



شرکت منابع ماشین سازی پدیده پارس
PADIDEH PARS
MACHINERY MANUFACTURING CO.



**PREMIUM
QUALITY
IS OUR
COMMITMENT**

English



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Padideh Pars at a Glance

Since 1979, Padideh Pars is a pioneering Iranian company and premium brand in the field of design and manufacturing of bottling and packaging machines for carbonated and non-carbonated soft drinks and edible liquids.

Nowadays, we are honored that our machines are being operated in packaging lines of more than 250 well-known domestic and foreign beverage production companies.

Padideh Pars Machinery Manufacturing Company
“Premium Quality Is Our Commitment”

- **Our approach:**
 - Accompanying the customer, from decision making stage to implementation stage.
 - Having a proper understanding of customer requirements and providing best solutions for them.
 - Taking benefit from state-of-the-art global technology.
 - Continuous improvement in products quality.
 - Enhancement of customers satisfaction.
- **Our mission:**
 - Playing a major role in developing and manufacturing of advanced and efficient bottling and packaging machines for the beverage industry.
- **Our vision:**
 - Increasing exports to foreign markets and positioning Padideh Pars name as a reliable Iranian brand in the beverage industry.

Our products:

- Rinsing , filling and capping machines.
- Filling and capping machines.
- Rotary rinsing machines.
- OPP Roll-fed labelling machines.
- Overlap shrink wrapping machines.
- Handle applicator machines.
- Belt and air conveyors.





Rinsing , filling and capping machines

Rinsing , filling and capping machines

Rinsing , filling and capping machines for bottling PET and HDPE bottles

These machines are designed in the 30, 45 and 70 nozzles types for bottling carbonated and non-carbonated soft drinks and edible liquids in PET and HDPE bottles ranging from 200 cc up to 1500 cc.

These machines have the following features:

- Fully automatic operation by PLC control.
- Color touch screen panel.
- Error diagnostic system.
- CIP system and dummy bottles.
- Filler tank and all the surfaces in the contact with “product or water” made of AISI 304 stainless steel or AISI 316 stainless steel upon request.
- Equipped with probe sensor to control product level inside the filler tank.
- Polyamide gears to reduce noise and vibration.
- Centralized lubrication panel.
- Separated or integrated electrical cabinet.
- Waterfall cap feeding and sorting systems.
- Easy change over of spare parts.
- Safety guards made of AISI 304 stainless steel with tempered glass.
- Ability to install AISI 304 stainless steel roof and Hepa filter on top of the machines.
- Ability to Install HDPE bottle head cutting system instead of rinsing system.
- Ability of cold and hot filling of non-carbonated products.
- Ability to manufacture machines with fruit pulp filling system.

Rinsing , filling and capping machines for bottling non-carbonated soft drinks

Model	Product type	Rinsing nozzles	Filling nozzles	Capping heads	Speed (bph)
630 A	Non-carbonated	30	30	10	5000 up to 10000
645 A	Non-carbonated	30	45	10	8000 up to 18000
670 A	Non-carbonated	50	70	10	12000 up to 24000

Rinsing , filling and capping machines for bottling carbonated soft drinks

Model	Product type	Rinsing nozzles	Filling nozzles	Capping heads	Speed (bph)
630 G	Carbonated	30	30	10	5000 up to 10000
645 G	Carbonated	30	45	10	6000 up to 16000
670 G	Carbonated	50	70	10	8000 up to 20000



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Rinsing , filling and capping machines
for bottling PET and HDPE bottles

Rinsing , filling and capping machine, Model 630



Rinsing , filling and capping machines for bottling PET and HDPE bottles

<p>Bottle infeed system</p>	<p>Empty bottles are transferred through the air conveyor into the rotary rinsing section by an inlet starwheel. Neck to Neck handling system is offered for both PET and HDPE bottles where the bottles are conveyed on their neck and requiring no height adjustment system.</p>	
<p>Rinsing system</p>	<p>Inside of bottles are cleaned by spraying water in a single-phase rinsing process. The rinsing nozzles have "No Bottle – No Spray System".</p>	
<p>Filling system</p>	<p>Isobaric filling technology (Counter Pressure) is used for bottling carbonated products. The filling operation is carried out under CO2 pressure (2-4 degrees celsius). Gravity filling technology is used for bottling non-carbonated products. Fast, simple and reliable mechanical valves, featuring "No Bottle - No Fill System".</p>	
<p>Capping system</p>	<p>The machine is equipped with stainless steel, magnetic and Pick&Place capping heads to apply plastic screw caps.</p>	
<p>Control system</p>	<p>The machine has PLC control system and color touch screen panel.</p>	

Rinsing , filling and capping machines

Rinsing , filling and capping machines for bottling glass bottles

This machine is designed in 30 nozzle type to bottle carbonated and non-carbonated soft drinks and edible liquids in glass bottles ranging from 250 cc up to 1000 cc with aluminum caps (Pilfer Proof). The bigger size machine can be manufactured upon request.

