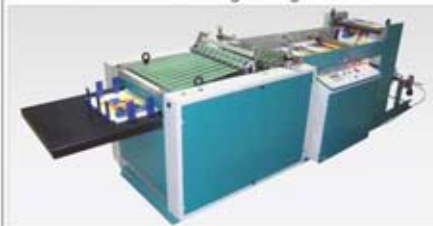
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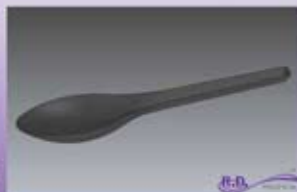
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and its manpower. Indian manufacturers are now making the machineries which can compete the foreign machinery. Our machineries is more cheaper than any other countries and give excellent results which can be know from the export figures of exported machineries. This clearly means that India's machineries are now worldwide



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Oman is a leading country in all Saudi Arabian countries and having all kind of infrastructure which an industries or business need. Since last 15 years Middle East countries are developing very fast and competing with the world by inviting the new investors, businesses and technologies. After oil exploration industries this countries are taking interest in other businesses and so an earning from petroleum business have been diverted to develop in new capital based industries and businesses.

In the latest scenario oil prices are losing its bottom as other countries are not reducing the quota of oil storage and oil supplying. Some Arab countries are not interested in production cutting of oil. On the other hand European countries and other countries have found new oil wells and started using their own oil production. International crude oil market is also not interested in price hike due to heavy competition in this business. Moreover Gold and Silver market is also not growing due to various kinds of laws and regulations. In the bullish time of 2007 to 2009 the peak shown by the Brent crude of 115 USD the same days are now like a dream. All oil manufacturing and it's accessories manufacturing companies are under pressure.

In this situation Indian plastic manufacturers have a golden opportunity to develop the new market of Middle-East countries. Our manufacturers are now sharp in quality and services as far as plastics industries have concern. Moreover we can supply our manpower also to these countries as our manpower is very trained to work in any hottest climate. The same factor is negative for the European countries

acceptable. India is exporting plastic manufacturing machineries to African and Middle East countries. India have developed itself in all industrial sectors like Plastics, Rubber, Petrochemicals, Printing and packaging, woodworking, Road and Building, Satellite technology and Communication, Real Estate, Construction and Infrastructure businesses. All major sectors in India are developing very fast and world technocrats are noticing all this facts. Foreign investors are now very keen to invest in India. The giant communications were of the view that that demonetization of currency notes from economy shall ruin the economy of India but it has not effect much as told by the so called experts. The picture is reverse than predicted. This declares the trust in the leadership of India which is led by PM Shri Narendra Modi. After so many years India has got the best leader who is widely loved in the people of India.

Last 5 states election has shown the trust in current government. It proves the satisfaction and trust in PM who has done his best in a short spell. Industrial sectors are very much pleased on this leadership who is taking enough care for the development of country. A real labor taken by the PM is clearly visible to all and any other argument have no space left to challenge.

We, THE ORIENT SP-AGE PUBLICATIONS wishes grand success to OMANPLAST 2017.

THE ORIENT SP-AGE PUBLICATION CONGRATULATES TO PM SHRI NARENDRA MODI ALSO for getting excellent election result in his favour.

- Editor
- Shri Bharat Joshi



The Magazine For Plastic Industries

The Orient SP-Age Publications

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Businesses are continually looking for ways to identify cost savings and implement energy efficient solutions. Screen printing companies specializing in flexible membrane switches (flex circuits) are no different in their approach to screen printing and die cutting their stable of products. As capital expenditures begin to loosen, equipment manufacturers are hard at work to design and build equipment that directly addresses the bottom line. It is back to the basics for many equipment manufacturers who are busy looking for technology advancements and innovation. Now is the time to develop a new way to produce the same product that will save any company significant money.



Contact Dryers vs. Traditional Air Dryers

There are many applications where traditional air drying systems continue to make for a good investment. They are typically 15% cheaper than contact dryers, which is a deciding factor for many businesses. However, when you peel back the benefits of the contact dryer over traditional air drying equipment the initial investment savings quickly go away.

Conventional air drying ovens blow heat over the surface of a web or sheet of material. In general, inks harden by drying, or evaporating the solvent out of the ink. There are three factors that contribute to how fast they will dry using an air dryer: temperature, amount of air flow and air humidity. A contact dryer uses a heated platen along with surface air assistance to dry the ink from the bottom to the top therefore capturing heat energy below the surface of the printed substrate. Since many inks require different temperatures and drying time the more consistent and concentrated the heat the better and more efficient the drying process.

