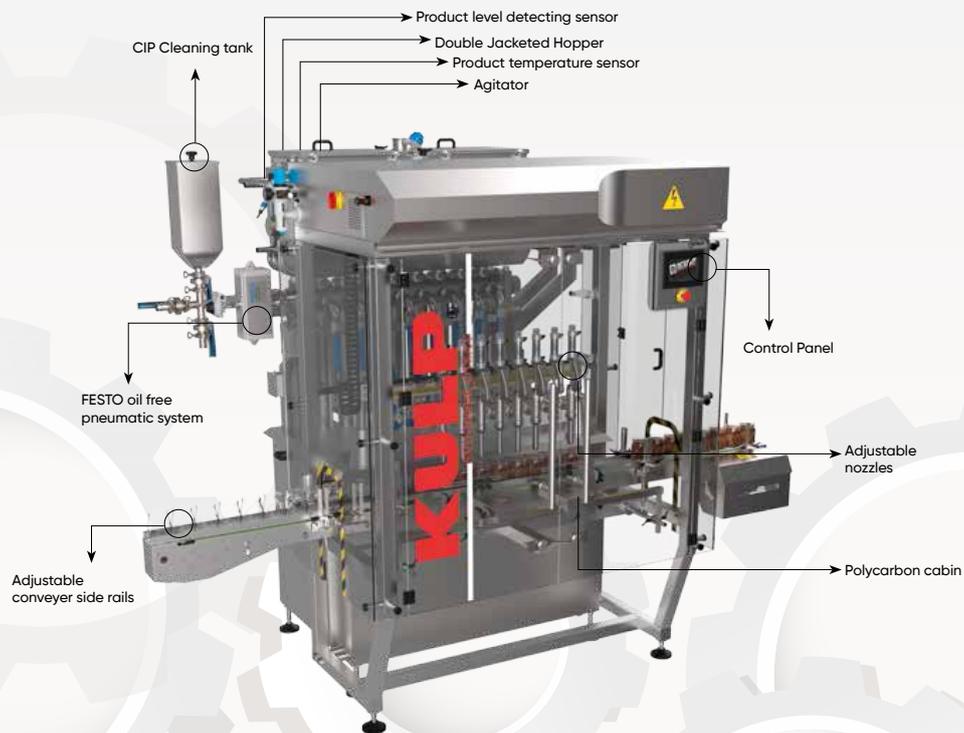




# ECO COSMOS

Food Processing Equipments

## AUTOMATIC FILLING MACHINES



Office : KH No : 411, G/F, Street No. 6, Block A, Mahipalpur, New Delhi : 110037 (INDIA)

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# SERVO MOTOR

## Filling Liquid, Viscous and Products with Particles

FESTO PNEUMATICS  
OMRON HMI & PLC  
OMRON SERVO MOTORS  
SICK PHOTOCELLS

- Servo motor controlled filling cylinders and diving nozzles.
- Works with a 3 way control valve (PVD) that shuts off the product flow from the hopper, while opening it in another way, so that it allows viscous products and particles through the nozzles (up to 30 mm large).
- Another model (PDD) is available for liquid products only, works with a check valve that allows the product flow in one direction and automatically prevents it to come back.
- The volume adjustment can be done through the touch screen easily.
- Primes the product from a hopper with an automatic level control system.
- Interchangeable filling nozzles designed for liquids and viscous products, with an anti-dripping system.
- Bottom-up filling for foamy products with adjustable speed.
- Filling accuracy :  $\pm 1\%$
- Suitable for hot and cold filling processes.
- The parts in contact with the product are inn 316L stainless steel.
- Lighted polycarbonate cabin with a security swich on the doors.
- Adjustable conveyer with side rails for various package sizes, shapes and materials.
- The working system is pneumatic and electronic. It operates with 6 bars compressed air.
- Optional additions:
  - C.I.P. suitable cleaning system.
  - Double Jacketed Hopper.
  - Agitator.
  - Filling Pistons' Back Side Cleaning System.