This machine has the following features:

- Fully automatic operation by PLC control.
- Color touch screen panel.
- Error diagnostic system.
- CIP system and dummy bottles.
- Filler tank and all the surfaces in the contact with “product or water” made of AISI 304 stainless steel or AISI 316 stainless steel upon request.
- Equipped with probe sensor to control product level inside the filler tank.
- Polyamide gears to reduce noise and vibration.
- Centralized lubrication panel.
- Separated or integrated electrical cabinet.
- Cap feeding and sorting systems.
- Easy change over of spare parts.
- Safety guards made of AISI 304 stainless steel with tempered glass.
- Automatic washdown system for broken bottles.
- Height adjustment system in all rinsing, filling and capping sections.
- Various capping systems can be installed on the machine table to apply plastic screw, pressure and Twist-off caps.
- Ability to install AISI 304 stainless steel roof and Hepa filter on top of the machines.
- Ability of cold and hot filling of non-carbonated products.
- Ability to manufacture machines with fruit pulp filling system.

Rinsing , filling and capping machines for bottling glass bottles

Model	Product type	Rinsing nozzles	Filling nozzles	Capping heads	Speed (bph)
630 M	Non-carbonated	30	30	10	5000 up to 10000
630 K	Carbonated	30	30	10	5000 up to 10000

Rinsing , filling and capping machines for bottling glass bottles

Rinsing , filling and capping machines for bottling glass bottles



Rinsing , filling and capping machines for bottling glass bottles

<p>Bottle infeed system</p>	<p>Empty bottles are transferred through the belt conveyor into the rotary rinsing section by an infeed worm.</p>	
<p>Rinsing system</p>	<p>Inside of bottles are cleaned by spraying water in a single-phase rinsing process. The rinsing nozzles have "No Bottle – No Spray System".</p>	
<p>Filling system</p>	<p>Isobaric filling technology (Counter Pressure) is used for bottling carbonated products. The filling operation is carried out under CO2 pressure (2-4 degrees celsius). Gravity filling technology is used for bottling non-carbonated products. Fast, simple and reliable mechanical valves, featuring "No Bottle - No Fill System".</p>	
<p>Cap placing system</p>	<p>After filling section , the cap is detached from cap rail by the bottle and is fully placed on the bottle head by using guider.</p>	
<p>Capping system</p>	<p>The machine is equipped with pilfer proof capping heads. In case of any uncapped bottle enters into the capping section, then the capping head operates in such a way that the bottle head is protected against any damages.</p>	
<p>Control system</p>	<p>The machine has PLC control system and color touch screen panel.</p>	



Filling and capping machines

Filling and capping machines

Filling and capping machine , Model 400

This machine is designed to bottle carbonated beverages in glass bottles ranging from 250 cc up to 1000 cc with crown cork caps.

This machine has the following features:

- Fully automatic operation by PLC control.
- Color touch screen panel.
- Error diagnostic system.
- CIP system and dummy bottles.
- Filler tank and all the surfaces in the contact with “product or water” made of AISI 304 stainless steel or AISI 316 stainless steel upon request.
- Equipped with probe sensor to control product level inside the filler tank.
- Polyamide gears to reduce noise and vibration.
- Centralized lubrication panel.
- Chassis and table made of AISI 304 stainless steel.
- Cap feeding and sorting systems.
- Easy change over of spare parts.
- Automatic washdown system for broken bottles.
- Height adjustment system in all filling and capping sections.
- Safety guards made of AISI 304 stainless steel with tempered glass.