For example, if an electro-conductive ink requires a drying temperature of 100 C to fully dry the ink on a given substrate. As the air travels across the surface of the ink the heat dissipates

quickly. This can be very inefficient since most of your heating elements need to be constantly brought back up to the required temperature. Since a contact dryer uses a heated platen that dries the ink from the bottom to the top this eliminates "skin effect" on the ink because the drying begins below the surface of the ink and finishes at the top. Once the heated plate reaches the desired heating temperature it can be up to 70% more efficient because the heat is captured and does not require constant energy to the heating elements. The heated platen usually contains three heating elements within the system. Generally, the third heating element at the end of the dryer requires much less energy because the heat remains constant from beginning to end. A hot air dryer consistently requires the same amount of energy throughout the dryer because of the loss of heat when blowing air across the surface.

Traditional Die Cutting vs. Laser Die Cutting

When looking at the finishing end of your printing business it is important to take into consideration run lengths, registration requirements and cut quality. Traditional die cutting equipment like flat bed die cutting has been the standard. As the trend for shorter run jobs continues to creep into the printing industry the need for a flexible, accurate die cutting solution is evident. Gantry laser cutting systems have been working on flexible membrane switch applications because of the accuracy (+/- 0.1mm or better) and flexibility. The bigger issue has been the speed. A gantry laser system mechanically moves the material OR the laser head into position while it is cutting. A galvanometer (galvo) laser system offers flexibility, speed and relative accuracy by remaining stationary above the roll or sheet of material and allowing micro movements of mirrors to redirect the laser light around the die cut line.

Continues On Page No. 36

Contact Dryers & Die Cutting (Laser & Traditional): "Cutting Costs And Time", Specialist Printing



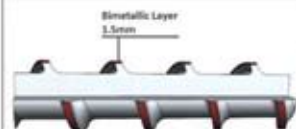
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Screws For
Extruder



Twin Barrel



The debate between either a gantry or galvo laser die cutting system is a sub-plot of the overall die cutting discussion. Cut quality remains a question mark for many first time technology gazers, however, companies are constantly testing different substrates to assure for quality products. Polyesters, polycarbonates, paper and many other materials are candidates for laser cutting while research laboratories have been set up by many equipment manufacturers to evaluate any quality concerns.

In the past, accuracy was a question mark for galvo laser die cutting systems but with the integration of XY plotter tables into galvo sheet fed laser designs this argument has subsided. For example, the lead on a flexible circuit may be identified as the most critical part of the circuit. If this lead (or plug) does not meet a minimum requirement of +/- 0.1mm or better then the part may be considered defective. Since the gantry system moves to the desired cut point it maintains the necessary accuracy. The galvo system is mounted a fixed distance above the sheet so cutting a part on the edge of a sheet can

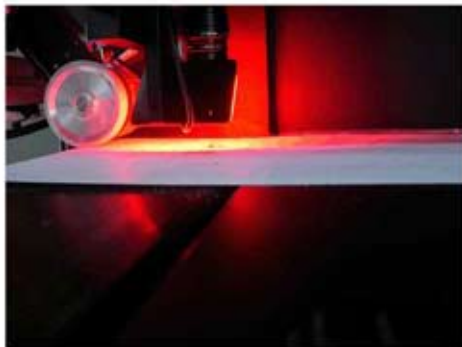
create accuracy issues. By moving the table (or the head in certain applications) to a predetermined position the accuracy of the galvo laser die cutting system reaches +/- 0.1mm.

Include in the discussion the lost time in waiting for new tools to arrive or the set up/make ready required for installing a new tool and laser die cutting begins to make sense. The initial hurdle for this technology can be price as is the case in the above section about drying systems, however, following the initial investment the laser die cutting systems eliminates the need to purchase tooling for new product designs or replacing damaged dies. In order to evaluate the viability of laser die cutting technology a screen printers must first look at the inventory of tools on their shelves and determine if the pain is such that removing these tooling costs is enough to justify an investigation. Cut quality, return on investment and speed requirements will all take care of themselves upon consultation with a laser die cutting equipment provider.

In summary, each new technology requires greater initial investment, however, once you look past the price tag there are many benefits to consider. The most important thing is always to identify pains and have good information to solve any given issue.

Removal of weekly, monthly, yearly expenses of tooling offers the biggest cost savings for any finishing department.