# AUTOMATIC FILLING MACHINES



SVD-1000-4\_OTSA



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# SERVO MOTOR

## Filling Liquid, Viscous and Products with Particles

Model	Filling Range (ml) (Min. - Max.)		Number of Cylinders	Capacity** (Packages/ Hour)	Hopper volume (Lt.)	Dimensions (mm)		
	W	H				L		
SVD1000-4 OTSAY SDD1000-4 OTSAY	100	1000	4	3000	100	2080	3000	2271
SVD1000-6 OTSAY SDD1000-6 OTSAY	100	1000	6	4500	130	2080	3000	2430
SVD1000-8 OTSAY SDD1000-8 OTSAY	100	1000	8	6000	180	1810	3000	2400
SVD2000-4 OTSAY SDD2000-4 OTSAY	200	2000	4	2600	100	2080	3000	2271
SVD2000-6 OTSAY SDD2000-6 OTSAY	200	2000	6	3900	130	2080	3000	2430
SVD2000-8 OTSAY SDD2000-8 OTSAY	200	2000	8	5200	180	1810	3000	2400
SVD5000-4 OTSAY SDD5000-4 OTSAY	1000	5000	4	2000	150	1680	3000	2235

\*\* The filling capacity of the fillers can increase or decrease according to the physical specifications (viscosity, foaming, stickiness) of the product to be filled and the use diving nozzles (bottom to up filling). The filling capacities above are specified according to the maximum filling ranges.

## AUTOMATIC FILLING MACHINES



SDD-5000-4 OTSAY



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# PNEUMATIC

## For liquid, viscous and Products with particles

FESTO PNEUMATICS  
OMRON HMI & PLC  
OMRON SERVO MOTORS  
SICK PHOTOCELLS

- Pneumatic controlled filling cylinders and diving nozzles.
- Works with a 3 way control valve (PVD) that shuts off the product flow from the hopper, while opening it in another way, so that it allows viscous products and particles through the nozzles (up to 30 mm large).
- Another model (PDD) is available for liquid products only, works with a check valve that allows the product flow in one direction and automatically prevents it to come back.
- The volume adjustment can be done through the touch screen easily.
- Primes the product from a hopper with an automatic level control system.
- Interchangeable filling nozzles designed for liquids and viscous products, with an anti-dripping system.
- Bottom-up filling for foamy products.
- Filling accuracy :  $\pm 1\%$
- Suitable for hot and cold filling processes.
- The parts in contact with the product are inn 316L stainless steel.
- Lighted polycarbonate cabin with a security swich on the doors.
- Adjustable conveyer with side rails for various package sizes, shapes and materials.
- The working system is pneumatic and electronic. It operates with 6 bars compressed air.
- Optional additions:
  - C.I.P. suitable cleaning system.
  - Double Jacketed Hopper.
  - Agitator.
  - Filling Pistons' Back Side Cleaning System.

## AUTOMATIC FILLING MACHINES



PVD-1000-2\_OTPAY



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# PNEUMATIC

For liquid, viscous and Products with Particles

Model	Filling Range (ml) (Min. / Max.)		Number of Cylinders	Capacity** (Packages/ Hour)	Hopper volume (Lt.)	Dimensions (mm)		
	W	H				L		
PVD200-2 OTPAY PDD200-2 OTPAY	5	200	2	1600	50	1200	1500	1700
PVD200-4 OTPAY PDD200-4 OTPAY	5	200	4	3200	50	1200	1500	1700
PVD200-6 OTPAY PDD200-6 OTPAY	5	200	6	4800	80	1200	2000	1700
PVD200-8 OTPAY PDD200-8 OTPAY	5	200	8	6000	80	1200	2000	1700
PVD1000-2 OTPAY PDD1000-2 OTPAY	100	1000	2	1500	100	1600	2500	2300
PVD2000-2 OTPAY PDD2000-2 OTPAY	200	2000	2	1200	100	1600	2500	2300
PVD5000-2 OTPAY PDD5000-2 OTPAY	1000	5000	2	840	100	1600	2500	2300

\* The servo motor control can be included to these machines according to the customer's request.

