



HARIKRUSHNA MACHINES PVT. LTD.

WE HAVE BUILT OUR

LEADERSHIP

WITH YOU IN MIND

MANUFACTURER & EXPORTER OF LIQUID PACKAGING MACHINERIES

“For Cosmetics, Dairy, Distilleries, Edible Oil, Food, Juice, Lubricants, Mineral Water, Pesticides, Pharmaceutical And Allied Industries.”

“Useful For Free Flowing Aqueous To Viscous Liquids.”



Packing Conveyor

Measuring Cup Placing Machine

Shrink Sleeve Applicator

Labelling Machine

Visual Inspection Conveyor With Magnifying Glass

Trioblock (Rinsers / Filler / Capper)

Air Conveyor





HARIKRUSHNA
MACHINES PVT. LTD.

OUR MARKET



AUSTRALIA, BANGLADESH, BRAZIL, CHAD, CAMEROON, CANADA, COLOMBIA, CONGO, EGYPT, ETHIOPIA, FIJI, GHANA, INDIA, INDONESIA, IRAN, IRAQ, ISRAEL, JORDAN, LATVIA, KENYA, KUWAIT, MALAYSIA, MEXICO, MONGOLIA, MYANMAR, NEPAL, NIGERIA, PERU, PHILIPPINES, PORTUGAL, QATAR, ROMANIA, RUSSIA, SAUDI ARABIA, SERBIA, SINGAPORE, SOUTH AFRICA, SPAIN, SRI LANKA, SYRIA, TANZANIA, TURKEY, U.A.E., UGANDA, UKRAINE, U.K., U.S.A., UZBEKISTAN, VENEZUELA, VIETNAM ETC.

FOOT PRINTS AT OVER 58 COUNTRIES
worldwide & still counting.....

“Celebrating **11500+** Satisfied Installations Worldwide”



Mr. Maulik Dave
(Chairman & Managing Director)
Cell : +91 98250 49429

“Welcome... to the trusted & most preferred gateway to knowledge engineering based innovative packaging solutions”

HARIKRUSHNA MACHINES PVT. LTD.,

(a flagship venture of **DAVE'S GROUP OF COMPANIES**) one of the most preferred & trusted solution provider for primary packaging requirement. We are engaged in manufacturing & exporting of advanced Liquid processing & packaging machinery for Beverages, Chemicals, Cosmetics, Dairy, Detergents, Distilleries, Edible Oil Fertilizers, Food, Lubricants Oil, Nutraceuticals, Paints, Pesticides, Pharmaceutical, Pigments, Plastic. We also offer special purpose machines & material handling equipments.

HARIKRUSHNA Machines Pvt. Ltd.(HMPL) is headquartered at Ahmedabad India, one of the most preferred business hubs across the globe. We have state of art & advanced manufacturing unit in Ahmedabad.

We are an **ISO 9001-2015 certified organization** & the first organization in India to supply advanced liquid packaging machinery with **CE certification.**

HMPL has proud patronage of around **11500+ installations** across globe, which includes major segments like **Agro-Chemicals & Pesticides, Automobiles, Beverages, Cosmetics, Dairy, Food, FMCG & Pharmaceuticals** to name of few.

At **HMPL**, we always endeavor to keep pace with the ever evolving technologies and ensure to offer highly customized packaging solution to industry leaders across the world.

Warm Regards,

OUR CREDENTIALS



TREND SETTER AWARD



SME EXCELLENCE AWARD



GLOBAL BUSINESS ACHIEVEMENT AWARD



UDYOG RATTAN AWARD

OUR ACCOLADES : YOUR TRUST



CMD, Receiving the prestigious Gujarat Innovation Society "Trend Setter" Award, 2012 for manufacturing practices on 14th April, 2012.



CMD, Receiving the prestigious Gujarat SME Excellence Award, 2012 "Manufacturing Sector" for its manufacturing practices on 17th April, 2012.



CMD Receiving prestigious "UDYOG RATTAN AWARD" by The Governor of Gujarat.

HMPL @ VARIOUS EXHIBITIONS IN INDIA AND GLOBLE



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Food / dairy: Honey Line, Juice Line, Milk Line
Pesticides Packaging Line
Liquor Packaging Line

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R&D / F&D Pre-fill Syringe Filling & Stoppering Machines
Semi Automatic Pre-fill Syringe Filling & Stoppering Machines
Fully Automatic Pre-fill Syringe Filling & Stoppering Machines
Automatic Labeling Machine For Pre-fill Syringes
Cartridge Filling & Closing Line
Fully Automatic Shrink Sleeve Applicators
Trio Block (Rinser Filler & Capper)
Cartoning Machine
Tube Filling & Sealing Machine

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Turn Tables, Roller Conveyors, Packing Conveyors, Bend Conveyors, Slat Conveyors
Inspection Conveyors, Magnifying Glass Conveyors Etc.

REFERRAL CUSTOMERS LIST

“Know us From The People Who Know us”

COSMETICS



PESTICIDES, AGRO & PETRO CHEMICALS



BREWERIES & DISTILLERIES



DAIRY, FOOD & JUICE



SPECIAL PURPOSE MACHINES



REFERRAL CUSTOMERS LIST

"Know us From The People Who Know us"

PHARMACEUTICALS



WASHING SYSTEMS

ROTARY BOTTLE WASHING MACHINE

SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø The structure is made of SS 304.
- Ø Rigid vibration free construction for trouble free performance.
- Ø The contact parts such as washing nozzle, washing pump impeller, tanks, cup/bottle holder plate are made of Stainless Steel 316.
- Ø Easy to clean the base of the machine by removing the top cover.
- Ø The tanks capacity is 75 litres each.
- Ø Specially designed SS304 Impeller based AC motor for pumps.
- Ø Pumps and tanks are mounted on portable stand for easy maintenance and cleaning Purpose.
- Ø Higher capacity of centrifugal pumps to wash bigger bottles (500ml & 1000 ml).
- Ø Stationary nozzles to eliminate contamination of water cycles.
- Ø Four inner wash (Included one air wash, two inner wash with recycled tray) & one outer Wash
- Ø Easy loading/unloading & operation
- Ø Individual solenoid valve use for each wash, which eliminates carbon plate and other accessories.
This is to avoid leakages and minimize the maintenance ratio.
- Ø Individual flow regulating valves to control the flow of water.
- Ø Bottle guide system especially for lightweight bottle.
- Ø Separate panel control to avoid any short circuit due to spraying of water.
- Ø S.S. glycerin fill pressure meter.



REFERRAL TECHNICAL SPECIFICATIONS*

Number of Cup Holder	64 / 96
Bottle size (Ø)	15mm Ø to 70mm Ø Height 50 to 270mm
Neck (Ø)	22 to 25mm
Output speed	2800 to 8000 bottles / hour
Working height	860 to 910mm
Power Consumption	5.0 KW (Main motor-0.5HP, Pump-1HPX2 & Heater 3KW)
Power supply	3Phase / 440V AC/ 50Hz
Air consumption	5 CFM
Air Supply	4 to 6 kg/cm ²
Net Weight	450 kgs
Dimensions	1600mm (L)x 1750mm (W)x 1550mm(H)
Direction	Clockwise
Wash Cycle	4 Inner + 1 outer
Tank Capacity	75 litres (2 nos)

*subject to customization

WASHING SYSTEMS

LINEAR BOTTLE WASHING MACHINE



SALIENT FEATURES:

- Ø High speed tunnel type machine.
- Ø Useful for 10 ml to 200 ml bottles.
- Ø Suitable for glass / pet bottles.
- Ø Output speed of 120 to 250 bottles per minutes.
- Ø Can be equipped with feeding table , Inspection table , exhaust blower and bottle collection system.
- Ø Specially designed nylon bottle holders.
- Ø Consist of “Manual Mode” for checking individual function as well as “Auto Mode” for continuous operation.
- Ø The total washing system is controlled and monitored by PLC.

WASHING SEQUENCE

INTERIOR WASH

W1 W2 W3 W4 W5 W6 W7 W8

AIR L1 AIR L2 L2 AIR L3 AIR

EXTERIOR WASH

E1 E2
AIR L1

OPERATION

The bottles from the in-feed system are inverted via a drum mechanism to pass through eight separate washing stations. The stop and move i.e. Geneva Mechanism hold the bottles on top of each washing station for a predetermined time period. The eight washing stations are independently connected to their respective circuits to eliminate any cross contamination of wash media. The machine speed can be adjusted to suit production speeds. The final washing station can also be adjusted to individual requirements like hot air or steam etc. During the stationery position bottles are externally washed as well. The wash water can be either directly drained out or recycled depending upon the wash sequence preferred.