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Improved Dry Vacuum Calibration Tables

Dry vacuum calibration tables were developed in response to the need to hold complex plastic profiles to very tight tolerances while they were being cooled in the extrusion process. Tables were developed to hold the calibration tooling needed to produce tight tolerances at high output rates and to allow for the easy changeover from one part to another. Although the calibration tooling is needed to achieve this, it is very expensive and alternate methods have been developed to increase rates without building longer and longer calibration tooling. Tables had to be modified to be able to handle the alternate cooling methods.



CALIBRATION TOOLING

The calibration tooling can be made from aluminum for better heat transfer but it is normally made from stainless steel for better life due to the abrasive nature of filled plastics rubbing over the polished surfaces. The internal surface is cut in the shape of the desired profile and highly polished for low drag resistance. Cooling channels are cut into the tooling for flow of the critically important cooling water. In addition, channels are cut into the tool for vacuum to draw the plastic part out against the calibrator wall to make good contact to ensure cooling and obtaining the proper dimensions. Generally the tool is built to be "dry" meaning that no water touches the extruded profile in the calibrator. Some calibration is built to actually introduce a small amount of water or allow leakage of cooling water to act as a lubricant between the part and the metal surface. This can also improve the cooling efficiency.

The initial calibration tooling will smooth the



surface of the hot plastic material as it first enters the tooling. The primary job of the calibration tooling is to cool the part as it is controlled the size and shape of the plastic. The length of the calibration tooling will vary with the line speed of the extruded part, the complexity of the profile, and the dimensional tolerances required of the profile. Increasing any of the factors will increase the required length of the tooling. Calibrators are typically built in sections of 4 to 15 inches in length for ease of manufacture and handling. They are then used in sets to achieve the needed length of calibration needed for the profile either with or without gaps between each calibration block. Calibration of 4 feet or more is not uncommon in complex window profile lines.

Since the primary purpose of the calibration tooling is to cool the plastic as it is being held in shape, it is critical to have water channels through the tooling in the proper location for uniform cooling and then have adequate water flow to maintain the desired processing temperature. Typically chilled water that is maintained at 50° - 55° F is used to circulate through the tooling. Sometimes it is desirable for the first calibrator to be slightly warmer than the rest to better impart a smooth surface to the plastic and to reduce drag caused by shocking the plastic with the initial cooling. This warmer temperature in the first calibrator is generally achieved by adjusting the flow of water going into that first calibrator, however a temperature controlled unit can be used to assure consistent temperature.

Continues On Page No.: 38

Knowledge Center Profile Extrusion

CALIBRATION TABLES

Dry vacuum calibration tables have been developed and are offered by many companies that offer a convenient base on which the calibration tooling can be mounted. They generally provide a heavy duty frame with the vacuum and water pumps along with all the necessary plumbing, including filters, heat exchangers, etc., along with necessary controls. They allow for simple connection to modular calibration tooling so that it can be changed out easily. The tooling is mounted on some type of rail system for consistent alignment with itself. The table usually incorporates a tray system under the mounting rails to catch any leaking or stray water. Alignment of the calibration tooling to the extrusion tooling is critical so movement of the table is controlled by allowing adjustment of the positioning side to side and up and down. These linear movements are typically achieved by a hand wheel driving a gear system although a powered drive system can be used. Movement of the table toward and away from the extruder is usually driven because of the magnitude of the change that is needed.

AUXILIARY TANKS

An auxiliary tank is usually mounted on the calibration table after the initial calibration tooling in order to offer additional cooling for the profile. These tanks are typically 6 to 12 feet long. They are made to hold forming plates that continue to hold the part straight while the applied vacuum holds the part out against the forming plates to hold the size and dimensions. They are made to immerse the part in water with turbulent mixing to break up the insulating layer of water around the skin of the part. The tank itself is designed for water to be introduced at the front end of the tank and the vacuum is applied at the downstream end of the tank drawing the water through the tank. Turbulence is usually created by the placement of holes in the forming plates. Holes all around the part create some turbulence but alternating plates with holes above the part and below the part increase turbulence and water flow across the part, increasing cooling efficiency.

These types of tanks require a lot of water movement to achieve the turbulence required for good cooling efficiency. That water is being drawn out of the tank by the vacuum applied at the downstream end of the tank. This requires the use of liquid ring vacuum pumps that can handle both the air needed to pull a vacuum along with the



water that is being introduced for cooling and has to be sucked out of the tank. However, the more water that the pumps need to move reduces their efficiency to pull a vacuum which is their primary purpose. Therefore, larger horsepower pumps and more of them are needed to make this system work. Typically a 10-hp pump would be required for each 6 to 8 feet of auxiliary tank in addition to the vacuum requirements of the calibration tooling. In many high output applications 10, 20 or even 30 feet of auxiliary tanks are needed to achieve the desired cooling. All of these liquid ring vacuum pumps running at low efficiency because they have to pull so much water create a larger capital expenditure up front as well as higher on-going operating and maintenance costs.