\*\* The filling capacity of the fillers can increase or decrease according to the physical specifications (viscosity, foaming, stickiness) of the product to be filled and the use diving nozzles (bottom to up filling). The filling capacities above are specified according to the maximum filling ranges.

## AUTOMATIC FILLING MACHINES



PDD-200-8\_OTA



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# MECHANICAL

## Filling Liquid & Viscous Products

FESTO PNEUMATICS  
SICK PHOTOCELLS

- The filling pistons and diving nozzles are moved mechanically.
- The volume adjustment can be done through a wheel inside the machine.
- This model is available with two filling heads.
- The filling nozzles motion are diving constantly.
- Interchangeable filling nozzles designed for liquids and viscous products, with an anti-dripping system.
- Primes the product from a 100 liters hopper with an automatic level control system.
- Filling accuracy :  $\pm 1\%$
- Suitable for hot and cold filling processes.
- Adjustable conveyer with side rails for various package sizes, shapes and materials.
- The machine works with cam system.
- Optional additions :
  - C.I.P. suitable cleaning system.
  - Double Jacketed Hopper.
  - Agitator.
  - Filling Pistons' Back Side Cleaning System.

## AUTOMATIC FILLING MACHINES



**CAPACITY**  
**1400** PACKAGE/HOUR  
Min : 100ml - Max : 1000ml

KDD-1000-2\_OT



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FESTO PNEUMATICS  
OMRON HMI & PLC  
SICK PHOTOCELLS

**Examples:** Vinegar and Oil,  
Sauce and Oil, Balsamic and  
Oil, Lemon Juice and Oil,  
Yogurt and Jam, etc.



- These machines are designed to fill two different products into a single package in a constant ratio.
- Includes two separate filling systems for each component with separate filling adjustments.
- The volume adjustment can be done by a hand wheel and a numerator on the machine.
- Interchangeable filling nozzles designed for liquids and viscous products, with an anti-dripping system.
- Bottom-up filling for foamy products.
- Filling accuracy :  $\pm 1\%$
- Suitable for hot and cold filling processes.
- The parts in contact with the product are inn 316L stainless steel.
- Adjustable conveyer with side rails for various package sizes, shapes and materials.
- The working system is pneumatic and electronic. It operates with 6 bars compressed air.

Model	First Product	Second Product	Capacity** (Packages/ Hour)	Dimensions (mm)		
	Filling Range (ml) (Min. - Max.)	Filling Range (ml) (Min. - Max.)		W	H	L
VD50-4 FOT / VD10-4 FOT	5ml - 50 ml	2ml - 10 ml	4000	1300	3000	2200
VD500-6 OT / VD150-6 OT	50ml - 500ml	15ml - 150ml	3000	1500	3000	2200
PDD200-8 OTA / PDD50-8 OTA	20ml - 200ml	5ml - 50ml	4800	1500	4000	1700

\* The servo motor control can be included to these machines according to the customer's request.

\*\* The filling capacity of the fillers can increase or decrease according to the physical specifications (viscosity, foaming, stickiness) of the product to be filled and the use diving nozzles (bottom to up filling). The filling capacities above are specified according to the maximum filling ranges.

## TWO COMPONENT FILLING MACHINES



VD500-6\_OT+VD150-6\_OT

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# MECHANICAL

## Manual Placing of the Caps, Automatic Capping

FESTO PNEUMATICS  
OMRON HMI & PLC  
SICK PHOTOCELLS

### Options:

C.I.P. suitable cleaning system.  
Double Jacketed Hopper.  
Agitator  
Optional Filling Piston Back  
Side Cleaning System.etc.

- Volumetric filling unit and one capping unit within the same frame, reducing the cost and the size of the machine.
- Two interchangeable filling nozzles designed for liquids and viscous products, with an anti-dripping system.
- The caps are placed manually and automatically closed by the capping system with the required torque.
- The volume adjustment can be done by a hand wheel and a numerator on the machine.
- Primes the product from a hopper with an automatic level control system.
- Bottom-up filling for foamy products.
- The working system is pneumatic an electronic. It operates with 6 bars compressed air.
- The capping head can be changed easily according to different types and sizes of caps.
- Ideal for twist-off caps, plastic screw caps, push-on caps another model is available for plastic and metal lids on buckets.
- Adjustable conveyer with side rails for various package sizes, shapes and materials.

