



DHARA ENGINEERS

MANUFACTURER & EXPORTER OF PHARMACEUTICAL MACHINERY & SPARES

Move with the Leader

About Company

Dhara Engineers is an ISO 9001:2008 Certified professionally managed Company focused on Manufacturing and Supplier with World renowned Quality companies since 1996.

Dhara Engineers has been a pioneer Manufacturer, Exporter & Supplier of Pharmaceuticals, Food & Beverages, Cosmetics, Packaging, Liquor, & Pesticides Industries and exceptional customer Service to our Customers enabling us to create a large portfolio of dedicated and loyal customers.

We have used this insight to continuously improve and upgrade our organization to serve our customers better. Beginning 2012, we have spread our wings to the all over World to serve the Customers in that country.

Today Dhara Engineers is the member of IPMMA, ISO Certified 9001:2001 Company, and a part of the Dun& Bradstreet. We are in the process of expanding our product portfolio and geographic coverage to serve our customer better and quicker.

RELIABLE AUTHENTIC

DECENT HARDCORE
ASPHERIC



Mission

To Provide Best Quality of Pharma Machinery & Spares, Food & Beverages Machinery, Packaging Machinery, Licker Machinery, Pesticides Machinery to enable Conscious & Progressive Companies to achieve their Mission.

Our Vision

Our vision is to extend our quality based pharmaceutical machine to worldwide and giving full satisfaction to our important clients, it is also our plan that to make our products better and with top class services.

Semi Automatic PLC Operated Multijet Ampoule/Vial Washing Machine



Operation :

The dump loading procedure may be used, if the Ampoules/Vials are ready to dump Boxes, which will have exactly into the same number of Ampoules/Vials and the pitch, as the loading tray. Alternatively, each Ampoules/Vials have to be arranged into the tray. The loading trays are placed directly into the Machine and the Handle bar into the lowered for Automatic centering of Washing needles into the Ampoules/Vials mouth. The Top cover is also lower and switch is operated Automatic Sequential washing both from inside & outside of each individual Ampoule/Vial. The machine will automatically stopped after one complete cycle & for removal of tray, reverse procedure is to be observed.

Technical Specification :

Model	DAVW – 240
Output	30 to 40 Cycles/Hour (Each cycle's time will be of 58 seconds)
Ampoule Dia	10mm to 21.5mm
Ampoule Height	60mm to 140mm
Vial Dia	15mm to 56mm
Vial Height	56mm to 110mm
Overall Dimension	1100 mm L X 1050 mm W X 1200 mm H
Power Specification	1.0 HP, 3 PHASE, 440 VOLTS, 50 Hz, 4 Wire System
Change Part	- Multi-Jet Needles Plate - Comby Trays
Utility	DM Water : 8 Liter/cycle WFI Water : 8 Liter/cycle (Depend Up-On Cycle Time) Air : 20 CFM @ 5 Bar

Salient Features:

- Very Simple & Robust Construction for a long life and continuous service.
- Automatic Washing Cycle Operation by Programmable PLC with HMI.
- Each Cycle Time can be Adjustable.
- Sound design concept of Pump and Solenoid Valves for reserves & continuous supply of washes Media.
- Both internal & external washing ensuring absolutely clean ampoules/vials after Sequential Washing.
- Acrylic top cover for clear view of washing events taking place in the machine.
- All contact parts of washing media & compressed air are of SS 304 or HDPE or Polycarbonate or PP.
- In the event of acrylic cover lifted during cycle operation, the machine will Automatically Stop and Restart from the 1St Cycle, when cover is pushed down.

Washing Cycles :

Multi-Jet Needles	Maximum Vial Size (ml) Up to	Maximum Ampoule Size (ml) Up to	Internal/External Washing	
			Washing	Wash
56 Needles	100	Any Size	1 st wash	DM water
99 Needles	030	Any Size	2 nd wash	Air
189 Needles	010	Any Size	3 rd wash	DM water
240 Needles	003	10	4 th wash	Air
340 Needles	002	05	5 th wash	WFI water
432 Needles	-	03	6 th wash	Air

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Automatic Rotary Ampoule Washing Machine



Operation :

Ampoules feed from the Infeed tray are received on an Infeed Feed worm then moves on Infeed Star Wheel. The Grippers picks up the Ampoules from Infeed Star Wheel and invert it in neck down position over washing needles and move along with the needle bar for Washing. On completion of a cycle, washed ampoules are again inverted to neck upward position and feed to output star wheel. Washed ampoules received from output star wheel can be collected on Output Tray or can be pushed to tunnel.