REFERRAL TECHNICAL SPECIFICATIONS*

No. of Rows	10 / 15 Rows
Speed	120 to 250 BPM
Range of bottles	15 ml to 240 ml
Type of bottles	Round - Glass & Pet
Air wash Pressure	2 kg/cm ²
Washing Fluid	Liquid 1 / 2 / 3
Total Cycle time	27 seconds
Air Pressure	6 kg/cm ²
Air Consumption	225 ACFM
Power Consumption	5 KW
Total washing stations	8
Net Weight	2000 Kgs

*subject to customization

WASHING SYSTEMS

AUTOMATIC AIRJET VACUUM CLEANING MACHINE



SALIENT FEATURES:

- Ø Nozzles for vacuum cleaning with Infeed & outfeed system, inverter and dust collection mechanism.
- Ø Single or two track models are available.
- Ø Useful for any bottle with outside neck diameter of 20 to 45 mm and height of 225 mm.
- Ø Output speed upto 120 bottles per minutes with single and two track mechanism.
- Ø Machine provides 8 air washes.
- Ø All contact parts made out from SS 304.
- Ø Entire frame covers & non contact parts made out from SS 304
- Ø Over load clutch is provided to prevent jamming on machine.
- Ø Quick change over with minimum use of tools.

REFERRAL TECHNICAL SPECIFICATIONS*

Model No	HMPL-AVC 60	HMPL-AVC-120
Output (on Bottle size)	30 to 60 BPM	60 to 120 BPM
Power Supply	1.75 Hp, 440V, 3Ø/50Hz	3.5 Hp, 440 Volt, 3Ø/50 Hz,
Input Specs.	30 to 120ml (25 to 55mm Ø)	30 to 120ml (25 to 55mm Ø)
Utilities	Air 30 CFM @ 5 Bar	Air 30 CFM @ 5 Bar
Net Weight	300 Kgs	550 Kgs
Dimension (LXWXH)	3578 X 1985 X 850 MM	4178 X 2575 X 850 MM

*subject to customization

WASHING SYSTEMS

AUTOMATIC - LINEAR VIAL WASHING MACHINE



Optional Accessories

Internal / External Washes	Washing Media
1 st Wash	Recycled DM + Fresh Water
2 nd Wash	Air
3 rd Wash	DM Water
4 th Wash	DM Water
5 th Wash	Air
6 th Wash	DM Water (WFI)
7 th Wash	Air
8 th Wash	Silicon (optional)

SALIENT FEATURES:

- Ø The unit is made compact and versatile as per GMP norms.
- Ø The structure is made of SS304.
- Ø The contact parts are made of stainless steel 316L.
- Ø Rigid vibration free construction for trouble free performance.
- Ø The washing section is totally covered with acrylic cabinet which is easy to clean.
- Ø Absolutely simple machine to operate.
- Ø All exposed parts are of SS 304 or hard chrome plated or brass for a corrosion free long life.
- Ø The six sets of nozzles enter into the vials mouth during the washing operation ensuring penetration of washing Medias to the core a perfect washing principle.
- Ø Fixed top nozzles each washing station ensures external washing of vials at the same time of internal washing.
- Ø The flow of washing medias stop during the indexing of chain, saving straight 25% on utilities.
- Ø The system of solenoid valves and optional tanks, pumps and filters are engineered for long trouble free life & fool proof operation.

REFERRAL TECHNICAL SPECIFICATIONS*

Vial size	2 to 30ml - (with change parts)
Output Speed	80 to 120 VPM
Working height	860 ± 50mm
Power Consumption	1.5 HP
Power supply	3Phase / 440V AC / 50Hz
Air consumption	5 CFM
Air supply	4 to 6 kg/cm ²
Net weight	600 kgs
Wash cycle	6 wash.

*subject to customization

FILLING SYSTEMS

SEMI AUTOMATIC / PROTOTYPE SYSTEMS

Useful for water based free flow liquid such as Hair Oil, Lubricants, Shampoo, Spirit, Edible Oil, Liquid Soap, Ink etc.

SEMI AUTOMATIC TIMER FILLING MACHINE

SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø The whole structure is made of SS 304 matt finish.
- Ø The contact parts are made of SS 316L such as pump, nozzle etc.
- Ø Rigid vibration free construction for trouble free performance.
- Ø Use of pharma grade / food grade silicon tube for the flow of liquid to facilitate high temperature liquid (up to 80°C)
- Ø Specialized transparent non return valve to avoid dropping.
- Ø Unique bottle & nozzle holding device.
- Ø Unique feature of "PRIME" is useful to remove air which is inside the filling line very quickly to minimize production loss. Also this prime feature is useful to clean filling line before and after process of filling.
- Ø Easy to adjust for different filling volume.
- Ø Machine has electronic components such as AC drive, HMI, PLC and Sensor etc in place of mechanical parts such as piston, syringe, teflon piston rod and pneumatic etc.
- Ø Digitally controlled settings.
- Ø Single phase low voltage requirement.
- Ø All the functions are PLC controlled.
- Ø Very High fill accuracy of $\pm 1\%$
- Ø No change parts required for different filling volumes / bottles.
- Ø Flow of liquid can be controlled by PLC.
- Ø User friendly and high scalability.
- Ø NO BOTTLE NO FILLING.



REFERRAL TECHNICAL SPECIFICATIONS*

Suitable For	50 ml to 5000 ml
Output / minute	10 to 20 bottles (depends on volume & viscosity)
Filling Capacity	50 ml onwards
Power Consumption	0.20 KW
Power Supply	Single Phase / 230V AC / 50Hz
Air Consumption	N.A.
Air Supply	N.A.
Net Weight	20 KGS
Working Height	Table Top

*subject to customization

FILLING SYSTEMS

SEMI AUTOMATIC / PROTOTYPE SYSTEMS

Useful for :

Cosmetic industries- Product container with small mouth like Nail paint, Perfumes etc.

Chemical industries- Solvent based material, Alcohol based material like Phenyl, Wood thinner etc.

Food & Dairy Industries- Butter milk, Fruit Juices etc.

Pharma Industries- Mouth fresheners, Antiseptic liquid etc.

PREMIUM SEMI AUTOMATIC VACUUM FILLING MACHINE



SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø The contact parts are made of SS 316L such as nozzles.
- Ø Rigid vibration free construction for trouble free performance.
- Ø No power supply is required.
- Ø The unit is controlled by compressed air which suits the requirement of flame proof condition.
- Ø High fill accuracy of $\pm 2.0\text{ML}$
- Ø The returned material is re-circulated for filling. No spillage & loss of material.
- Ø No change parts required for different filling volumes / bottles.
- Ø Filling system is useful for high forming & low viscosity material.
- Ø User friendly and high scalability.
- Ø Adjustable platform to meet different height of products

REFERRAL TECHNICAL SPECIFICATIONS*

Bottle Size	15mm Ø to 70mm Ø
Output speed	30 to 40 bpm
Filling Volume	100 ml
Suitable for	Below 200 ml
Filling Head	4 Heads
Bottle neck diameter	6mm ID to 24mm OD
Working Height	750 \pm 50mm
Air Consumption	5 CFM
Air Supply	3 to 4 kg/cm ²
Net Weight	20 kgs

*subject to customization

FILLING SYSTEMS

SEMI AUTOMATIC / PROTOTYPE SYSTEMS

Useful for Chemical / Acidic material(Phenyl, Bleach, Nail remover etc),
Wax based material (Kajal), High temperature product like Balm.

SEMI AUTOMATIC PERISTALTIC FILLING MACHINE

SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø The whole structure is made of SS 304 matt finish.
- Ø The contact parts are made of SS 316L such as nozzles.
- Ø Rigid vibration free construction for trouble free performance.
- Ø Use of pharma grade / food grade silicon tube for the flow of liquid to facilitate high temperature liquid (up to 120°C)
- Ø Unique bottle & nozzle holding device for various height adjustments without any change parts.
- Ø Unique feature of "PRIME" is useful to remove air which is inside the filling line very quickly to minimize the production loss also the prime feature is useful to clean filling line with special application of rotation clock wise and counter clock wise.
- Ø Machine has electronic components such as stepper motor, PLC, feather touch key board and sensor etc, thus avoiding mechanical parts such as piston, syringe, teflon piston rod and pneumatic etc.
- Ø Easy to adjust different filling volume.
- Ø There is no direct contact of liquid material with any mechanical component because the liquid passing through the Pharma grade silicon tubes only.
- Ø Digitally controlled settings.
- Ø Single phase low voltage requirement.
- Ø All the functions are PLC controlled.
- Ø Very High fill Accuracy of $\pm 0.5\%$
- Ø No change parts required for different filling volumes / bottles - except tube dia.
- Ø Flow of liquid can be controlled by PLC.
- Ø User friendly and high scalability.
- Ø NO BOTTLE NO FILLING.