Model	Filling Range (ml)		Capacity** Unit/Hour	Dimensions (mm)			Working mode
	Min.	Max.		W	H	L	
PVD200-2 FOTPAY	5ml	200ml	1600	1200	2000	1850	Pneumatic
PVD1000-2 FOTPAY	100ml	1000ml	1500	1600	2500	2300	Pneumatic
KDD1000-2 FOTPAY	100ml	1000ml	1500	1400	1800	1900	Mechanical
PVD2000-2 FOTPAY	200ml	2000ml	1200	1800	4000	2300	Pneumatic
PVD5000-2 FOTPAY	1000ml	5000ml	840	1600	2500	2300	Pneumatic

## TWO COMPONENT FILLING MACHINES



PVD-1000-2\_FOTPAY

PVD-2000-2\_FOTPAY



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# FILLING & CAPPING

## Automatic Sorting, Placing and Capping

FESTO PNEUMATICS  
OMRON HMI & PLC  
SICK PHOTOCELLS

### Options:

C.I.P. suitable cleaning system.  
Double Jacketed Hopper.  
Agitator  
Optional Filling Piston Back  
Side Cleaning System.etc.

- Consist of one volumetric filling unit and one capping unit within the same frame, reducing the cost and the size of the machine.
- Four or Six interchangeable filling nozzles designed for liquids and viscous products, with an anti-dripping system.
- The caps are delivered to the sorting system by the cap elevator.
- The sorting system distributes the caps to the cap chute and dispensing blade in the correct position.
- The caps are automatically placed on the packages and closed by the capping system with the required torque.
- The capping head can be changed easily according to different types and sizes of caps.
- The volume adjustment can be done by a hand wheel and a numerator on the machine.
- The level control system is synchronized with the transfer pump to start or stop.
- Bottom-up filling for foamy products.
- The working system is pneumatic an electronic. It operates with 6 bars compressed air.
- Ideal for twist-off caps, plastic screw caps, push-on caps
- Adjustable conveyer with side rails for various package sizes, shapes and materials.

Model	Filling Range (ml)		Capacity** Unit/Hour	Dimensions (mm)			Working mode
	Min.	Max.		W	H	L	
PVD200-4 FOTPAY	5ml	200ml	4000	1500	3000	2100	Pneumatic
PVD500-6 FOTPAY	100ml	1000ml	3000	1400	3000	2100	Pneumatic
SVD1000-6 FOTPAY	100ml	1000ml	3900	1500	5500	3000	Servo Motor