Filling and capping machine , Model 400				
Model	Product type	Filling nozzles	Capping heads	Speed (bph)
400	Carbonated	56	14	8000 up to 20000

Filling and capping machine , Model 400

Filling and capping machine , Model 400



Filling and capping machine , Model 400

<p>Filling system</p>	<p>Isobaric filling technology (Counter Pressure) is used for bottling carbonated products. The filling operation is carried out under CO2 pressure (2-4 degrees celsius).</p>	
<p>Crown capping system</p>	<p>The crowner consists of two sections: the crown hopper, which holds and selects the crowns, and the crowning section which crimps the crowns in place on the bottles.</p>	
<p>Motion system</p>	<p>The machine is equipped with helical polyamide gears.</p>	
<p>Change parts</p>	<p>Change parts made of special anti-corrosion polymer.</p>	



Rotary rinsing machines

Rotary rinsing machines

Rotary rinsing machine , Model 148

This machine has 48 rinsing nozzles to wash inside glass bottles ranging from 250 cc up to 1000 cc.

This machine has the following features:

- Fully automatic operation by PLC control.
- Color touch screen panel.
- Error diagnostic system.
- All the surfaces in the contact with “water” made of AISI 304 stainless steel.
- Polyamide gears to reduce noise and vibration.
- Easy change over of spare parts.
- Safety guards made of AISI 304 stainless steel with tempered glass.
- Inside of bottles are cleaned by spraying water in a single-phase rinsing process. Empty bottles are transferred into the rotary rinsing section by an infeed worm. The bottles are hold from their neck and turned upside down by grippers along their axis. After spraying operation, the bottles continue to move upside down for a while to drain the rinsing water out and then turned back to upright position. The rinsing nozzles have “No Bottle – No Spray System”.

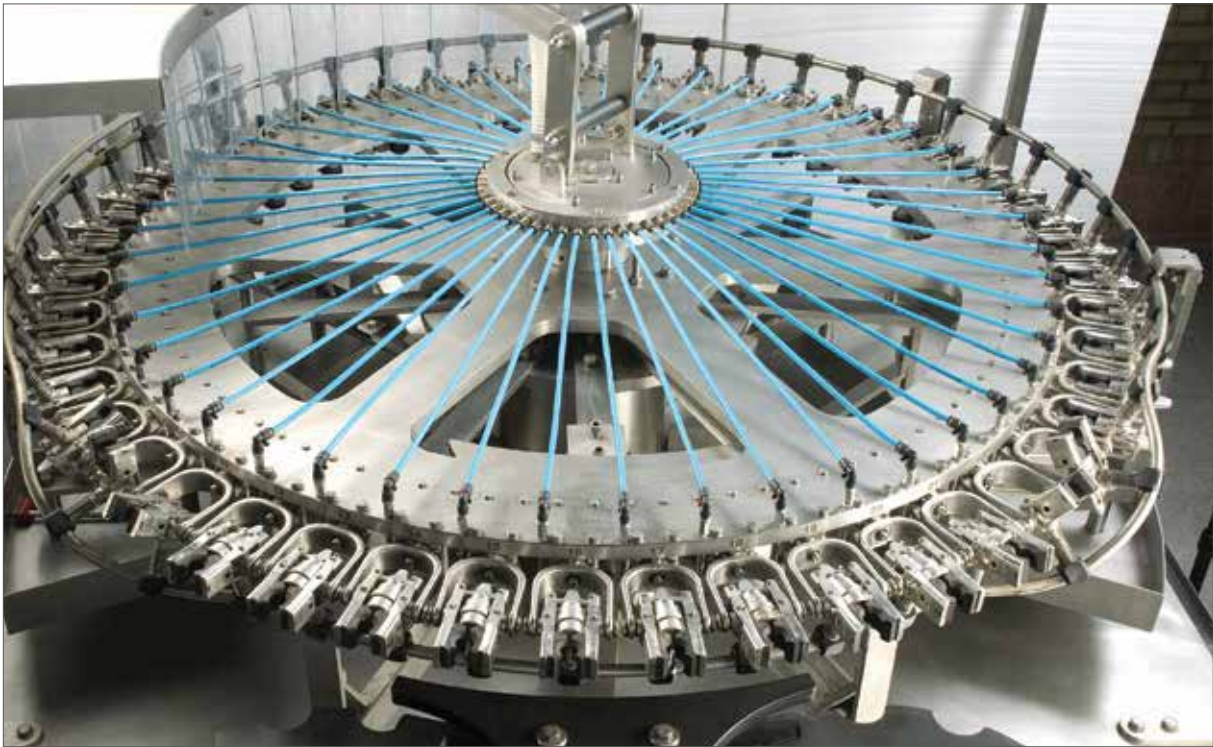
Rotary rinsing machine , Model 148

Model	Rinsing nozzles	Speed (bph)
148	48	8000 up to 20000

Rotary rinsing machine , Model 148



Rotary rinsing machine , Model 148





OPP Roll-fed labelling machines

OPP Roll-fed labelling machines

OPP Roll-fed labelling machine , Model 535

This model is a linear labelling machine with hot melt system for the application of wrap-around roll-fed labels. It is capable of sticking OPP label on glass and PET bottles ranging from 200 cc up to 1500 cc.