REFERRAL TECHNICAL SPECIFICATIONS*

Suitable For	0.1 ml to 1000 ml (Depend on pump capacity)
Output / Minutes	25 - 30 bpm
Filling Capacity	0.1 ml on wards
Power Consumption	0.20 KW
Power Supply	Single Phase / 230V AC / 50Hz
Working Height	Table Top

*subject to customization

FILLING SYSTEMS

SEMI AUTOMATIC / PROTOTYPE SYSTEMS

Useful for :

- Food & Dairy Industries (Yoghurt, Butter, Honey & Milk, Butter milk, Lassi, Edibale Oil, Ghee, Jam),
- Cosmetic Industries (Shampoo, Bath care, Lotion Etc.)
- Chemical Industries(Lubricants, Ink, Glue)

SEMI AUTOMATIC PISTON FILLING MACHINE

SALIENT FEATURES:



- Ø User friendly and high scalability.
- Ø Easy screw adjustment & easy to clean.
- Ø All pneumatic connections of FESTO make.
- Ø Dual auto & manual mode operation.
- Ø Hopper of 20kg & 50kg can be supplied as an OPTION.
- Ø Transparent acrylic cover for clear visibility & easy maintenance.
- Ø The unit is made compact & versatile as per GMP norms.
- Ø The whole structure is made of SS 304 matt finish.
- Ø The contact parts are made of SS 316L such as nozzles.
- Ø Rigid vibration free construction for trouble free performance.
- Ø The electric supply is not required.
- Ø The unit is controlled by compressed air which suits the requirement of flame proof environments.
- Ø Very high fill accuracy of $\pm 1.5\%$
- Ø No change parts required for different filling volumes / bottles.
- Ø Specially designed pneumatic cylinder operated nozzle with plunger to avoid the dripping.
- Ø The machine can be used for various sizes of bottles.
- Ø Emergency on / off switch to prevent accident.



REFERRAL TECHNICAL SPECIFICATIONS*

Model	FILLING VOLUME ml	SPEED (BPM)	Air Pressure	Air Consumption	Net Weight	Dimension (L X W X H) MM
SPF-3	3 - 30			20 L/Min	9 Kg	920 x 280 x 400
SPF-6	5 - 60			25 L/Min	11 Kg	920 x 280 x 400
SPF-12	10 - 120	0		32 L/Min	22 Kg	920 x 280 x 400
SPF-25	25 - 250	To	5 to 8 kg/cm ²	40 L/Min	25 Kg	1020 x 300 x 400
SPF-50	50 - 500			50 L/Min	28 Kg	1080 x 320 x 410
SPF-100	100 - 1000	30		130 L/Min	36 Kg	1280 x 360 x 410
SPF-250	250 - 2500			300 L/Min	60 Kg	1300 x 600 x 510
SPF-500	500 - 5000			450 L/Min	75 Kg	1300 x 600 x 510

*subject to customization

FILLING SYSTEMS

SALIENT FEATURES:

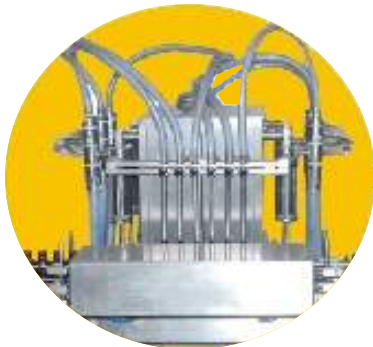
- Ø The unit is made compact & versatile as per GMP norms.
- Ø The structure is made of MS clad with SS 304.
- Ø Rigid vibration free construction for trouble free performance.
- Ø SS elegantly matt finished body.
- Ø Drain tray around the machine platform.
- Ø Drip tray under the conveyor.
- Ø Elegant and easy control panel for total control on operation.
- Ø ± 1 % Filling accuracy on single dose.
- Ø Nitrogen purging arrangement (OPTIONAL).
- Ø No bottle No filling system.
- Ø Diving nozzle device.
- Ø Minimum change overtime, from one size to another bottle or fill size.
- Ø Self-lubricating UHMW-PE guide profile for SS slat chain provides low friction wear surface, smooth and noiseless conveying.
- Ø Pneumatic bottle stopping arrangement.
- Ø Synchronized two nos. AC drives for main motor & conveyor belt.
- Ø SS measurement scale for filling volume adjustment.
- Ø Safety guard for conveyor gearbox, motor and pneumatic cylinders.
- Ø MCB for over load protection, and prevent against short circuit.
- Ø Inbuilt protection against over current, voltage fluctuation, short circuit in AC frequency drive.

AUTOMATIC VOLUMETRIC LIQUID FILLING MACHINE



REFERRAL TECHNICAL SPECIFICATIONS*

HEAD ASSEMBLY



Bottle size (Ø)	15mm Ø to 90mm Ø
Output speed	30 - 150 BPM
Filling Volume	10 ml to 500 ml
Available Filling Heads	2 / 4 / 6 / 8 / 10 / 12
Working height	860 ± 50MM
Power Consumption	2 KVA
Power supply	3 phase+Neutral+Earthing, 440V, 50Hz
Air supply	4 to 6 kg/cm ²
Net weight	200 kgs

*subject to customization

FILLING SYSTEMS

PREMIUM BOTTLE FILLING MACHINE

unique change part free
PLC based filling systems



SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø The structure is made of SS 304.
- Ø Rigid vibration free construction for trouble free performance.
- Ø The contact parts such as filling nozzle, filling pump are made of stainless steel 316.
- Ø The pharma graded silicon tubes are used for the filling purpose.
- Ø Easy to clean the base of the machine.
- Ø The machine is supplied with easy to clean inbuilt storage tank.
- Ø The storage tank is connected with the high capacity of material transfer pump.
- Ø The storage tank is automatically controlled by the mean of float (Level) sensors.
- Ø The process of priming, diving and blocking of the bottles done by pneumatic (air) operated cylinder.
- Ø The air pressure indicator attached with the machine to indicate the fault of low pressure of air supply.
- Ø Easy to operate PLC for any kind of filling volume adjustment.
- Ø Each filling head can be operated & monitored through PLC individually.
- Ø Visible glass NRV is connected in the suction line.
- Ø No change parts required for different size of bottles as well as different filling volume.
- Ø User friendly and very less maintenance required because of less usage of mechanical components.

REFERRAL TECHNICAL SPECIFICATIONS*

Bottle size (Ø)	15mm Ø to 70mm Ø
Output speed	40 to 120 bpm
Filling Volume	10 to 1000 ml
Filling Head	4 - 6 - 8 - 10 Heads
Working Height	860 ± 50mm
Power Consumption	2.5 KVA
Power Supply	3Phase+Neutral+Earthing / 440V AC / 50Hz
Air Supply	4 to 6 kg/cm ²
Net Weight	250 kgs

*subject to customization



FILLING SYSTEMS

PREMIUM VIAL FILLING AND BUNGING MACHINE

SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø The contact parts are made of Stainless Steel 304.
- Ø Rigid vibration free construction for trouble free performance.
- Ø The contact parts such as filling nozzle, bung disc are made of SS316
- Ø The pharma grade silicon tubes are used for filling & CIP/SIP.
- Ø The process of filling is done by specially designed filling pump which can serve the purpose of CIP & SIP.
- Ø No change parts are required for different size of vials as well as different filling volume.
- Ø Easy to operate PLC for any kind of volume adjustment or speed adjustment
- Ø Synchronized motion filler for smooth filling purpose
- Ø Specially designed bung oriental bowl & discharge chute with in-built vibrator. The bung oriental bowl & chute are teflon coated for use of wet bungs.
- Ø For different heights of vials, the whole assembly can be moved upwards & downwards.
- Ø Alarm alerts through PLC for "No vial, Machine stop" & "No vial, No bung".
- Ø Most reliable & proven mechanical components such as FESTO make pneumatics & CE certified electrical/electronics such as bonfigliolie make AC motor, delta make drives, PLC & HMI sensors, MCB's, relay etc.