## MONOBLOCK MACHINES



PVD-500-6\_FOTSA

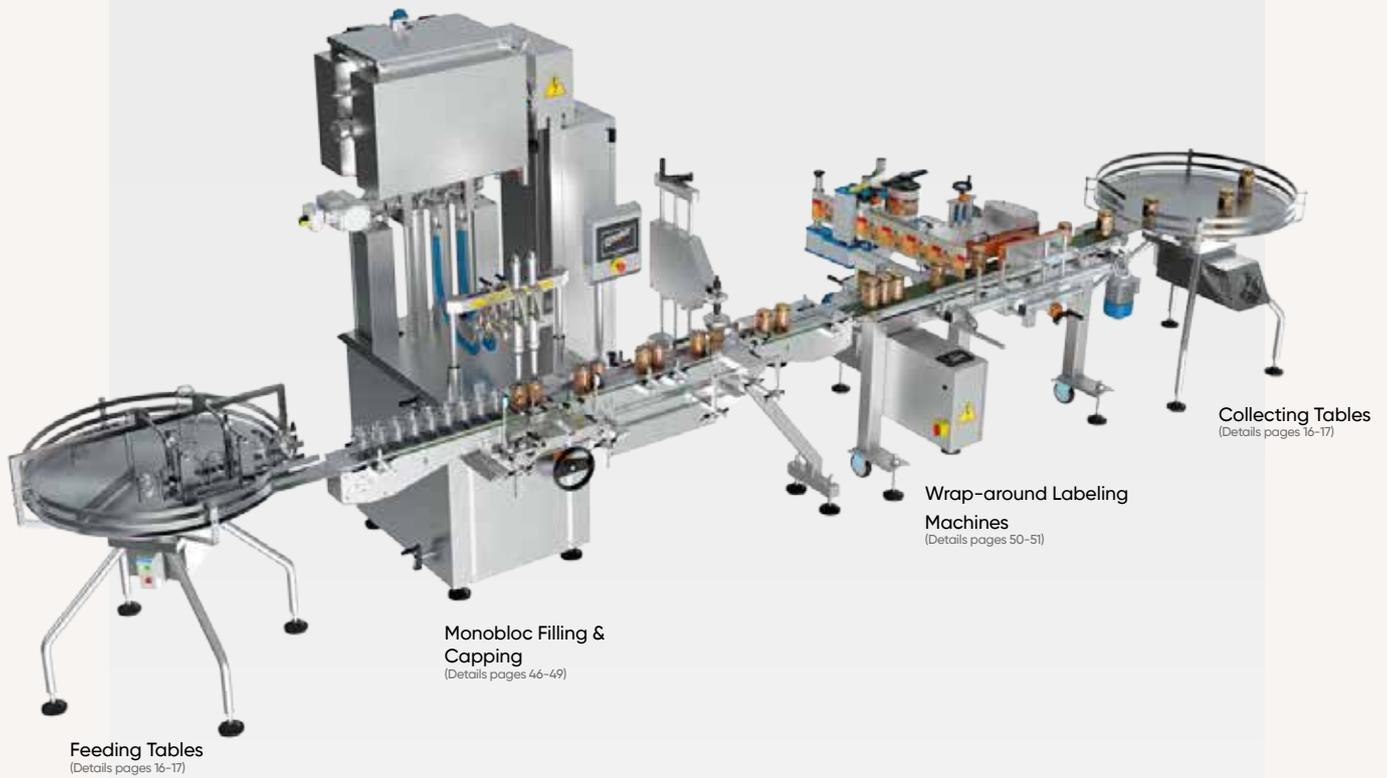


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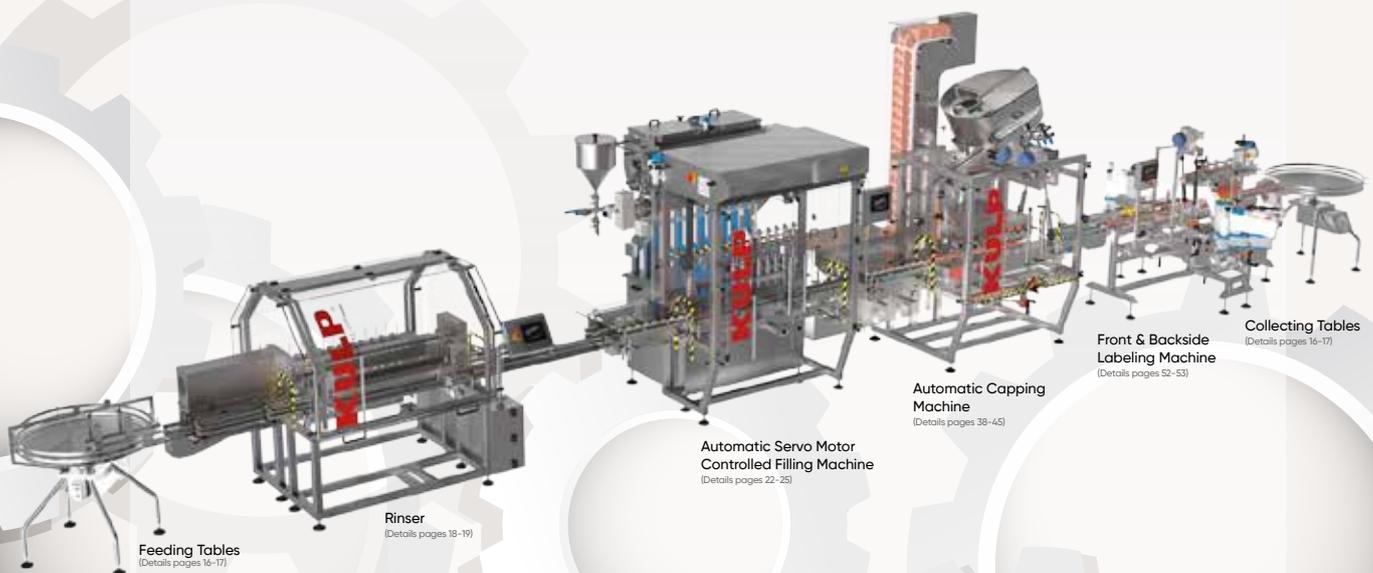
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# MEDIUM CAPACITY LINE

