



COFFEE PACKAGING -SOLUTION



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HM MACHINERY MANUFACTURE CO., LTD

HM Advantages :



Company Profile

HM Machinery Manufacture Co., Ltd is a professional Manufacturing, sales of intelligent food packaging machinery, packaging systems and various automation control equipments supplier, we are especially on coffee capsule filling production packaging line. We have set up after-sale service department in United States, Canada, Mexico and Argentina.

We have professional and big strong technology teams are research and development of coffee packaging machinery. We have HSP-1, HSP-2, HSP-4 HSP-6 and HSP-8 models automatic coffee capsule filling and sealing machines, which compatible Nespresso capsule, Dolce gusto, Lavazza blue, Point, K-cup, Upshot, Coffee Pod etc. our HSP serial packaging machines with high filling accuracy, stable working performance, and good appearance, which have won the favor of customer. Our equipments has obtained many technical invention patents such as CE, UL certification, ISO9001 quality management system certification, and got a number of science and technology project awards.

Certifications:



HSP-Serial Kcup Filling Sealing Machine

Application:

HSP serial machine is suit for various granule, powder and liquid material, Such as coffee, milk powder, tea, instant powder, yogurt and other food materials.

Applicable capsules: Kcup, Nespresso, Dolce gusto, Lavazza, Upshot, K-shot, OneCup.

Main Function:

- 1-Automatically accomplish all production process, small volume, operate easily.
- 2-PLC control system and full display and real-time monitoring
- 3-Automatically load capsule/ cup to machine
- 4-Automatically vacuum suck and transport coffee/powder material
- 5-Servo control auger filling.
- 6-Filling liquid system (various flavor)
- 7-Automatically clean capsule rim remaining powder
- 8-UV germicidal lamp (option)
- 9-Automatically suck and place lid.
- 10-Filling nitrogen system, nitrogen flush process from empty capsule to heat seal station.
- 11-Automatically heat seal, line seal and flat seal.
- 12-Automatically output finished products.
- 13-Automatically reject unqualified product.
- 14-Automatically count capsule quantity on conveyor belt: sensor detect empty cups loading position, no cup and alarm.
- 15-No cup no filling, no sealing, if empty cup on the mould, will automatically start reject function for recycle use.
- 16-Automatically detect lids quantity, below a cert position, alarm and inform add lids.
- 17- Machine adopts food standard stainless steel, organic glass door design, beautiful appearance, high safety.
- 18-Automatically count finished products.
- 19-Failure tips display on the touch screen.



1. Conveyor of capsule



2. Drop kcup



3. Insert filter



4. UV sterilization + Nitrogen filling



5. Coffee lifting into machine hopper



6. Coffee filling system



7. Liquid flavor filling



8. Lid holder



9. Finished capsule sucking to conveyor

Technical Parameter:

NO.	Model	HSP-1 / 2 / 4 / 6 / 8
1	Speed	30/60/120/180/240 Cups/minute
2	Working station	1 / 2 / 4 / 6 / 8 lanes
3	Filling range	5-20grams adjustable
4	Filling accuracy	±0.05g ~ ±0.1g
5	Voltage	220V/380, 60/50HZ, Customizable
6	Air pressure / gas consumption	≥0.8Mpa / 0.1m³
7	Hopper capacity	1.0L (2.5L) option-110L
8	Machine size	L 5000mm* W1000mm* H2600mm
9	Weight	1000kg
10	Control system	PLC + 7 inch Touch screen

HSPT-Serial New Technology K-cup Machine With Auto Filter Welding

Brief Instruction:

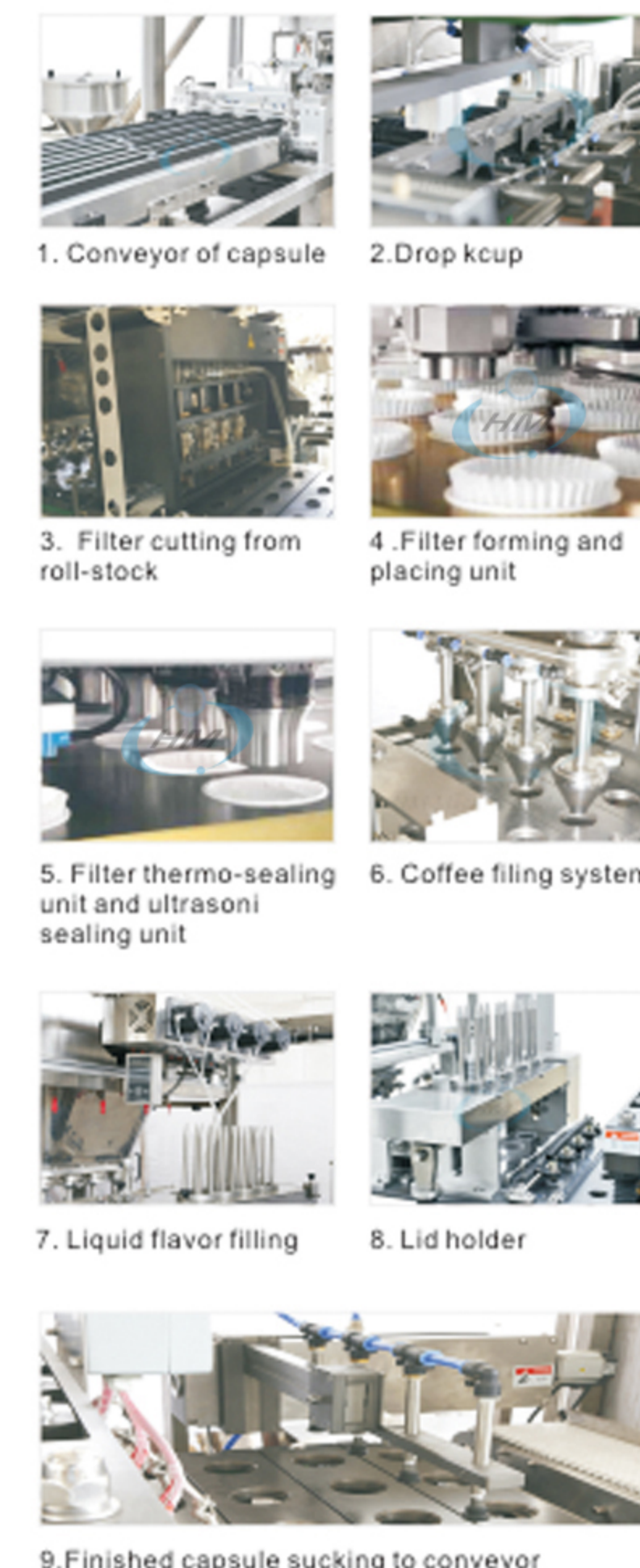
HSPT model k cup machine can pack drip coffee capsules placing into the capsules plastic inserts as well as a deep drawn pleated paper filter from roll-stock.

HSPT k cup with filter welding coffee machine is reliable and cost effective option, The drip coffee capsule filling and sealing machine can also provide automatic Deep drawing pleated filter and Kcup Filter thermo-sealing unit and Ultrasoni sealing machine.



Main Working Process :

- ☆Special Loading Lanes for empty k Cups
- ☆Automatic drop empty kcup to machine
- ☆Automatic detect whether Kcup well loaded on the machine by sensor.
- ☆Auto Feed the filter paper roll on the machine
- ☆Auto Filter cutting/transferring and sealing unit
- ☆Automatic detect whether the filter insert into kcup or not, if no filter, machine will not filling coffee and not sealing and then reject the empty kcup to collecting box.
- ☆Automatic Nitrogen flush
- ☆Servo motor to fill coffee while vibrating, weight around 5-20g (can be adjust), while filling and Nitrogen flush.
- ☆Automatic Nitrogen flush
- ☆Auto suck Foil Lids.
- ☆Auto detect whether the foil lids is ready by sensor (if no lids, will no sealing)
- ☆Auto Seal twice
- ☆Automatic mechanical grasp the finished product to conveyor (connect to the conveyor)