*Accessories shown may not be the part of the standard equipment

FILLING AREA



BUNGING AREA



REFERRAL TECHNICAL SPECIFICATIONS*

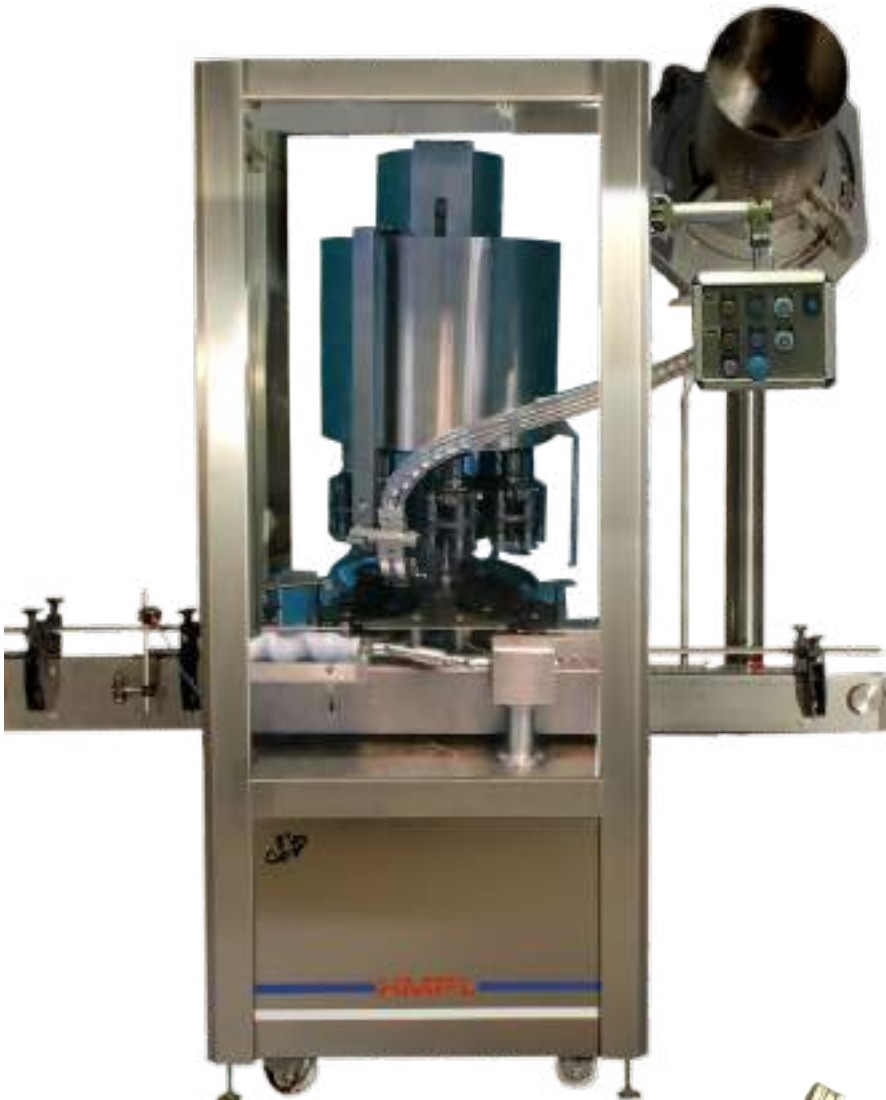
Bottle (vial) range	2 to 30 ml (with the help of change parts)
Output speed	Upto 120 VPM
Filling Volume	2 ml To 30 ml
Filling Head	4 - 6 - 8 - 10 Heads
Working Height	860 ± 50mm
Power Consumption	2.5 KW
Power Supply	3Phase+Neutral+Earthing/440VAC/50Hz
Air Supply	4 to 6 kg/cm ²
Net Weight	250 kgs

*subject to customization

CAPPING SYSTEMS

AUTOMATIC ROTARY R.O.P.P / SCREW CAPPING MACHINE

SALIENT FEATURES:



- Ø The unit is made compact & versatile as per GMP norms.
- Ø The structure is made of MS clad with SS 304.
- Ø Rigid vibration free construction for trouble free performance.
- Ø SS Elegantly matt finished body.
- Ø No bottle no cap arrangement.
- Ø Adjustable height of conveyor belt to align with other machine of the line.
- Ø Sealing pressure can be varied to suit different gauges and size of caps.
- Ø No cap in chute vibrator on & Machine stop.
- Ø No bottles Machine Stop.
- Ø Clutch overload - Machine Stop.
- Ø Low noise level, low power consumptions.
- Ø Chute will have rigid mounting & cap pickup arrangement from SS material.
- Ø Mechanical stopper to stop incoming bottles.
- Ø Self-lubricating UHMW- PE guide profile for low friction wears surface, smooth and noiseless conveying.
- Ø Star wheel & guide MOC: UHMW-White.
- Ø Adjustable bottle height gauge for easy and quick setting.

SCREW CAP



ROPP CAP



*Accessories shown may not be the part of the standard equipment

REFERRAL TECHNICAL SPECIFICATIONS*

Bottle size (Ø)	15mm Ø to 70mmØ
Cap Dia (Ø)	20 to 28mm
Output speed	40 to 150 BPM
Sealing head	1 / 4 / 6 / 8 head
Working height	860 ± 50mm
Power Consumption	2.5 KVA
Power supply	3Phase+Neutral+Earthing/440VAC/50Hz
Air supply	N.A.
Net weight	1800 kgs

*subject to customization

CAPPING SYSTEMS

SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø The body is made of stainless steel 304.
- Ø Rigid vibration free construction for trouble free performance.
- Ø The mechanical driven system of the whole machine is through flange mounted motor and gear box. There is no usage of V belt, pulley. This ensures less breakages and thereby easy maintenance and high trouble free production output.
- Ø Totally synchronized PLC controlled system.
- Ø User friendly to adjust the different speed (bottles / min) with the help of PLC and touch screen HMI.
- Ø No bottles and no caps are detected by the sensors and give the alarm alert and machine stop itself.
- Ø PLC modes are user friendly and can be operated easily.
- Ø Most reliable and proven mechanical components such as festo make pneumatics and CE certified electrical / electronics such as bonfigliolie / crompton make AC motor, delta make drives, PLC & HMI Touch screen, Sensors, MCBs, relay etc.

AUTOMATIC PREMIUM BOTTLE CAPPING MACHINE



REFERRAL TECHNICAL SPECIFICATIONS*

Bottle size (Ø)	15mm Ø to 70mmØ
Cap Dia (Ø)	20 to 28mm
Output speed	40 to 150 BPM
Sealing head	1 / 4 / 6 / 8 head
Working height	860 ± 50mm
Power Consumption	2.5 KVA
Power supply	3 Phase+Netural+Earthing / 440V AC / 50Hz
Air supply	N.A.
Net weight	1800 kgs

*subject to customization

CAPPING SYSTEMS

PREMIUM VIAL CAPPING MACHINE (Aluminum Cap Sealing / Flip off Cap Sealing)



SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø The body is made of stainless steel 304.
- Ø Rigid vibration free construction for trouble free performance.
- Ø The mechanical driven system of the whole machine is through foot mounted motor and gear box.
- Ø Totally synchronized PLC controlled system.
- Ø User friendly to adjust the different speed (vials / min) with the help of PLC and Touch screen HMI.
- Ø Vials without bungs and no caps are detected by the sensors and give the alarm alert and machine stop itself.
- Ø Most reliable and proven mechanical components such as festo make pneumatics and CE certified electrical / electronics such as bonfiglioli / crompton make AC motor, delta make drives, PLC & HMI touch screen, sensors, MCBs, relay etc.

REFERRAL TECHNICAL SPECIFICATIONS*



Vial size	2ml to 30ml (with the help of change part)
Output speed	40 to 150 VPM
Sealing head	2 / 4 / 6 / 8 head
Working height	860 ± 50mm
Power Consumption	2.0 KVA
Power supply	3Phase+Neutral+Earthing / 440V AC / 50Hz
Air supply	N.A.
Net weight	600 kgs

*subject to customization

SEALING SYSTEMS

INDUCTION CAP SEALING MACHINE

SALIENT FEATURES:

- Ø Different version like table top, semi automatic and automatic machines are available.
- Ø Comprises with inbuilt conveyor, wad sealing mechanism, no wad detector mechanism and water cooling mechanism.
- Ø Useful for different sizes of caps from 10 mm diameter onwards.
- Ø Output speed
 - For table top - 5 to 6 seal / minute.
 - For semi automatic - 20 to 30 seal / minute
 - For automatic - 90 to 120 seal / minute



SALIENT FEATURES:

- Ø Specially designed machine to apply cups on the sealed bottles.
- Ø Consist of vibrator assembly and bottle holding mechanism for proper placing of cups.
- Ø Suitable for bottle size of 30 to 80 mm diameter and 35 to 180 mm height.
- Ø Output speed of 40 to 150 cups per minutes.
- Ø Supply 440 V Ac / 50 Hz.