Technical Specification :

Model	DRAW – 120	DRAW – 240
Output	60 to 120 Ampoules/Minute	120 to 240 Ampoules/Minute
Ampoule Diameter	9mm to 21.5mm	9mm to 21.5mm
Ampoule Height	60mm to 140mm	60mm to 140mm
Power Specification	4 HP, 3 Phase 50 Hz, 4 wire system	4 HP, 3 Phase 50 Hz, 4 wire system
Optional Accessories	PLC with HMI Aluminum Profile Cabinet covering full machine	PLC with HMI Aluminum Profile Cabinet covering full machine
Utility	Air – 20 CFM Water – 200 to 500 Liter/Hour depend upon Ampoule size	Air – 20 CFM Water – 200 to 500 Liter/Hour depend upon Ampoule size
Water Tank & Pump	3 Nos. each with 25 Liters Capacity & Centrifugal Pump	3 Nos. each with 25 Liters Capacity & Centrifugal Pump
Overall Dimension	2050mm L x 2000mm W x 1210mm H	2450mm L x 2000mm W x 1300mm H

Washing Cycles :

Internal/External

Washing	Wash
1 st wash	Recycled Water(WFI)
2 nd wash	Compressed Air
3 rd wash	DM water
4 th wash	Compressed Air
5 th wash	Water for Injection(WFI)
6 th wash	Compressed Air

Salient Features:

- All Contact parts made out from SS 316
- Entire frame covers & non Contact parts made out from SS 304.
- All finishes, welding joints are processed, treated & equipment selected in accordance with cGMP standards.
- Suitable for 1ml to 25ml ampoule.
- Low Water Consumption.
- Quick Change over of parts for other size of Ampoule.
- 3 Pumps and 3 Tanks of 25 liters Each
- Washing sequence can be made as per customer's requirements.

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Automatic Ampoule Filling & Sealing Machine



Operation :

Empty washed or sterilized ampoules fed into Hopper from the left hand side of the machine. Ampoules fed through feeding cassette to receiving rack. The moving rack which moves horizontally collect Next ampoules from the receiving rack and transfer the Ampoule to the machine in left to right in an inclined position through pre-gassing. Pre-gassing, Filling, Post Gassing, Pre-heating & sealing stations completes filling & sealing operations. Filled & sealed ampoules are collected automatically in SS tray in upright position without hand touch.

Technical Specification :

Model	DAFS-35	DAFS-55	DAFS-100
No. of Filling Head	Single	Two	Four
Output	10 to 30 Amp./Min	25 to 50 Amp./Min	50 to 100 Amp./Min
Ampoule Size	1ml to 10ml Amp.	1ml to 10ml Amp.	1ml to 5ml Amp.
Overall Dimension (L x W x H)	750mm X 500mm X 1000mm	900mm X 750mm X 1000mm	1050mm X 800mm X 1000mm
Power Specification	0.5 HP, 3 Phase, 440 Volts, 50 Hz, 4 Wires System	0.5 HP, 3 Phase, 440 Volts, 50 Hz, 4 Wires System	1 HP, 3 Phase, 440 Volts, 50 Hz, 4 Wires System
Change Parts	Star Wheel Needle Set Syringes	Star Wheel Needle Set Syringes	Star Wheel Needle Set Syringes

Salient Features:

- The eccentric rack system is solid & rugged with precise grooves to ensure perfect positioning of ampoule at all operational points.
- All cams inside machine are steel cast to achieve better hardness and long trouble free life. Further, special jigs and fixers are created to ensure repetitive accuracy of each part.
- All internal cams are finally set & fixed with taper set pins to ensure that no setting required, even after a long time of usages. Further, the set pins ensure perfect positioning, while refitting.
- All internal plates are of MS duly safe & painted before SS cladding from outside; impart perfect fixing & total alignments.
- The filling Head sliding bracket, the heart of the machine is perfectly shaped & lapped to achieve play less performance.
- SS 316 perfectly ground syringes for accurate filling.
- Specially designed needles with spring loaded valves to ensure drip proof performance and easy of cleaning and mandatory sterilizations.
- Absolute, positive mechanical ' No Ampoule, No Filling' device.

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Automatic Linear Tunnel type Bottle Washing Machine



Operation :

Bottles pushed from Infeed tray and then move on Wiremesh conveyor Belt, which align the Bottle in correct position, to enter into the carrier pocket with help of oscillating guide rails. Oscillating arm deliver the Bottle inside pocket in mouth down position over spraying nozzles. Multijet sprayers fixed at the top cause the total External and Internal surface to be Washed. To avoid any possible cross contamination between two different waters. Each washing station is provided with an independent Circuit. Carrier pocket is moving with indexing motion. When the baskets have completed their motion the needles are lifted. They penetrate the Bottles, Spraying Jets of water or compressed air then Return Down. The baskets movement then advances by one Station. Each station of Bottles passes through the washing cycles selected. The duly washed Bottles then delivered to the Out feed tray with neck opening upward and then automatically re ordered to a next Operation.