Technical Parameter:

NO.	Model	HSP-2	HSP-4	HSP-6	HSP-8
1	Speed	60Cups/minute	120 Cups/minute	180Cups/minute	240Cups/minute
2	Working station	2lanes	4lanes	6lanes	6lanes
3	Filling range	0-20grams	0-20grams	0-20grams	0-20grams
4	Filling accuracy	±0.05g ~ ±0.1g	±0.05g ~ ±0.1g	±0.05g ~ ±0.1g	±0.05g ~ ±0.1g
5	Voltage	220V/380, 60/50HZ, Customizable	220V/380, 60/50HZ, Customizable	220V/380, 60/50HZ, Customizable	220V/380, 60/50HZ, Customizable
6	Air pressure / gas consumption	≥0.8Mpa/0.1m ²	≥0.8Mpa/0.1m ²	≥0.8Mpa/0.1m ²	≥0.8Mpa/0.1m ²
7	Working Temperature	5-35°C	5-35°C	5-35°C	5-35°C
8	Machine size	L 4800mm* W2000mm* H2550mm	L 4800mm* W2500mm* H2550mm	L 5000mm* W2700mm* H2550mm	L 5000mm* W2900mm* H2550mm

Nespresso Filling Sealing Machine

Brief Instruction:

HSP model nespresso filling machine is able to produce a wide variety of espresso capsule with lid in modified atmosphere, the machine can handle both stackable and bulk capsules, inserting plastic or paper filter and sealing different material as top lids such as pre-cut lids, roll filter paper. The Nespresso packing machine is able to dose a wide of products such as:coffee, tea, soluble products and can be equipped with an aroma doser for liquid flavors.

Main Function:

- 1-Automatically accomplish all production process, small volume, operate easily.
- 2-PLC control system and full display and real-time monitoring
- 3-Automatically load capsule/ cup to machine
- 4-Automatically vacuum suck and transport coffee/powder material
- 5-Servo control auger filling.
- 6-Filling liquid system (various flavor)
- 7-Automatically clean capsule rim remaining powder
- 8-UV germicidal lamp (option)
- 9-Automatically suck and place lid.
- 10-Filling nitrogen system, nitrogen flush process from empty capsule to heat seal station.
- 11-Automatically heat seal, line seal and flat seal.
- 12-Automatically output finished products.
- 13-Automatically reject unqualified product.
- 14-Automatically count capsule quantity on conveyor belt: sensor detect empty cups loading position, no cup and alarm.
- 15-No cup no filling, no sealing, if empty cup on the mould, will automatically start reject function for recycle use.
- 16-Automatically detect lids quantity, below a cert position, alarm and inform add lids.
- 17-Machine adopts food standard stainless steel . organic glass door design, beautiful appearance, high safety.
- 18-Automatically count finished products.
- 19-Failure tips display on the touch screen.



1. Capsule feeding system



2. Coffee dosing + Nitrogen flushing unit



3. Lid holder



4. Exit to conveyor belt

Technical Parameter:

NO.	Model	HSP-1/2/4/6/8
1	Speed	30/ 60/120/180/240 capsule per minute
2	Working station	1/2/4/6/8 lanes
3	Filling range	0-20grams
4	Filling accuracy	±0.05g ~ ±0.1g
5	Voltage	220V/380, 60/50HZ, Customizable
6	Air pressure / gas consumption	≥0.8Mpa/0.1m ²
7	Working Temperature	5-35°C
8	Relative humidity	≤85%
9	Machine size	L 5000mm* W1000mm* H2600mm



HSP-Serial Dolce Gusto Filling Sealing Machine

Brief Instruction:

HSP Serial Dolce gusto filling and sealing machine is the Newest design machine used for Dolce gusto filling.

With high speed and high quality meet EURO machine standard, this model Dolce gusto packing machine is design specially for Nescafe dolce gusto filling machine The components of machine use top brand in the world. So it is easy to find your local agent for the Dolce gusto making machine.

The whole material of the machine is Stainless steel frame; Organic glass; Four columns mould structure; Fixed castor and Mobile pulley.