This machine has the following features:

- Fully automatic operation by PLC control.
- Color touch screen panel.
- Error diagnostic system.
- Label feeding system driven by servo motor.
- Minimum glue consumption.
- Minimum air consumption.
- Polyamide gears to reduce noise and vibration.
- Easy change over of spare parts.
- Easy access to all parts of the machine.
- Safety guards made of AISI 304 stainless steel with tempered glass.

• **Cutting section:**

By using servo motor, determination of cutting point is possible with accuracy of ± 1 mm in any speed of the machine and for any size of label.

• **Vacuum section:**

By using vacuum system, displacement of label is carried out without grippers and intensity of vacuum can be adjusted.

• **Glue roller section:**

Glue temperature controlled by PLC system, it can make possible to control the temperature within ± 2 c.

OPP Roll-fed labelling machine , Model 535

Model	Speed (bph)
535	5000 up to 10000

OPP Roll-fed labelling machine , Model 535





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OPP Roll-fed labelling machine , Model 535



OPP Roll-fed labelling machines

OPP Roll-fed labelling machine , Model 540

This machine is a linear labelling machine with hot melt system for the application of wrap-around roll-fed labels. It is capable of sticking OPP label on glass and PET bottles ranging from 200 cc up to 1500 cc.

This machine has the following features:

- Fully automatic operation by PLC control.
- Color touch screen panel.
- Error diagnostic system.
- Label feeding system driven by servo motor.
- Equipped with web guiding system.
- Minimum glue consumption.
- Minimum air consumption.
- Polyamide gears to reduce noise and vibration.
- Centralized lubrication panel.
- Easy change over of spare parts.
- Easy access to all parts of the machine.
- Safety guards made of AISI 304 stainless steel with tempered glass.

OPP Roll-fed labelling machine , Model 540

Model	Speed (bph)
540	10000 up to 20000

OPP Roll-fed labelling machine , Model 540



OPP Roll-fed labelling machine , Model 540

Bottle changeover can be accomplished in less than 30 minutes.



The machine is equipped with infeed worm at the inlet and guiding belts at the outlet for stabilizing bottles movement.