BETTER SOLUTION

A better solution is to separate the water from the air so that each can do it's intended job. The air is needed to draw a vacuum while the water is needed for cooling. The use of a high intensity spray from nozzles that surround the part all the way down the tank provide the necessary volume of cold water for cooling without the need of

excessive volumes just to create turbulence. The intensity of the spray of cold water onto the surface of the part breaks up the layer of heated water that can slow down cooling. This volume of water drops to the bottom of the tank where it can easily be removed separately from the vacuum port. With this configuration, the vacuum pump needs to handle a significantly lower volume of water and can therefore be much more efficient. In fact a liquid ring pump may not be required allowing the use of a more efficient and lower horsepower Regenerative pump.

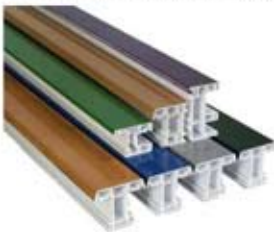
Early tables that utilized this technology had the drawback of having a fixed length of rail section for the dry calibration to allow for the specialized auxiliary tank. A new generation of hybrid dry calibration tables are being made that separate water pumping and vacuum systems and offer variable lengths to install calibration tooling. This adds the versatility that most processors require. This versatility can include adjusting spray intensity in different sections to optimize cooling as required, or allowing for different levels of vacuum or even different water temperatures in different sections of the tank.

In conclusion, these new dry vacuum calibration systems can offer the control of dimensions and size that end users have come to expect at higher rates and lower energy costs that processors are seeking. New calibration table designs make this both possible and convenient.

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Addition of anti microbial additives to plastic products prevent spoilage of food, beverages, medicines

The usage of antimicrobial additives in the packaging industry will witness considerable revenue growth at a CAGR of 7.1% from 2016 to 2025, as per Grand View Research. These additives are added to the plastic products to prevent spoilage of food, beverages, and medicines due to microbial contamination. Moreover, the rising number of fast food chains and restaurants are anticipated to drive the demand for packaging thereby increasing product demand. In addition, the increasing usage of these additives in the paper for packing medicines and food will create immense growth opportunities over the forecast period. Antimicrobial Additives market size worth US\$15.34 bln by 2025. Further key findings from the report suggest:

The global antimicrobial additives market demand was 57.4 kilo tons in 2015 and is projected to grow significantly on account of swift healthcare expansion in emerging countries such as China, India, Brazil, Mexico, Singapore, Saudi Arabia and Thailand. Europe accounted for 22.5% of the global volume share in 2015 and is anticipated to witness growth amid rising consumer demand for antimicrobial packaging, healthcare, food & beverage and paints & coatings products in the upcoming years.

Inorganic antimicrobial additives are expected to witness significant volume growth at a CAGR of 8.3% from 2016 to 2025 on account of increasing usage of silver ion. Excellent antimicrobial properties along with low toxicity of silver will spur market demand in the future.

Companies are focusing on extensive research to develop innovative products and technologies. For instance, in October 2016, Sanitized AG introduced Sanitized PL 14-32, a highly effective product for long-lasting antimicrobial protection for flexible polymer applications.

Antimicrobial additives market is estimated to be worth US\$3.95 bln by 2021 amid huge demand from APAC, as per Research and Markets. The growth of the antimicrobial additives market is primarily triggered by its huge demand from the Asia-Pacific region and growing end-use industries such as healthcare, packaging, food & beverage, construction, and automotive. The government proposals in Asia-Pacific to improve public infrastructure and rising cash-intensive non-residential

construction are driving the antimicrobial additives market. This, in turn, is contributing to the increasing demand for antimicrobial additives in the Asia-Pacific region. Silver-based antimicrobial additives are projected to grow with the highest CAGR between 2016 and 2021, amid higher demand owing to their non-toxic, environmental friendly and high thermal stability properties. Also, the increasing demand from various end-use industries such as healthcare, packaging, food & beverage, construction, and automotive is fueling the growth of the silver-based antimicrobial additives market. Since silver is the major type of antimicrobial additive, its growing demand drives the antimicrobial additives market. Research and Markets further states that the global antimicrobial additives market size is expected to reach US\$15.34 bln by 2025. The growing demand for healthcare products such as medical devices and disposables in emerging economies including India and China will fuel growth over the forecast period. Furthermore, increasing awareness among consumers regarding hospital acquired infections (HAIs) is expected to propel the demand for products with antimicrobial properties further.