Main Working Process:

- ☆ Empty dolce gusto capsules feeding system.
- ☆ Automatic drop empty capsules to machine (the bottom of capsules samples was already sealed)
- ☆ Automatic detect whether dolce gusto capsule well loaded on the machine by sensor.
- ☆ Filling Nitrogen into capsule.
- ☆ Servo motor to fill coffee while vibrating, weight around 5-20g (can be adjust), also second time filling Nitrogen into capsule.
- ☆ Filling dolce gusto pods flavours.
- ☆ Sealing paper filter from roll on inner body of capsules.
- ☆ Auto cutting paper from roll and seal on the top of capsule
- ☆ Auto Seal on the top of capsules second times.
- ☆ Automatic exit to transport the finished dolce gusto to conveyor

Technical Parameter:

NO.	Model	HSP-1/2/4/6/8
1	Speed	30/60/120/180/240 capsules/minute
2	Working station	1/2/4/6/8 lanes
3	Filling range	5-20grams
4	Filling accuracy	±0.05g ~ ±0.1g
5	Voltage	220V/380, 60/50HZ, Customizable
6	Air pressure / gas consumption	≥0.8Mpa/0.1m ²
9	Machine size	L 5100mm* W1200mm* H2500mm



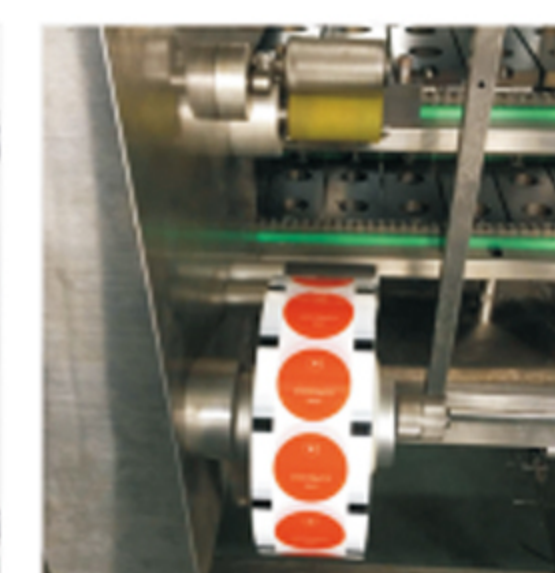
1. Sealing inside



2. Cutting



3. Coffee filling



4. Top sealing



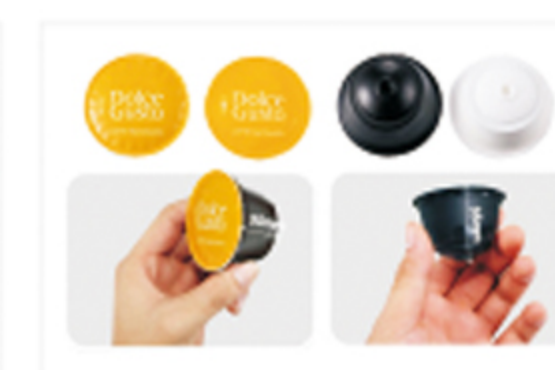
5. Output



Finished product



Finished product



Finished product

HSP- Serial Lavazza Point & Lavazza Blue Filling Sealing Machine

Brief Instruction:

HSP Serial filling machine (used for Lavazza point and Lavazza blue filling and sealing) is the latest Version Lavazza filling sealing machine.

This model machine proves its flexibility being able to get upgraded in speed on the field, from 1-8 production lanes, and fitting different capsule styles on the same machine, with an easy size changeover between the different formats.

Advantage:

- ☆Extremely precise dosing unit to assure correct product weight.
- ☆Easy cleaning and product change, even between coffee and soluble powder.
- ☆Possibility to handle different capsule styles with easy size changeover.
- ☆Aroma doser to drop liquid flavor into the capsules
- ☆Upgradable in speed , even on field.
- ☆Possible tailor-made solutions according to capsule configuration.
- ☆Minimal maintenance requirement.