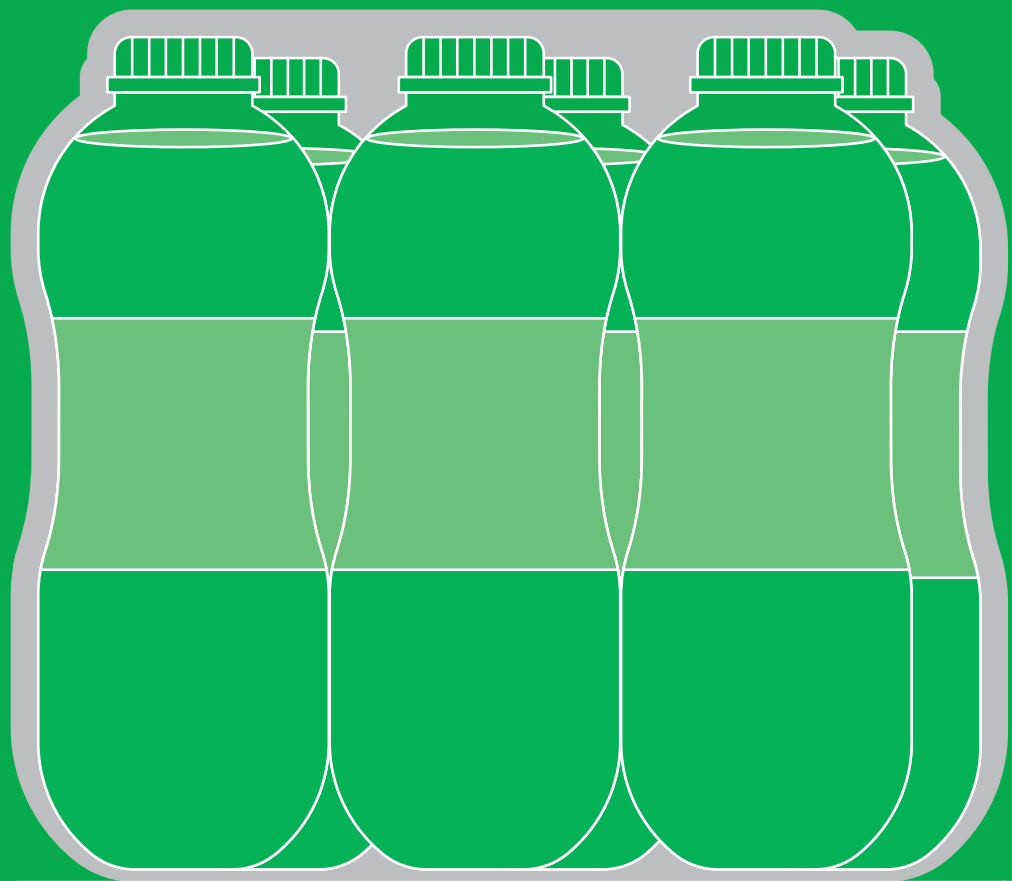


The machine has two label roll bases driven by separate servo motors.



Color touch screen panel gives operators the possibility of managing all machine parameters and keeping all its functions under control.





Overlap Shrink wrapping machines



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Overlap shrink wrapping machines

Overlap shrink wrapping machines Models 830 & 860

These series of machines are designed for film only wrapping with no sealing bar in single lane and double lanes types.

These machines have the following features:

- Fully automatic operation by PLC control.
- Color touch screen panel.
- Error diagnostic system.
- Fallen bottle detector system .
- Feeding and cutting systems controlled by servo motors.
- Equipped with safety clutches.
- Equipped with anti-statics bar system before cutting section.
- Ability to cut and wrapping pre-printed shrink film.
- Heating tunnel temperature is precisely controlled by PLC system.
- Easy access to all parts of the machine.
- Safety guards made of AISI 304 stainless steel with tempered glass.

Overlap shrink wrapping machines , Models 830 & 860

Model	Speed (packs/min)
830	Up to 30
860	Up to 60

Overlap shrink wrapping machine , Model 830



Overlap shrink wrapping machines Models 830 & 860

The overlap shrink machine is equipped with sorting system at the beginning.



The separation system is composed of a metal mesh conveyor or plastic chain and an upper pneumatic press that stabilizes the product in the post-separation stage.



Color touch screen panel gives operators the possibility of managing all machine parameters and keeping all its functions under control.



Film transport crossbar system is equipped with easy settings to wrap a wide range of packs without having to replace parts but through simple manual adjustments.



The machine is equipped with double film roll bases and manual thermal sewing bar system.



Heating tunnel is equipped with electrical elements and high insulation guarantees the maximum performance and minimizes energy losses. The stainless steel mesh conveyor guarantees the perfect sealing in the overlapped film area.



The cooling system at the tunnel outfeed is made up of a fan installed in the upper part to stabilize the temperature of the pack avoiding any distortion.





Handle applicator machines

Handle applicator machines

Handle applicator machines Models 930 & 960

Handle applicator machines apply adhesive carry handles on shrink film packs.

These machines have the following features:

- Fully automatic operation by PLC control.
- Color touch screen panel.
- Error diagnostic system.
- Crossbar driven by servo motor.
- Easy access to all parts of the machine.
- Safety guards made of AISI 304 stainless steel with tempered glass.