Technical Specification :

Model	DBWT-100	DBWT-150	DBWT-200	DBWT-250
Output	50 to 100 Bottles/Min	100 to 150 Bottles/Min	100 to 200 Bottles/Min	200 to 250 Bottles/Min
No. of Pockets	10	12	16	20
Electrical Characteristics	3.5 HP, 415 Volts, 50 Hz, 3 Kw, 4 Wire System			
Tank Capacity	80 Liter			
Wash Cycle	3 Inner + 1 Outer + 1 Air			
Water / Air Consumption	400 Liter/Hr/ Cycle/Pressure 2.5 Kg @ 20 CFM			
Overall Dimensions (L x W x H)	1150 X 2500 X 1550	1450 X 2500 X 1550	1450 X 2500 X 1550	2900 X 2500 X 1130
Change Parts	A) Neck Dia. Bottle Holding Pocket B) Flat Container Size: Delivery Chute			

Salient Features:

- Machine structure made by SS 304 with argon welded.
- SS filter housing & Nozzles made from SS 316.
- Imported Gear Box, Main Drive and Conveyor.
- Infeed Conveyor Belt system.
- AC Variable Drives for Main drive and conveyor.
- Pumps with tank (80 Liter Each) 2 Nos.
- Special Pocket system ensures easy and trouble free washing of Bottles for outer & inner side.
- Water recycling arrangement is possible as per client's requirement.
- A special clutch device is available for stoppage of the machine in the event, Bottles is over turned or over diameter.
- Machine also equipped with external washing of Bottles.
- Machine provided with PLC (OPTIONAL) as per customer requirement.

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Semi Automatic Rotary Bottle Washing Machine



Operation :

The bottles are loaded on rotating platform where bottles are getting cleaned in a series of operations. The bottle holder i.e. nylon cups are specially designed to accommodate bottles with varying neck diameter and bottle diameter. The bottles are placed in an inverted position in cups. The external cleaning of the bottles is done by spraying showers. Solenoid valves are provided to enable the regulation of timings and sequence of various washing media to suit specific requirement.

Technical Specification :

Model	DRBW-60	DRBW-100
Output	40 to 60 Bottles/Minute	60 to 100 Bottles/Minute
Direction of movement	Clockwise	Clockwise
Diameter	30mm to 100mm	30mm to 80mm
Electrical Characteristics	1.5 HP, 440 Volts, 3 Kw, 3 Phase, 50 Hz, 4 Wire System	1.5 HP, 440 Volts, 3 Kw, 3 Phase, 50 Hz, 4 Wire System
Pressure Required	6 bar@5 CFM	6 bar@5 CFM
Tank Capacity	75 Liters, SS 304 (2 Nos.)	75 Liters, SS 304 (2 Nos.)
Water Cycle	4 Inner + 1 Outer	4Inner + 1 Outer
Working Height	850mm to 900mm	850mm to 900mm
Change Parts	(A) Neck Diameter: Bottle holding pocket. (B) Flat Container: Special type of cup.	(A) Neck Diameter: Bottle holding pocket. (B) Flat Container: Special type of cup.

Salient Features:

- The specially designed cups are provided on the platform to accommodate any size of Bottle from 100 to 1000 ml.
- Easy loading and unloading with two rows.
- Individual solenoid valve for each washing sequence.
- Pumps and tanks are mounted on parable stand for easy maintenance.
- Compact GMP model.
- Geneva mechanism.
- Four internal, one external and one air wash
- Washing Sequences and positioning of washing stations can be interchanged as required for liquid oral & injectable.
- Stationary nozzles eliminate contamination of water cycles.

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Automatic Electronic Liquid Bottle Filling Machine



Operation :

Containers moving on SS Slat conveyor, feed below the filling nozzles through a settable twin pneumatically operated stopper system. The twin pneumatically operated stopper system and reciprocating nozzles can precisely match for centering of container below nozzles, to avoid spillage of liquid on container. To minimize foaming adjustable nozzle will reciprocate according to filling dose, nozzle will go upwards from bottom level of bottle towards neck during filling. The Digital filling system arrangement is standard features of the machine. The motor for filling is servo drive and conveyor drive is AC Motor with synchronized variable AC Frequency Drive. PLC Controller provided to set fill volume, speed of conveyor and set fill timing this means fill size can be easily set.

Technical Specification :

Model	DLF-50-2H	DLF-100-4H
Output	20-40 Bottles/Min (Depend on Fill Volume)	40-60 Bottles/Min (Depend on Fill Volume)
Electrical Characteristics	3.5 HP, 440 Volts, 3 Phase, 50 Hz, 4 Wire System	5.5 HP, 440 Volts, 3 Phase, 50 Hz, 4 Wire System
Direction of Movement	Left to Right	Left to Right
Number of Head/Nozzles	2 Head	4 Head
Fill Size	10ml to 1000ml	10ml to 1000ml
Height of Conveyor	860mm to 910mm Adjustable	
Overall Dimension	1600mm L X 1110mm W X 1830mm H	
Air Pressure	6 Bar Pressure @ 0.5 CFM	

Salient Features:

- Accuracy $\pm 0.8\%$ or 0.5Gram in single doze (Whichever is higher).
- No change parts require.
- Different speeds can be set, depending on fill volume and foaming nature of material.
- Body covered with SS sheet.
- A unit to fill variety of liquid and can be used for various type of containers.
- No dropping or last drop problem.
- 25 Liter Holding Tank fitted with Machine.
- Inbuilt protection against over current, voltage fluctuation, short circuit in AC frequency Drive.
- Ideal for aseptic, sheer sensitive, viscous, and corrosive liquids also.
- Individual volume control for all syringes.
- All contact parts silicon tubing and S.S.316.
- No bottle no filling system.
- Facility provided for the fine tuning of the volume

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Automatic Volumetric Liquid Bottle Filling Machine



Operation :

Bottles are feed on to in-built Infeed Turn Table, from where it delivered to SS conveyor belt. Conveyor belt transport Bottles to Filling Station. Filling station has Pneumatic bottle stopper for exact bottle neck centering of bottles during filling Operation. Nozzle goes upwards slowly from the bottom level of bottle towards neck during filling to minimize forming adjustable nozzle is reciprocating according to filling dose. The dosing block with a hexagonal bolt, this means different fill size can be set easily within minimum use of time. After liquid filling bottles are delivered to capping/labeling machine conveyor for further operations.