SALIENT FEATURES:

- Ø Machine useful for flow wrapping IV Fluid Bottles.
- Ø Can be operated on any heat sealable flexible laminated material.
- Ø Consist of adjustable conveyor roll fed mechanism and heater assembly.
- Ø Output speed 40 to 150 packs per minutes.
- Ø Can be utilized for online production.

HORIZONTAL FLOW WRAPPING MACHINE



*subject to customization

PREMIUM SEMI LABELING MACHINE - TABLE TOP MODEL

SALIENT FEATURES:



- Ø The unit is made compact & versatile as per GMP norms.
- Ø The whole structure is made of SS304.
- Ø Rigid vibration free construction for trouble free performance.
- Ø Easy to operate by foot mounted switch.
- Ø Can be operated by semi-skilled operator.
- Ø No change parts required for different bottles (Range 15 to 90mm Dia).
- Ø The machine can be utilized for various sizes (Diameter) of bottles.
- Ø User friendly and very less maintenance required.
- Ø All pneumatic components are of FESTO make.
- Ø Height can be easily adjusted as per the products.
- Ø Any type of coder can be attached.
- Ø It consists of fibre optic based label gap sensor & product sensor.
- Ø About 10 programs can be set in the PLC for various products..
- Ø Break assembly to avoid variation.
- Ø Label roll of 300 diameter can be installed.
- Ø The product holding roller is driven by geared motor, make PANASONIC.

REFERRAL TECHNICAL SPECIFICATIONS*

Bottle size (Ø)	15mm Ø to 90mm Ø
Output speed	25 to 30 BPM
Label size (H x L)	Min : 15 x 35mm / Max : 90 x 250mm
Working height	Table top
Power Consumption	0.2 KW
Power supply	Single phase, 230V, 50 Hz
Air consumption	3 CFM
Air supply	2 to 4 kg/cm ²
Net weight	150 kgs



*subject to customization

LABELING SYSTEMS

SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø The structure is made of SS304.
- Ø The contact parts are made of SS316.
- Ø Rigid vibration free construction for trouble free performance.
- Ø Machine consists of basic structure , conveyor , dispenser assembly , separator assembly , wrapping assembly and P.L.C.
- Ø Dispenser consists of genuine imported fibre optic based product sensors & label gap sensors.
- Ø Consists of specially designed brake assembly to avoid variation during process of labeling.
- Ø The wrapping belt is made of specialized nylo sponge material for longer life.
- Ø The machine can be set for 10 different programs as per the product size.
- Ø Printing facility (hot foil , cassette coder contact type) can be provided OPTIONAL.
- Ø Any type of product , aluminum / glass / plastic can be accommodated.
- Ø Full / Partial or body labeling is possible.
- Ø No change parts required for different products.
- Ø Product of minimum 15 mm diameter and onwards can be used.
- Ø Useful for round products like Vials / bottles / jars / Tins and container.
- Ø Output speed up to 120 labels / minute.

The most preferred labeling machine for round bottles AUTOMATIC SINGLE SIDE VERTICAL LABELING MACHINE

The Machine with 21 CFR part 11
"Fixed / variable data printer / 2D-Pharma code
bar code printer, scanner & rejection system
can be synchronized with this machine"



REFERRAL TECHNICAL SPECIFICATIONS*

Bottle size (Ø)	15mm Ø to 90mm Ø
Output speed	120 BPM
Label size (H x L)	Min : 15 x 35mm , Max : 90 x 150mm
Working height	800 ± 50mm
Power supply	SinglePhase/230VAC/ 50Hz
Air supply	4 to 6 kg/cm ² (Incaseof Contact Coder)
Net weight	250 kgs

*subject to customization

LABELING SYSTEMS

PREMIUM LABELING MACHINE

The Machine with 21 CFR part 11
"Fixed / variable data printer / 2D-Pharma code
bar code printer, scanner & rejection system
can be synchronized with this machine"



REFERRAL TECHNICAL SPECIFICATIONS*

Bottle size (Ø)	15mm Ø to 90mm Ø
Output speed	Upto 120 BPM
Label size (H x L)	Min : 15mm x 35mm, Max : 90mm x 150mm
Working height	800 ± 50mm
Power supply	SinglePhase/ 230VAC/ 50Hz
Air supply	4 to 6 kg/cm ² (Incaseof Contact Coder)
Net weight	250 kgs

SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø The structure is made of SS304.
- Ø The contact parts are made of SS316.
- Ø Rigid vibration free construction for trouble free performance.
- Ø Conveyor made of specialized noise-less nylo-grip endless rubberized belt for longer life & durability.
- Ø Dispenser consists of genuine imported fibre optic based product sensors & label gap sensors.
- Ø Consists of specially designed brake assembly to avoid variation during process of labeling.
- Ø User friendly since it is easy to operate through PLC.
- Ø No Product - No label.
- Ø Covered with glass doors.
- Ø Most reliable and proven mechanical components such as festo make pneumatics and CE certified electrical / electronics such as bonfigliolie/panasonic make AC motor, delta make drives, PLC & HMI touch screen, sensors, MCBs, relay etc.
- Ø The construction of machine's electrical panel is in line with the IP 55 standard.
- Ø Optional – bar code reader / pharma code reader / Ink jet attachment / auto rejection system is possible on request.

*subject to customization

LABELING SYSTEMS

AUTOMATIC SINGLE SIDE VERTICAL LABELING MACHINE (with in-built Turn Table)

The Machine with 21 CFR part 11
"Fixed / variable data printer / 2D-Pharma code
bar code printer, scanner & rejection system
can be synchronized with this machine"

SALIENT FEATURES:

- Ø Machine suitable for round products like vial / bottles / jars / tin and container.
- Ø Specially designed machine with Inbuilt turn table suitable for online and offline application.
- Ø Output speed upto 120 BPM.



AUTOMATIC SINGLE SIDE VERTICAL LABELING MACHINE (Round & Flat)

SALIENT FEATURES:

- Ø Machine suitable for round products like vials / bottles / jars / tin and container.
- Ø Full or partial labeling on round products is possible.
- Ø Machine can also be used for labeling flat / oval products for single side application.
- Ø Output speed upto 150 BPM.



*subject to customization

LABELING SYSTEMS

AUTOMATIC ROTARY LABELING MACHINE



The Machine with 21 CFR part 11
"Fixed / variable data printer / 2D-Pharma code
bar code printer, scanner & rejection system
can be synchronized with this machine"

SALIENT FEATURES:

- Ø Machine suitable for round products like vials / bottles / jars / tin and container.
- Ø Any type of products like aluminum / glass / plastic can be accommodated.
- Ø Full/Partial or body labeling is possible.
- Ø Products of minimum 15 mm diameter and onwards can be utilized.
- Ø Output speed upto 300 BPM.

AUTOMATIC TOP & SIDE LABELING MACHINE



SALIENT FEATURES:

- Ø Specially designed machine to apply labels on top and side of round / oval / flat products.
- Ø Full or partial labeling on round products is possible.
- Ø Any type of products like aluminum / glass / plastic can be accommodated.
- Ø Output speed up to 150 BPM.

AUTOMATIC DOUBLE SIDE VERTICAL LABELING MACHINE



SALIENT FEATURES:

- Ø Machine comprises with dispenser assembly / feeder assembly / top conveyor and product conveyor and wrapping mechanism.
- Ø Suitable for application of labels on two sides of products like round / flat / oval shape.
- Ø Change parts required for different products.
- Ø Output speed up to 120 to 300 BPM.

*subject to customization

LABELING SYSTEMS

AUTOMATIC SINGLE SIDE VERTICAL HIGH SPEED LABELING MACHINE

SALIENT FEATURES:

- Ø Specially designed machine for applying labels on ampoules and vials.
- Ø Useful for 7 to 30 mm diameter products.
- Ø Body (Wrap around) or partial labeling is possible.
- Ø Consists of infeed and outfeed tray, separator device and worm and star plate for smooth flow with higher output.
- Ø Output speed up to 200 - 600 VPM.