Handle applicator machines , Models 930 & 960

Model	Speed (packs/min)
930	Up to 30
960	Up to 60

Handle applicator machine , Model 930

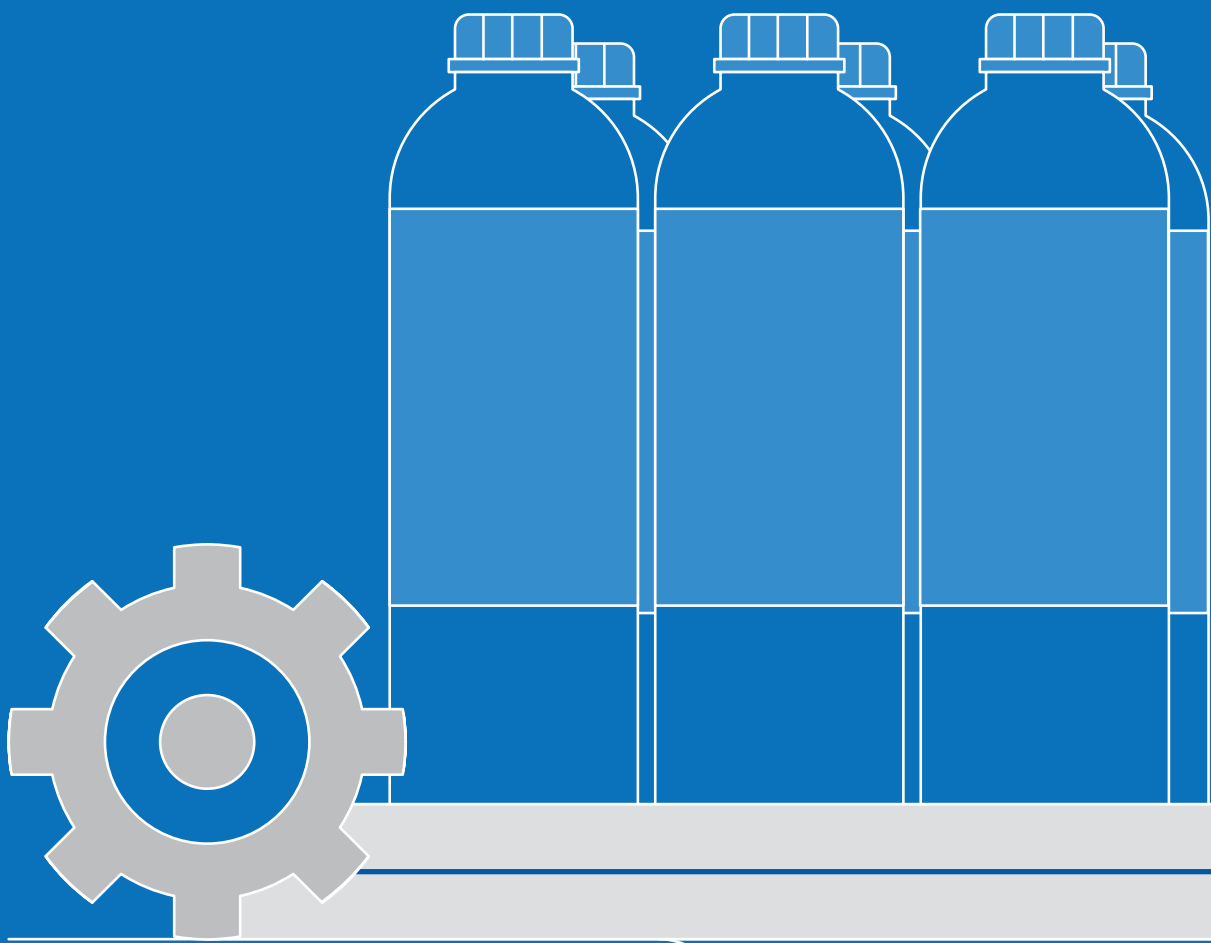




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Handle applicator machines Models 930 & 960





Belt and air conveyors

Belt and air conveyors

Belt conveyor system

The belt conveyor systems are specially designed for conveying plastic, glass bottles and shrunk packs, by taking to account the layout plan, the total line capacity and the individual speed rates of the machines, in order to minimize the loss in production caused by the stops and starts.

It has the following features:

- Whole structure and cable tray made of AISI 304 stainless steel.
- Ability to Install water drain tray.
- Ability to install plastic or stainless steel chains.
- Ability to design and manufacturing in single and traffic lines.
- Ability to work with wet and dry lubricating systems.



Belt and air conveyors

Air conveyor system

Air conveyor is used for interconnection of blow moulding machine or unscrambler machine into the beginning of the bottling line (Filler). Air conveyor is the most efficient method to transport empty plastic bottles (PET & HDPE) without trouble due to light weight of plastic bottles.

• **It has the following features:**

- Whole structure and cable tray made of AISI 304 stainless steel.
- Equipped with neck guiding system.
- Equipped with bottle side guiding system.
- Blowing fans made of AISI 304 stainless steel with standard anti-dust filters and AC electrical motor. Ability to install pneumatically controlled discharge gate at blow moulding outlet or filler inlet for
- removing bottles from the air conveyor line in case of necessity.
- Ability to install manual feeding gate.
- Ability to control speed and force of blowing fans by electronic inverter.
- Ability to install automated line control system via sensors and PLC.
- Ability to install pneumatic jacks to change the size of bottle side guides.
- Ability to install dry lubricating system.



FILLING & PACKAGING TECHNOLOGY

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