Technical Specification :

Model	DLF-50	DLF-100	DLF-150
No. of Heads	Two Heads	Four Heads	Six Heads
Output	20-40 Bottles/Min	40-80 Bottles/Min	60-120 Bottles/Min
Input Specifications	Dia.: 30mm to 100mm Height: 210mm Maximum Customized bottle height can be accommodated		
Fill Range	10 ml to 500 ml - in Single Dose with the help of change parts		
Electrical	1.5 HP, 440 Volt,	1.5 HP, 440 Volt,	2.0 HP, 440 Volt,
Characteristics	3 Phase, 4 Wire System	3 Phase, 4 Wire System	3 Phase, 4 Wire System
Overall Dimensions (L x W x H)	1500 X 800 X 1500	1500 X 800 X 1500	1800 X 900 X 1500
Conveyor Height	800 mm \pm 50 mm		

Salient Features:

- cGMP Model
- Rigid vibration free construction for trouble free performance.
- SS Elegantly matt-finished body.
- Elegant and easy control panel for total control on operation.
- Minimum change over time from one size to another container or fill size.
- User friendly Machine.
 - Low maintenance cost.
- All contact parts made of S.S. 316.
 - No Bottle – No Filling System.
- Pneumatic Control Bottle Stopper.
- Filling Accuracy \pm 1 % in single dose (Depends upon fill size & nature of liquids).
- Machine provided with PLC (OPTIONAL) as per customer requirement.

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Automatic Bottle ROPP/Screw Cap Sealing Machine



Operation :

The filled bottles moving on conveyor belt and fed into an in feed star wheel by in-feed worm. While moving in feed star wheel, bottles pick up caps one by one from delivery chute. The descending rotary sealing heads hold bottle's neck with desired pressure. The sealing is done in a programmed roll-on manner, accurate positioned of the caps is done mechanically by means of a rotating unscramble, to direct the caps correctly into the chute, when the chute is filled up the rotating unscramble drive is disengaged, hence, there is no chance to damage of caps. The sealing roller takes place due to rotating sealing head and transfer movement of sealing & threading rollers due to sealing cam. The sealed bottles are discharged by exist star wheel on conveyors.

Technical Specification :

Model	DRCS-60	DRCS-120
No. of Capping Heads	Single	Four
Production Rate	30 to 60 Containers/Minute	60 to 120 Containers/Minute
Container Diameter	24mm to 90mm	24mm to 90mm
Container Height	50mm to 250mm	50mm to 250mm
Cap Diameter	20mm, 25mm & 28mm with the help of change parts	20mm, 25mm & 28mm with the help of change parts
Electrical characteristics	1 HP, 440 Volts, 3 Phase, 50 Hertz, 4 Wire System	1 HP, 440 Volts, 3 Phase, 50 Hertz, 4 Wire System
Conveyor Height	800mm to 900mm adjust.	800mm to 900mm adjust.
Optional Accessories	Aluminum profile cabinet covering full machine	Aluminum profile cabinet covering full machine
-	PLC with HMI	PLC with HMI
Overall Dimension	1500mm L X 850mm W X 1800mm H	1675 L x 1000mm W x 1800mm H

Salient Features:

- Compact GMP model.
- "Container Overturn - Machine Stop" mechanism.
- Quick and very easy change over and setting from one size of Container to another by a Single Ratchet.
- Parts coming in contact with the Container or the Aluminum cap or exposed to atmosphere are made out of stainless steel for long life.
- Single motor synchronizes Conveyor, star wheel and Platform Turret and speed can be varied by VFD.
- Star Wheel is equipped with safety clutch for automatic stoppage of machine in case of jamming or overloading.
- Digital counter for counting production output.
- "No Bottle - No Cap" system.
- Inbuilt pulse counter.

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Automatic Measuring Cup Placement / Cap Pressing Machine



Operation :

The Caped bottles moving on conveyor belt and fed into an in feed star wheel by in-feed worm. While moving in feed star wheel, bottles pick up Cup one by one from delivery chute. The sealing is done in a programmed roll-on manner, accurate positioned of the caps is done mechanically by means of a rotating unscramble, to direct the caps correctly into the chute, when the chute is filled up the rotating unscramble drive is disengaged, hence, there is no chance to damage of caps. The Pressing Head takes place due to Pressing head and transfer movement of sealing & threading rollers due to Pressing cam. The sealed bottles are discharged by exist star wheel on conveyors.