The Machine with 21 CFR part 11
 "Fixed / variable data printer / 2D-Pharma code
 bar code printer, scanner & rejection system
 can be synchronized with this machine"



AUTOMATIC SINGLE SIDE HORIZONTAL LABELING MACHINE

SALIENT FEATURES:

- Ø Specially designed machine to apply labels on products like aluminium / glass / plastic / cartons / batteries / pouches etc.
- Ø Single side labeling in horizontal position.
- Ø Output speed up to 150 PPM.



HOLOGRAM APPLICATOR STAND ALONE UNIT STANDARD

SALIENT FEATURES:

- Ø Specially designed machine for applying holograms on any type and shape of products.
- Ø Can be easily accommodated with any existing machine or conveyor for online production.
- Ø Application like "U" type seal / "L" type seal / vertical seal / horizontal seal and Top and bottom seal.
- Ø Any type of product such as bottles / corrugated box / cartons / pouches etc can be used.
- Ø Output speed up to 200 Labels per minute..



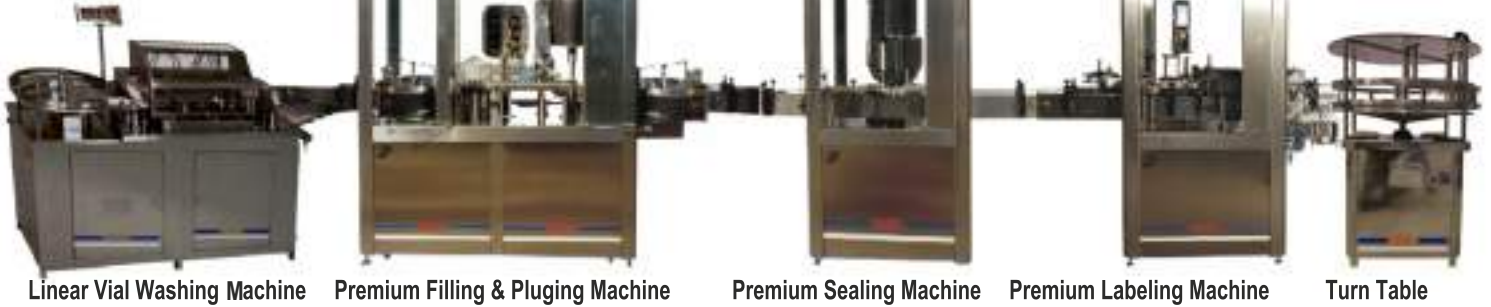
*subject to customization

COMPOSITE LIQUID PACKAGING SOLUTIONS: PHARMACEUTICALS

VIAL PACKAGING LINE



Range : 2ml to 30 ml.
Output Speed : 40 to 150 VPM.



Linear Vial Washing Machine

Premium Filling & Plugging Machine

Premium Sealing Machine

Premium Labeling Machine

Turn Table

LIQUID PACKAGING LINE

Suitable for 30 ml to 500 ml bottles.
Output Speed up to 150 BPM.



Rotary Bottle
Washing Machine

Turn Table

Empty Bottle
Inspection Machine

Filling Machine

Capping Machine

Visual Inspection Machine

Labeling Machine

Turn Table

EYE - EAR DROPS LINE

Range : 2ml to 30 ml.
Output Speed : 120 VPM.



Turn Table

Airjet Cleaning Machine

Filling, Plugging and Capping Machine

Labeling Machine

COMPOSITE LIQUID PACKAGING SOLUTIONS: PHARMACEUTICALS

I. V. PACKAGING LINE (Large Volume Parenterals)

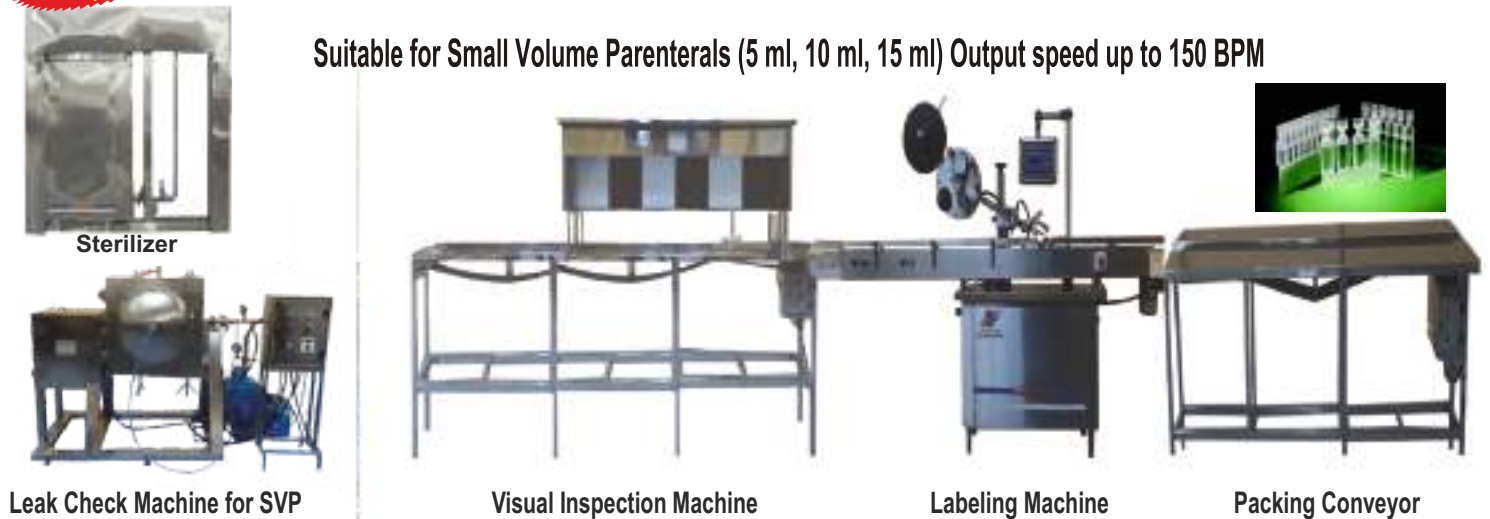
Suitable for I.V.Fluid Bottles. Output speed up to 150 BPM



**Introducing
In India**

I. V. PACKAGING LINE (Small Volume Parenterals)

Suitable for Small Volume Parenterals (5 ml, 10 ml, 15 ml) Output speed up to 150 BPM



*subject to customization

SPECIAL PURPOSE MACHINES

TRIO BLOCK (RINSER / FILLER / CAPPER)

SALIENT FEATURES:

- Ø Structure frame of MS cladded platform and housings of SS 304.
- Ø Rinse fill & seal cycle, fully Trio-block for total filling hygiene. The whole process is automatic.
- Ø Bottle in-feed using high pressure air conveyor with air filter on suction side.
- Ø Machine with neck holding system by design, so few change part required for different shape of bottles.
- Ø The filling operation is faster and more stable due to the micro-pressure filling method.
- Ø Electrical control panel mounted.
- Ø User friendly acrylic doors.
- Ø NO BOTTLE / NO RINSE / NO FILL / NO CAP.
- Ø Main machine motor with variable speed & AC drive.
- Ø Automatic PLC control speed regulation.
- Ø The advanced PLC is adapted to control the machine runs automatically, air conveyor system is adopted in bottle entry section and belt conveyor system is adopted in bottle exit section, which can adjust speeds and coordinated with transducer of the main machine to make the operations of moving bottle forward steadily and reliable.
- Ø Fully automatic rotor to rotor transfer without any human interruption. It is convenient to operate with higher automation due to every parts of the machine is inspected with photo electrical detector.
- Ø Torque adjustable capping heads using PICK & PLACE provided.
- Ø SS 316 material used for filling valves.
- Ø In-feed can be linked directly with automatic blow moulding machine. (Optional at extra cost).



REFERRAL TECHNICAL SPECIFICATIONS*

Model No.	HMPL16-16-5	HMPL18-18-6	HMPL 24-24-8	HMPL32-32-10
Rinsing Head No.	16	18	24	32
Filling head No.	16	18	24	32
Capping head No.	5	6	8	10
Capacity (B/H) (For 500ml)	5000	8000	10000	12000
Motor Power	3Kw	3Kw	4Kw	4.8Kw
Total Weight Approx.	3.2T	3.6T	4.5T	4.8T

Dimension (LXWXH) Approx.