# FILLING LINES



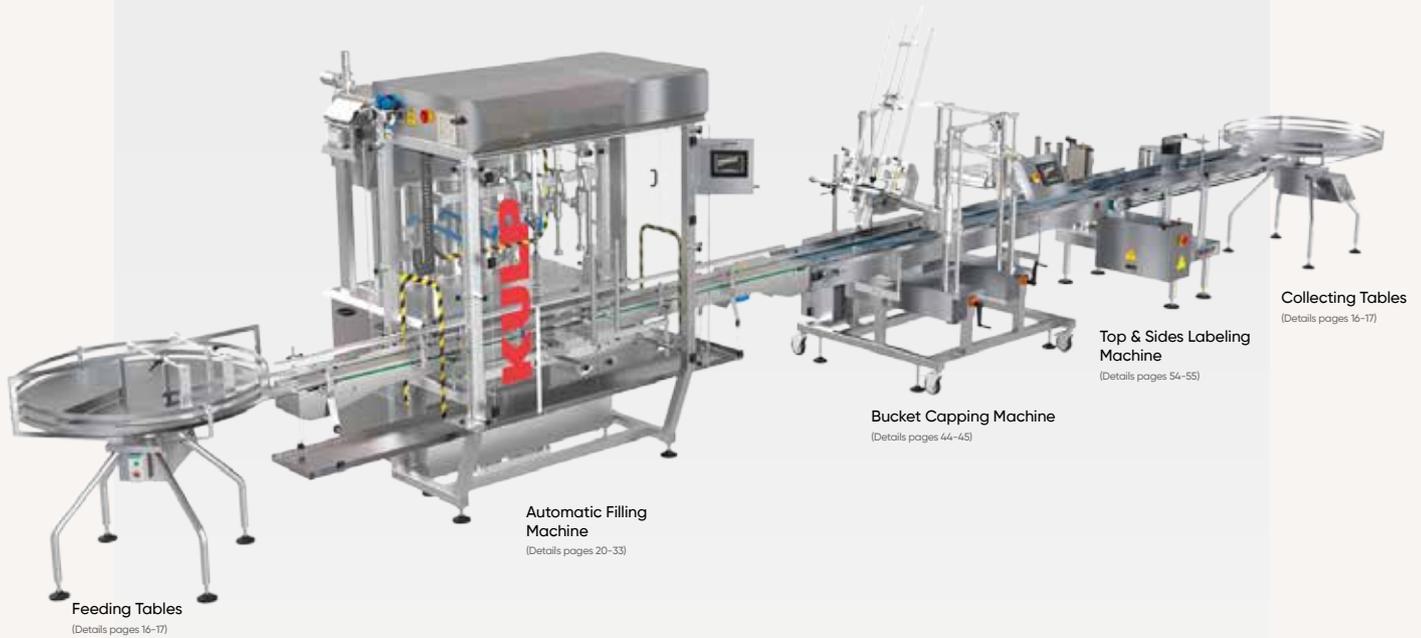
# HIGH CAPACITY LINE



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# LINE FOR BUCKETS & CANISTERS



**Feeding Tables**  
(Details pages 16-17)

**Automatic Filling Machine**  
(Details pages 20-33)

**Bucket Capping Machine**  
(Details pages 44-45)

**Top & Sides Labeling Machine**  
(Details pages 54-55)

**Collecting Tables**  
(Details pages 16-17)