Technical Specification :

Model	DCP-60
Output	60-80 Bottles/Min
No of Head	Single
Electrical	2.0 HP, 415 Volt, 3 Phase and 220 V Single Phase Power Supply (50 Hz) with A.C. Drive
Conveyor Height	800 to 900mm Adjustable
Overall Dimensions	1700mm L X 750mm W X 1900mm H

Salient Features:

- No Bottle - No Cup / Cap System
- No Measuring Cup / Cap - Machine Stop System
- Machine construction in Stainless Steel Finish
- Linear Bottle Movement with No Change Parts System for change in Bottle Size
- Single Drive Synchronizing Total Operation of Bottle Feeding, Bottle Holding Belt and Top Holding / Pressing Belt System
- Measuring Cup / Cap Feeder with Variable Speed System for feeding control of caps.
- Minimum Change Over and Setting time
- Hopper can be completely dismantle for easy cleaning
- Minimum Change over time

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Online Visual Bottle Inspection Conveyor Belt



Operation :

The central conveyor belt brings the bottle from the capping machine conveyor. These bottles are automatically bifurcated on the two adjoining conveyor belts & further on the side tables for operators sitting on either side of the table. The operators in turn pick up the bottles & visually inspect the bottles in the alternate white & black background to check for any particles in the liquid filled, sealed & breakage of bottle. After inspection the bottles are placed in the central track, which is transfer for labeling.

Technical Specification :

Conveyor Length	Three Feet Length	Six Feet Length	Eight Feet Length
Output	30 to 60 Bott./Min	60 to 120 Bott./Min	100 to 200 Bott./Min
No. of Operator	Two (1 X 1, Two Side Seated)	Four (2 X 2, Two Side Seated)	Six (3 X 3, Two Side Seated)
Power Supply	440 Volts, 3 Phase, 50 Hz		
Overall Dimension	1000mm L x 760mm W x 1325mm H	1800mm L x 760mm W x 1325mm H	2440mm L x 760mm W x 1325mm H

Salient Features:

- SS 304 Tubler Structure.
- PVC Black & White Board as per GMP Norms.
- UHMW self Lubrication Guide Below Chain.
- SS Elegantly Matt Finishing.
- Adjustable Height of Conveyor Belt to Align other machine of the Line.
- Rigid Vibration Free Construction for Trouble free Performance.
- Speed Variable AC Frequency Drive.

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PVC endless Packing Conveyor Belt



Technical Specification :

Conveyor Length	8', 10', 12', 14', 16' Feet Length
Electrical Load	0.25 HP, 3 Phase, 440 Volts, 50 Hz
Height	815 mm with 75 mm Adjustable Height.

Salient Features:

- Available as per Customer Required Speed, Length, Height.
- SS 304 Tubular Structure with matt Finish.
- Imported Gear Box & Motor.
- Rigid Vibration Free Construction for Trouble free Performance.
- Speed Variable AC Frequency Drive.

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Automatic Linear Tunnel type Vial Washing Machine



Operation :

Vials are pushed from Infeed tray and then move on Wiremesh conveyor Belt, which align the Vial in correct position, to enter into the carrier pocket with help of oscillating guide rails. Oscillating arm deliver the vial inside pocket in mouth down position over spraying nozzles. Multijet sprayers Set at the top cause the total External and Internal surface to be Washed. The Sprayers nozzles are movable in fixed Up-Down position as per Customer Requirement. To avoid any possible cross contamination between two different waters. Each washing station is provided with an independent Circuit. Carrier pocket is moving with indexing motion. When the baskets have completed their motion the needles are lifted. They penetrate the Bottles, Spraying Jets of water or compressed air then Return Down. The baskets movement then advances by one Station. Each station of Vials passes through the washing cycles selected.

The duly washed Vials then delivered to the Out feed tray with neck opening upward and then automatically re ordered to a next Operation.

Technical Specification :

Model	DVWT - 80	DVWT-100	DVWT-120	DVWT-200
Output	80 Vials/Min	100 Vials/Min	120 Vials/Min	200 Vials/Min
No. of Pockets	8	10	12	20
Electrical	3.5 HP, 415 Volts, 50 Hz, 3 Kw, 4 Wire System			
Characteristics	80 Liter			
Tank Capacity	3 Inner+1 Outer+1 Air			
Wash Cycle	3.5 Second for each wash + 1.5 second for traveling.			
Cycle Timing	Water / Air			
Water / Air	Consumptions 400 Liter/Hr/Cycle/ Pressure 2.5 Kg @ 20 CFM			
Consumptions	1150x2500	1450x2500	1450x2500	900x2500
Overall Dimension (in mm)(L x W x H)	x1550	x1550	x1550	x1130
Change Parts	A) Neck Dia. Vial Holding Pocket			

Salient Features:

- High-pressure spray nozzles ensure perfect wash of Vials.
- Interchangeable wash sequences.
- Totally fabricated from SS Materials, including the basic frame.
- No change parts required for washing of Vial saving time of change over.
- All parts coming in contact with washing zones / jet are made from SS 316 materials.
- The machine suitable for handling washes of round glass Vial.
- Water re-cycling arrangement is possible as per customer's need.
- Machine is totally rigid and with stands continuous operation for long working. Hours without any trouble.
- Higher capacity centrifugal pump to wash bigger container.
- Third Tank & pump can be fitted (optional).