Antimicrobial additives market value to increase to US\$16.2 bln by 2025, as per Future Market Insights, at a healthy CAGR of 8%. The benefits offered by antimicrobial products include quality enhancement of equipment/materials in terms of resistance towards microbial growth, improved product performance, and durability. Preference towards hygienic and disposable products and increasing health awareness are other key factors fuelling demand. Some antimicrobial additives are hazardous to the environment when disposed. Research initiatives by environmental institutions suggest that anti-bacterial chemicals constitute a significant portion of soil and water contaminants. The issue of safe disposal and harmful effects of these additives on the ecosystem is identified as a restraining factor for the growth of the market.

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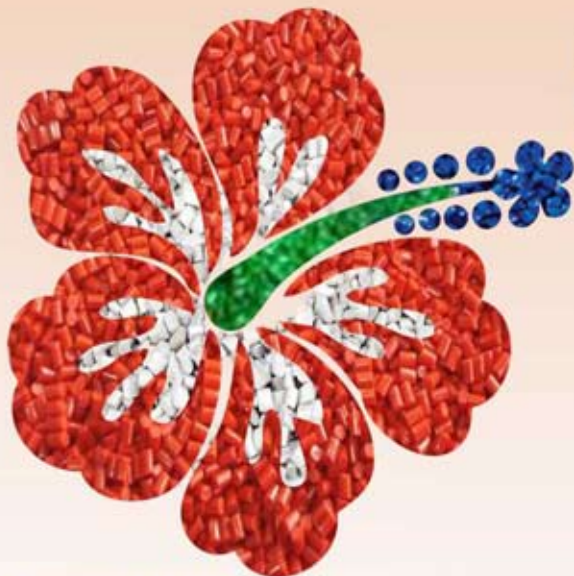


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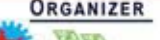
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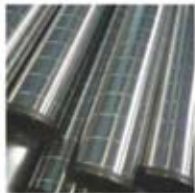
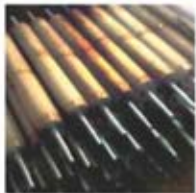
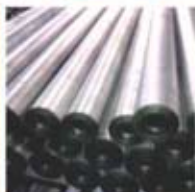
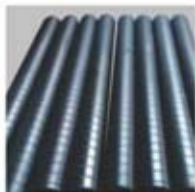
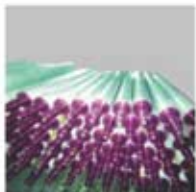


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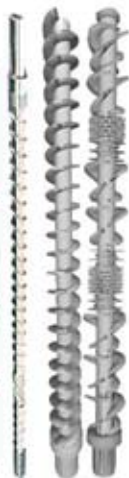
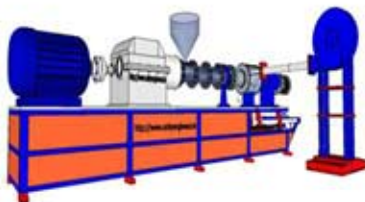
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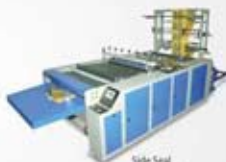
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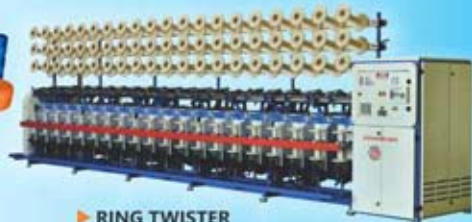
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- Low cost self-acting temperature so no risk to operators
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- Short cleaning cycle - 10-20-30 minutes
- Inside temperature controllable from 0°C to 500°C
- Easy to load and easy to unload
- Smoke/gas having temperature of 50° to 60° is blown out from the top pipe
- Heaters and blowers are connected to each other in electrical panel so that it leads to smoother operation and power saving
- Prevention (or reduction) of production line wastage due

to mesh • Saves manpower as well as the fatigue related to it • Improvement in the quality of output • Decrease in the cost of meshes.

Scope of supply:

- Electric furnace with stand
- Electric tubular heaters
- Electric panel for temperature control
- Temperature controller
- 'J' type temperature sensor
- Fork and shocks for handling
- Centrifugal blower (0.5)
- Bearing housing
- Blower stand with Motor
- Smoke/gas exhaust pipe with insulation cover

Features:

- Parts can be cleaned in short time
- Proper cleaning as per your requirement
- Temperature controller to control the cycle time automatically
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