HMPL 16-16-5	2650 X 1850 X 2400 mm
HMPL 18-18-6	2750 X 2050 X 2400 mm
HMPL 24-24-8	3050 X 2250 X 2400 mm
HMPL 32-32-10	3800 X 2800 X 2300 mm

*subject to customization

SPECIAL PURPOSE MACHINES

PHARMA : PRE-FILL SYRINGE PACKAGING SYSTEM

PFS FILLING & STOPPERING SYSTEM FOR VISCOUS / AQUEOUS DRUGS*

SALIENT FEATURES:

- Ø Machine is a compact, elegant and matt (dull) finished encompassed with stainless steel (ss 304)
- Ø EFD (engineered fluid dispensing) unique filling system suitable to fill
- Ø *Viscous substance (1 ml to 3 ml) / aqueous substance (0.5 ml to 3 ml) accurately with the help of change parts.
- Ø Filling system is well supported with pressure tank for easy fluid transfer
- Ø Perfect synchronization of filling and stoppering cycles through pneumatically controlled stoppering mechanism.
- Ø Compact and feather touch control panel for easy control of the machine operation.
- Ø CIP, SIP ready system
- Ø No air inside the syringe tube.
- Ø Calibration facility inbuilt.
- Ø Very easy & accurate electronic based volume setting of different pre-fill syringes.
- Ø Zero drip nozzle.
- Ø Each process can be seen on the PLC display.
- Ø Pharma grade silicon pipes are used for machine filling process, so it is very easy to clean the system at higher temperature.
- Ø Diving system with the design of germany make ball screw and stepper motor control which has no vibration and very smooth kind of filling and system itself take care that, filling material must be fill centrally in the syringe.
- Ø Design of nozzles and adjustment of flow rate is very useful for filling without air bubble / foaming in the syringes.



REFERRAL TECHNICAL SPECIFICATIONS*

MODEL	HMPL VISCOFILL 20
Suitable for	Viscous substance (1 ml to 3 ml) / aqueous substance (0.5 ml to 3 ml) with the help of change parts.
Filling station	1 NO.
Output / minute	20 PFS per minute @ 1ml (Output may vary based on nature of the filling substance and volume)
Dosing accuracy	± 1%
Power consumption	2 KW
Power supply	Three phase / 440V AC / 50Hz (Stabilized)
Working height	850mm ± 50mm
Air consumption	5 CFM
Air supply	6 to 8 Kg / cm ²
Nitrogen supply	5 CFM pressure(Customer scope)

*subject to customization

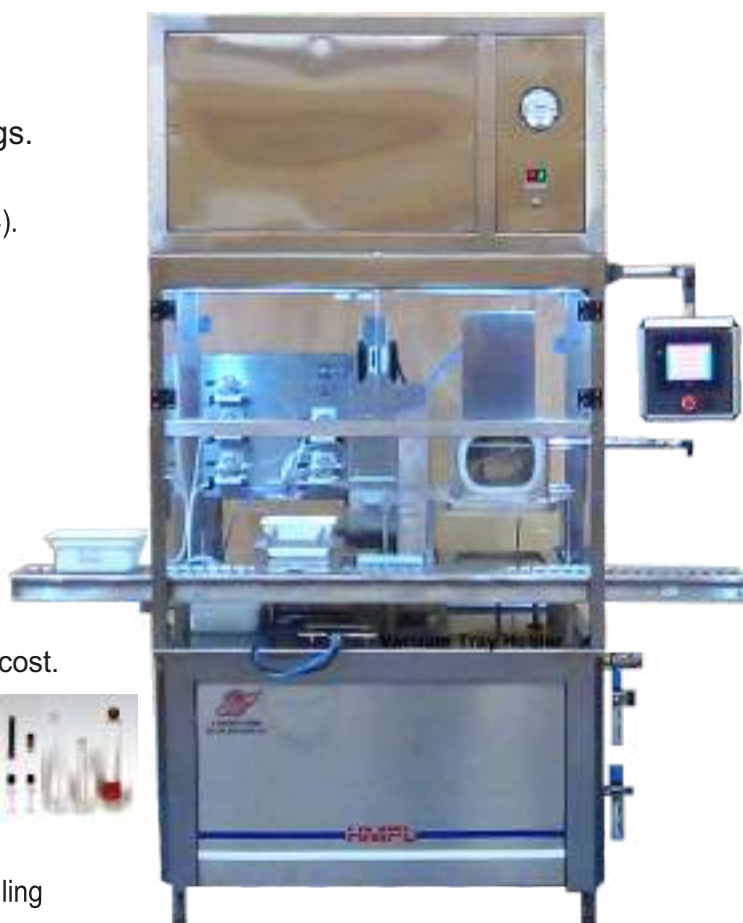
SPECIAL PURPOSE MACHINES

PHARMA : PRE-FILL SYRINGE PACKAGING SYSTEM

PFS FILLING & STOPPERING SYSTEM FOR AQUEOUS DRUGS (0.2ml TO 5ml)

SALIENT FEATURES:

- Ø Specialized filling system for aqueous drugs.
- Ø Machine is a compact, elegant and matt (dull) finished encompassed with stainless steel (ss 304).
- Ø Specially imported unique filling system to fill small volumes like 0.2ml, 0.3 ml etc. Accurately.
- Ø Synchronized operation through PLC.
- Ø Perfect synchronization of PLC based cycles, filling stroke and valve less pump.
- Ø Pneumatically controlled stoppering mechanism.
- Ø Compact and feather touch control panel for easy control of the machine operation.
- Ø CIP / SIP ready system.
Synchronized LAF can be offered at additional cost.
- Ø Calibration facility inbuilt.
- Ø Very easy & accurate electronic based volume Setting of different pre-fill syringes.
- Ø Zero dripping filling stations.
- Ø Pharma grade silicon pipes are used for machine filling process, so it is very easy to clean the system at higher temperature.
- Ø Diving system with the design of germany make ball screw SND stepper motor control which has no vibration and very smooth kind of filling and system itself take care that, filling material must be fill centrally in the syringe.
- Ø Basic filling unit is autoclavable as per international requirement.



REFERRAL TECHNICAL SPECIFICATIONS*

MODEL	HMPL ACCUFILL 20
Suitable for	0.2 ml to 5 ml* * WITH THE HELP OF CHANGE PARTS
Filling station	1 NO.
Output / minute	20 PFS @1 ML WITH 1 FILLING STATION (aqueous drug)
Dosing accuracy	± 1%
Filling capacity	0.2ml onwards
Power consumption	2 KW
Power supply	Three phase, 440V, 50Hz (Stabilized)
Net weight	350 kgs
Working height	850mm ± 50mm
Air consumption	5 CFM
Air supply	6 to 8 Kg / cm ²
Nitrogen supply	Provide by customer at 5 CFM pressure

*subject to customization

SPECIAL PURPOSE MACHINES

PHARMA : PRE-FILL SYRINGE PACKAGING SYSTEM

FULLY AUTOMATIC PFS FILLING & STOPPERING SYSTEM WITH CLEAN ROOM ROBOT

HMPL/ACCUFILL: ADVANCED/20

(suitable for pre fill syringes in tub form & rubber stoppers in bagged form)

Ø HMPL / ACCUFILL: ADVANCED/20

- Ø Fully automatic pre fill syringe filling & stoppering system in compliance with FDA.
- Ø Proud outcome of consistent R & D done by **HMPL** indigenously.
- Ø Preset to fill aqueous substance in class 100 area @ 20 syringes per min.
- Ø Suited for tubbed PFS (MATRIX OF 100/160) & PRE STRILIZED stoppers in bag with autoclavable components & is SIP compatible. (As per general SIP norms).



HMPL/ACCUFILL: ADVANCED/20 consist following components:

IN FEED & OUT FEED CLEAN ROOM LOW FRICTION CONVEYOR

Transportation of empty PFS to filling & stoppering unit & transportation of filled & stoppered PFS out of system.

CLEAN ROOM ROBOTIC SYSTEM WITH SPECIALIZED LOW FRICTION STAR WHEEL

Robotic system enables individual empty syringe movement from the tub to filling & stoppering stations & to reposition filled & stoppered syringe in the tub.

*UNIQUE FILLING SYSTEM

The filling system is based on Valve less syringe filling system* for accurate filling of smaller volume (0.2ml and onwards).

*Please refer USPs & benefits of filling unit.

PIPE IN PIPE OUT STOPPERING SYSTEM

Pipe in pipe out stoppering assembly has a positive feeding vibratory bowl with customized chute to deliver individual stopper to specially designed pipe for stoppering operation.

LAMINAR AIR FLOW UNIT

customized LAF in sync with the system.