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Automatic Rotary Vial Washing Machine



Salient Features:

- All Contact parts made out from SS 316.
- Entire frame covers & non Contact parts made out from SS 304.
- All finishes, welding joints are processed, treated & equipment selected in accordance with cGMP standards.
- Suitable for 2ml to 100ml vials.
- Low Water Consumption.
- Quick Change over of parts for other size of Vial.
- 3 Pumps and 3 Tanks of 25 liters Each.
- Washing sequence can be made as per customer's requirements.

Operation :

Vials feed from the Infeed Turn Table are received on an Infeed Star Wheel. The Grippers picks up the Vials from Infeed Star Wheel and invert it in neck down position over washing needles and move along with the needle bar for Washing. On completion of a cycle, washed vials are again inverted to neck upward position and feed to output star wheel. Washed Vials received from output star wheel can be collected on Output Tray or can be pushed to tunnel.

Technical Specification :

Model:	DRVW-120	DRVW-240
Output	60 to 120 Vials/Minute	120 to 240 Vials/Minute/Vial
Diameter	14mm to 56mm	14mm to 56mm
Vial Height	32mm to 110mm	32mm to 110mm
Power Specification	4 HP, 3 Phase 50 Hz, 4 wire system	4 HP, 3 Phase 50 Hz, 4 wire system
Optional Accessories	PLC with HMI Aluminum Profile Cabinet covering full machine	PLC with HMI Aluminum Profile Cabinet covering full machine
Utility	Air – 20 CFM Water – 200 to 500 Liter/Hour depend upon Ampoule size	Air – 20 CFM Water – 200 to 500 Liter/Hour depend upon Ampoule size
Water Tank & Pump	3 Nos. each with 25 Liters Capacity & Centrifugal Pump	3 Nos. each with 25 Liters Capacity & Centrifugal Pump
Overall Dimension	2050mm L x 2000mm W x 1210mm H	2450mm L x 2000mm W x 1300mm H

Washing Cycles :

Internal/External

Washing	Wash
1 st wash	Recycled Water(WFI)
2 nd wash	Compressed Air
3 rd wash	DM water
4 th wash	Compressed Air
5 th wash	Water for Injection(WFI)
6 th wash	Compressed Air

Automatic Liquid Vial Filling & Rubber Stoppering Machine



Operation :

The incoming dry Vial (sterilized and siliconised) are fed through the unscrambler and suitably guided on the moving delrin slat conveyor belt at the required speed of the correct placement below filling unit. The filling unit consists of Filling Head, Syringes & Nozzles which are used for liquid filling. The syringes are made of SS 316 construction and both, glass as well as SS syringes can be used. A Star Wheel is provided which holds the vial during filling operation. A sensor is provided. On same station the Filled Vial pick the Rubber Stopper from Vibratory Bowl to the help of Delivery Suite and place the Stopper on Vial using the Roller pressure. The Vial is move for the Next Operation.

Technical Specification :

Model	DLFR-30	DLFR-60
No of Filling Head	Two	Four
Production Rate	15-30 Vials/Minute	30-60 Vials/Minute
Diameter	15mm to 70mm	15mm to 70mm
Vial Height	25mm to 140mm	25mm to 140mm
Rubber Stopper	13mm, 20mm & 28mm with the help of change part	13mm, 20mm & 28mm with the help of change part
Filling Range	2ml to 100ml	2ml to 100ml
Filling Accuracy	±0.5-1%	±0.5-1%
Electrical Characteristics	1 HP, 440 Volts, 3 Phase, 50 Hertz, 4 Wire System	1 HP, 440 Volts, 3 Phase, 50 Hertz, 4 Wire System
Optional Accessories	PLC with HMI Safety Cabinet covering full machine	PLC with HMI Safety Cabinet covering full machine
Overall Dimension	1900mm L x 800mm W x 1680mm H	2000mm L x 850 W x 1680mm H

Salient Features:

- No cross contamination.
- Suitable for the filling Volume of 2ml to 100ml.
- Piston pump/Peristaltic pump aseptic filling (as per Customer Requirement).
- Filling with accuracy of ±0.5-1%.
- Easy to validate filling system for small/large batch production.
- All Contact Parts Made from SS 316L & framework by SS 304.
- Variable A.C. frequency drive for speed adjustment & Digital Vial Counter for counting production output.
- In-feed Turn Table/ Unscrambler for automatic feeding of objects.
- On-line Mechanism.
- "No Vial - No Filling" system.
- "No Vial - Machine Stop" system.
- PLC with HMI. (Optional)

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Automatic Aluminum Vial Cap Sealing Machine



Salient Features:

- Complete cGMP model.
- "No Stopper on Vial Before Sealing & No Seal in Chute - Machine Stop" system.
- Single motor synchronizes conveyor, Star Wheel and platform turret and speed can be varied by the speed pot on operating panel.
- Parts coming in contact with the vial / aluminum cap / exposed to the atmosphere are made out of SS.
- Sealing Pressure can be varied to suit different gauges and sizes of aluminum caps.
- Digital Counter for counting number of sealed vials.
- Photo sensing device stop machine automatically in the event of no aluminum cap in delivery chute.
- A Special clutch device is incorporated on the Infeed worm and Star Wheel system for stoppage of machine in the event, vial is over turned or over diameter.
- Acrylic Cabinet with Aluminum Structure & PLC with HMI for Machine. (Optional)

Operation :

Duly Stoppered vials are continuously fed from the conveyor of filling machine to the flat conveyor belt of sealing machine and move further through infeed worm for correct spacing and transferred to the infeed Star Wheel. Aluminum caps kept in vibratory bowl automatically orient caps in right direction before entering the delivery chute. Vial during its rotation movement with Infeed Star Wheel picks up aluminum seal from the retaining finger of delivery chute and correctly position on the vial before entering sealing turret. Vial now moves on the spring loaded sealing platform, where free spinning sealing rollers moves gradually inside to complete the sealing operation during rotational movement of sealing platform turret. Now sealed vials are transferred to exit Star Wheel pocket and further moves out on to the flat conveyor belt. Duly sealed vials are collected on out-feed collection tray.

Technical Specification :

Model	DCS-60	DCS-120
No. of Head	Single	Four
Production Rate	30 to 60 Vials/Minute	60 to 120 Vials/Minute
Container Diameter	15mm to 80mm	15mm to 80mm
Container Height	20mm to 180mm	20mm to 180mm
Cap Diameter	13mm, 20mm, 28mm, 30mm & 33mm with the help of change parts.	13mm, 20mm, 28mm, 30mm & 33mm with the help of change parts.
Electrical characteristics	0.5 HP, 440 Volts, 3 Phase, 50 Hertz, 4 Wire System	1 HP, 440 Volts, 3 Phase, 50 Hertz, 4 Wire System
Optional Accessories	Aluminum profile cabinet	Aluminum profile cabinet
-	Covering full machine	Covering full machine
-	Chuck for flip-off seal	Chuck for flip-off seal
-	PLC with HMI	PLC with HMI
Overall Dimension	1210mm L x 800mm W x 1800mm H	1370mm L x 850mm W x 1800mm H

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Visual Vial Inspection Conveyor Belt



Operation :

The central conveyor belt brings the Vial from the capping machine conveyor. These Vials are automatically bifurcated on the two adjoining conveyor belts & further on the side tables for operators sitting on either side of the table. The operators in turn pick up the Vials & visually inspect the Vials in the alternate white & black background to check for any particles in the liquid filled, sealed & breakage of Vial. After inspection the Vials are placed in the central track, which is transfer for labeling.

Technical Specification :

Conveyor Length	Three Feet Length	Six Feet Length	Eight Feet Length
Output	30 to 60 Vials/Min	60 to 120 Vials/Min	100 to 200 Vials/Min
No. of Operator	Two (1 X 1, Two Side Seated)	Four (2 X 2, Two Side Seated)	Six (3 X 3, Two Side Seated)
Power Supply	440 Volts, 3 Phase, 50 Hz		
Overall Dimension (L x W x H)	1000mm x 760mm x 1325mm	1800mm x 760mm x 1325mm	2440mm x 760mm x 1325mm

Salient Features:

- SS 304 Tubler Structure.
- PVC Black & White Board as per GMP Norms.
- UHMW self Lubrication Guide Below Chain.
- SS Elegantly Matt Finishing.
- Adjustable Height of Conveyor Belt to Align other machine of the Line.
- Rigid Vibration Free Construction for Trouble free Performance.
- Speed Variable AC Frequency Drive.

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Automatic Self Adhesive Vial/Bottle Sticker Labeling Machine



Operation :

Machine conveyor receives Container from infeed Turn Table, it separated by the feeding roller assembly to maintain the Pre determined space between the Two containers according to the Label Length and Container Diameter. Label is placed on the container immediately when it sensed by the Container sensor, it ensures instant adhesive of label's edge. Then it passes through the pressing unit resulting in precise registration and crease-free application. It can handle container diameter range from 22 mm to 105 mm and label height from 10 mm to 200 mm, change over can be done within few minutes, label height from bottom can be also adjustable for different kind of containers.

Technical Specification :

Model	DVSL-100
Output	50 to 100 Container/Minute
Container Diameter	22mm to 105mm
Container Height	10mm to 160mm
Label Length	12mm to unlimited
Label Roll Diameter	300mm Max.
Power Specification	
Electrical Characteristics	1 HP, 220 Volts, Single Phase, 50 Hz
Optional Accessories	- Inkjet Printer - PLC with HMI - Aluminum profile cabinet covering full machine

Salient Features :

- S.S. 304 Constructions.
- Micro processor Control unit with LCD Display.
- Secondary Pressing unit.
- Stepper Motor with Controller.
- Any kind of printing device can be accommodated with machine.
- Imported Motor & Gear Box for Conveyor and Pressing unit.
- Variable A.C. Frequency Drive for speed adjustment.
- Command in LCD display allow to choose Automatic & Manual operation.
- Accurate label placement.
- Full Pharmaceutical security package system.
- In built Speed Indicator & Counter.
- Imported Sensor for Label & Container.

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Bottle Unscrambler Turn-Table



Technical Specification :

Model	DTT – 24, 30, 36, 42, 48
Suitable for	Vials, Bottles & Round Containers
Plate Size	24" / 30" / 36" / 42" / 48"
Electrical Characteristics	0.5 to 1.5 HP Depend Upon Size, 230 Volt, Single Phase, 50 Hz

Salient Features :

- CGMP Model.
- All exposed parts of SS to avoid rusting.
- Reduction Gear ensures jerk free and noiseless performance and allows absolute cleanliness even inside.
- Imported Motor and Gear Box.
- A.C. Frequency Drive for Speed Control (Optional).
- Available at various sizes depends upon requirement.

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Semi Automatic Pre-fill Syringe Filling Machine



Operation :

Syringes loaded on Stainless Steel Comby Tray. Prefilled syringe tray can be placed on the Comby Tray Stand. The filling syringes move in indexing position to fill the syringes next by next as a settable filling volume using a peristaltic pump. After the desired volume filling, syringe transfer on the stoppering station is done in a well-designed manner.

Technical Specification :

Model	PFS-01
Output	120 Syringes/Min (Depends on Operator's Efficiency)
No. of Syringes	10 Nos
Filling Volume	0.5ml to 5ml
Change Parts	Filling Stand
Electrical Characteristics	230 Volt, Single Phase, 50 Hz.
Overall Dimension	800mm L X 600mm W X 1200mm H

Salient Features :

- Rigid Vibration Free Construction for Trouble Free Performance.
- SS Elegantly Matt Finished Body.
- PLC Operated Elegant and Easy Control Panel for Total Control on Operation.
- Minimum Change over time, from one size to another syringe or fill size.
- The unit is made compact & versatile as per GMP norms.
- All the contact parts made from SS 316 material.

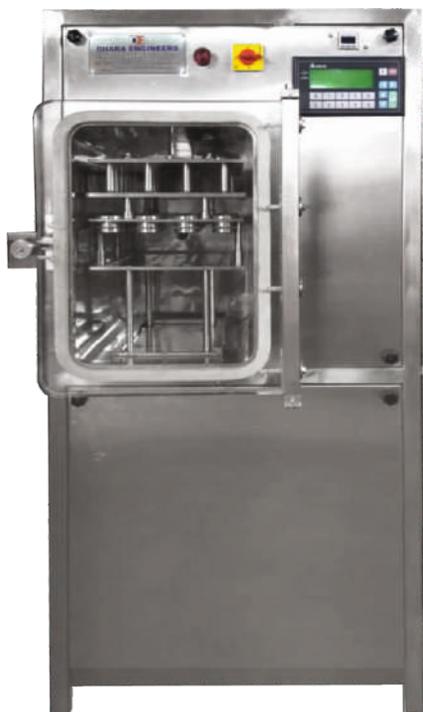
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Semi Automatic Pre-Filled Syringe Stoppering Machine



Operation :

Operator has to keep a tray of 100 Pre-filled syringes over the SS Stand. Then he has to put a stopper tray with suitable stoppers over the SS 316 Stopper Jig. He has to close the evacuation & Stoppering chamber. Now, he can start the machine. Automatic Stoppering cycle start one by one as per the programmed Stoppering cycle mentioned as under. 100 Stoppers are plugged into the Pre-filled syringes precisely after vacuum hold cycle. Now last cycle of nitrogen flushing with vacuum break completes the Stoppering operation.

Technical Specification :

Model	PFSS-01
Output	120 Syringes/Min (Depends on Operator's Efficiency)
Filling Volume	0.5ml to 5ml
Change Parts	Stoppering Pin Head Stoppering Plate
Electrical Characteristics:	230 Volt, Single Phase, 50 Hz.
Vacuum Pump Details:	2 HP, 440 Volt 3 Phase, 50 Hz.
Overall Dimension:	600mm L X 600mm W X 1200mm H

Salient Features :

- Rigid Vibration Free Construction for Trouble Free Performance.
- SS Elegantly Matt Finished Body.
- Elegant and Easy Control Panel for Total Control on Operation.
- Minimum Change overtime, from one size to another syringe or Stopper Size.
- The Unit is Made Compact & Versatile as per GMP Norms.
- Pneumatic Control Stoppering Head.
- SS 316 Vacuum Chamber.
- All the Contact parts made from SS 316 Material.

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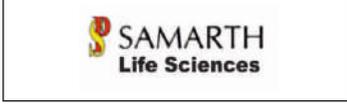
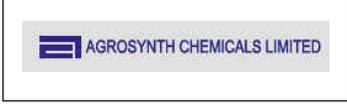
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OUR PRODUCTS

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- Automatic Powder Injectable Vial Filling Line
- Automatic Injectable Ampoule Filling Line
- Automatic Dry Syrup Powder Filling Line
- Automatic Liquid Bottle Filling Line
- Pharmaceutical Machinery Spares
- Customised Machinery

SOME OF OUR VALUABLE CLIENTS



OUR WORLDWIDE NETWORK



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