PLC

Specialized pre programmed PLC to operate entire system.

*subject to customization

SPECIAL PURPOSE MACHINES

FMCG / DAIRY / FOOD / PESTICIDES : ADVANCE SHRINK SLEEVE APPLICATOR

For Full Body / Neck / Partial Sleeving.



REFERRAL TECHNICAL SPECIFICATIONS*

Product size (Ø)	As per sample
Output speed	60 to 150 PPM
Working height	860 ± 50MM
Sleeve Material	OPS, PET & PVC with 50 Micron (65% Shrink Ratio)
Power Consumption	3.0 kw
Power supply	3Phase+Neutral+Earthing / 440V AC / 50Hz
Net weight	550 kgs
Dimensions	4270mm (L) X 1200mm (W) X 2000mm

Automatic Sleeve Applicator - Neck:



- Specially Designed for Neck sleeving
- Higher output@ 200 BPM*
- PLC Controlled Operation
- No Change Part for Multiple Products With Same Neck Diameter

*subject to customization

SALIENT FEATURES:

- Ø The unit is made compact & versatile as per GMP norms.
- Ø Rigid vibration free construction for trouble free performance.
- Ø The SS 304 slat conveyor for proper product conveying.
- Ø In-feed screw for the positive feeding of bottle (body sleeve) / Belting system for the positive feeding of bottle (neck sleeve).
- Ø In case roll gets over, there is alarm notification (buzzer) for indicating the same.
- Ø Web guide control to ensure that there is no lateral movement of sleeve laminate.
- Ø Separate Stepper Motors for controlling the movement of rotary brushes to ensure that sleeve is properly settled on bottle.
- Ø Gaskets, seals and O-rings are constructed of food grade/ non-toxic polymeric materials only.
- Ø NO BOTTLE NO SLEEVE mechanism.
- Ø Unique compact tunnel with minimal power consumption.
- Ø The tunnel comprised of pre and post heat shrink zone to shrink the sleeve on bottle.
- Ø Overhead convection fan for precise cooling at output.
- Ø Digital temperature controller to ensure that uniform temperature is maintained at the time of shrinking.
- Ø Sleeve feeding controlled by PLC for the accurate feeding of sleeve.
- Ø Specially designed rotary cutter device with PLC controlled for cutting of sleeve.
- Ø Emergency stop function on accessible area.
- Ø Total operation of the machine like speed of conveyor, speed of feeder, length of sleeve, cutting speed etc. are controlled by PLC.
- Ø Easy to operate PLC by mean of touch screen HMI.
- Ø Most reliable and proven components such as Festo / SMC make pneumatic and electric/electronic components such as Panasonic/Bonfiglioli/Motovario make AC motor, Delta/Allen Bradley make AC Drive, PLC & HMI, Sensor LEUZE/BANNER/SUNX, MCB & relay "X" make.

SPECIAL PURPOSE MACHINES

AUTOMATIC CARTONING MACHINE



SALIENT FEATURES

- ∅ The unit is made compact & versatile as per GMP norms.
- ∅ The Structure is made of SS 304.
- ∅ Rigid Vibration free construction for trouble free performance. The synchronized horizontal pushing system for feeding the bottles in the machine.
- ∅ Specially designed adjustable start / stop type bucket conveyor for conveying the bottles and specially designed chain type start / stop feeder conveyor for the cartoons.
- ∅ Automatic leaflet inserting device with the required no. of folds (2, 3, 4) and required types (Z type, Q type, parallel type) -OPTIONAL.
- ∅ The machine has a facility of no leaflet bottle reject system (Incase of leaflet inserting). Carton stacker has a facility of stacking 1000 nos. Cartons.
- ∅ Facility of no bottles no cartons.
- ∅ Facility of no cartons machine stop.
- ∅ Provision of safety interlock of door opening.
- ∅ Specially Designed vacuum device for pick up of cartons and opening of cartons.
- ∅ No use of vacuum pump to avoid maintenance. Machine has a specially designed air vacuum generator for the operation of different assembly such as leaflet pick up and carton pick up.
- ∅ Adjustable bottle pusher for different size of bottles.
- ∅ For the various of products, machine has the facility to chain width.
- ∅ For the various of products, machine has the facility for height adjustment by the mean of adjusting screws.
- ∅ For the various of products, machine has the facility for length adjustment by the mean of adjusting guide Plate.
- ∅ Adjustable flaps closing system for side (Top and Bottom) flap for various size of cartons.
- ∅ Very less change parts required for change over of the product. The whole operation is controlled by easy to operate PLC.
- ∅ Speed of the machine is synchronized with the PLC and easy to adjust by mean of HMI.
- ∅ Product counter facility is inbuilt in the machine to know the daily production rate.
- ∅ All the setting parameters with password protection to avoid any mishandling during machine operation.
- ∅ Special Kind of HMI mounting panel with 180° rotation Facility for easy handling of such a 12 feet long machine.
- ∅ For the initial setting of the machine, it has a JOG facility itself on HMI.
- ∅ Any kind of fault will be displayed on touch Screen HMI for easy understanding for the same.
- ∅ Machine has online embossing facility for the batch coding - OPTIONAL.

TECHNICAL SPECIFICATION:

Model	HMPL AC	Power Supply	3 phase, Neutral + earthing, 440V, 50Hz
Box Size	Max : 205 x 90 x 75mm (L*W*H) Min : 80 x 20 x 15mm (L*W*H)	Air Supply	6 to 8 kg/cm ²
Leaflet size (Incase of)	Max : 260 x 196mm (L*W*H) Min : 110 x 110mm (L*W*H)	Air Consumption	5 CFM
Output Speed	up to 200 cartons/minutes.	Net Weight	1200 kg
Working Height	850 x 50mm	Dimensions	2800 x 1350 x 2000mm (L*W*H)
Power Consumption	1.15 KW	Carton Paper Thickness	250 gsm 350 gsm
		Leaflet paper thickness	55 gsm 60 gsm

*subject to customization

SPECIAL PURPOSE MACHINES

Tube Filling and Sealing Machine



SALIENT FEATURES:

- Ø The unit is made compact & Versatile as per GMP Norms.
- Ø Structure is made of MS cladded with SS 304.
- Ø This machine is specially designed to fill, seal and code the Aluminium / LAMI / PVC Tubes.
- Ø It can be used to fill viscous as well as semi viscous materials in LAMI / PVC Tubes.
- Ø Machine preset with 20gms to 100gms Piston & Cylinder.
- Ø All the contact parts are made of SS 316 (GMP Model).
- Ø Tube holders are made of nylon for different diameter of tube.
- Ø Relay electrical control systems operating panel with START, STOP and INCH.
- Ø SENSOR BASE NO TUBE NO FILLS MECHANISM.
- Ø Specially designed hot air sealing unit to seal PVC tubes.
- Ø Motor with variable speed.
- Ø All moving parts are guarded / enclosed.
- Ø Coding Device with 10 letters for one side.
- Ø Hopper temperature thermocouple with digital display.

TECHNICAL SPECIFICATION:

Model	HMPL-TFS
Tube Diameter	12 mm Ø to 50 mm Ø (Standard)
Tube Length	50 mm to 200 mm
Filling Capacity	20gms to 250gms Aluminium / LAMI / PVC Tubes (With the help of required change parts)
Output Speed	20 to 150 Tubes/Minute (Depending on viscosity of material, manual loading)
Power Consumption	2 HP Main Motor / 1 HP Stirrer Motor / 1 KW Jacketed Water Heater (Total 3 KW)
Compressed Air	4 to 5 Bar 100 L/Minute (If have sticky material)

ANCILLARIES

PACKING CONVEYORS



INSPECTION CONVEYORS



SS SLAT CONVEYORS



TURN TABLE



ROLLER CONVEYORS

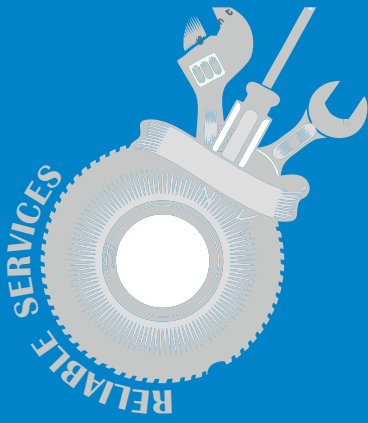


MAG. GLASS CONVEYORS



BEND CONVEYORS





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Before, During and after
the sale in

INDIA

and around the

WORLD



The Only direction for leaders



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