Working Process:

- ☆Lavazza capsules feeding unit .
- ☆Automatic drop empty Lavazza to machine.
- ☆Auto detect Lavazza well loaded on the machine.
- ☆Auto Feed the roll-stock paper on the machine.
- ☆Auto cut filter paper from roll paper and welded into inside bottom of Lavazza.
- ☆Automatic Nitrogen flush.
- ☆Servo motor to fill coffee weight around 5-20g (can be adjusted), while filling and Nitrogen flush.
- ☆Automatic Nitrogen flush.
- ☆Auto cut filter paper from roll paper and sealing on the top of Lavazza Point.
- ☆Auto Seal twice.
- ☆Automatic finished product exit unit to conveyor belt.



NO.	Model	HSP-1/2/4/6/8
1	Capacity	30/60/120/180/240Cups/minute
2	Working station	1/2/4/6/8 lanes
3	Filling range	5-20grams adjustable
4	Filling accuracy	±0.05g ~ ±0.1g
5	Voltage	220V/380, 60/50HZ, Customizable



1.First sealing at bottom inside



2.Cutting



3. Sealing top



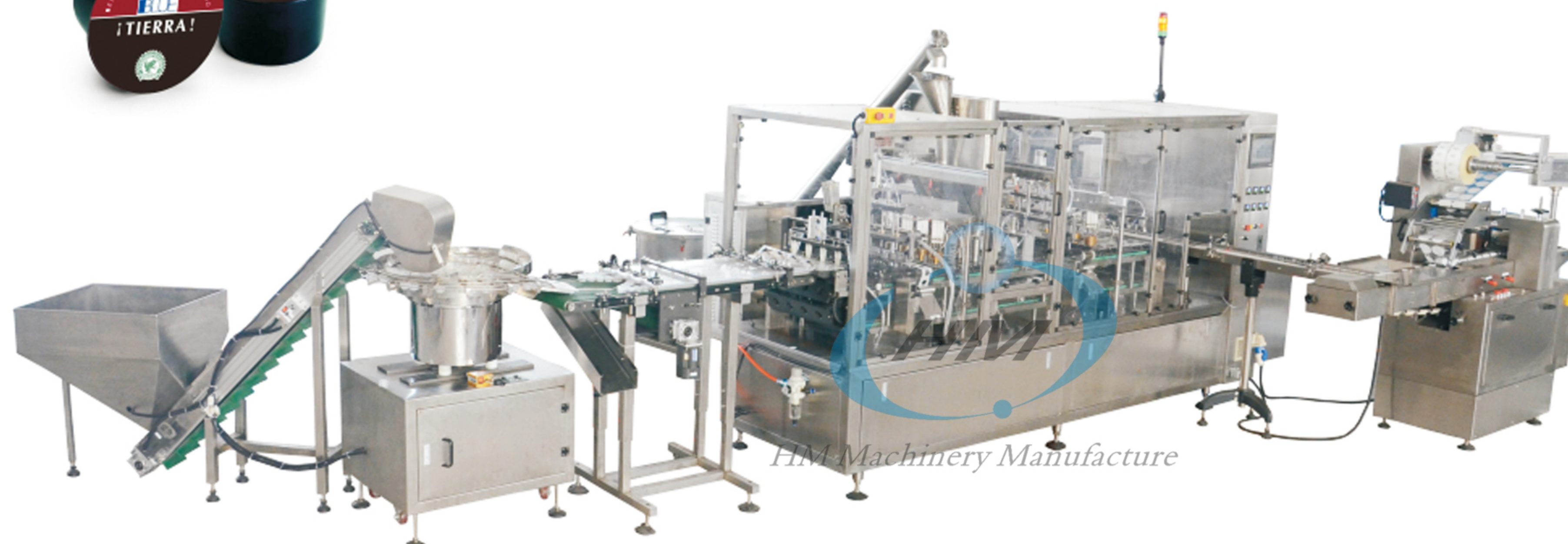
4. UV sterilization



5. Coffee filling



6. Output



HSP-Serial Pod Coffee Making Machine

Main Working Process For Pod:



1. Bottom film holer



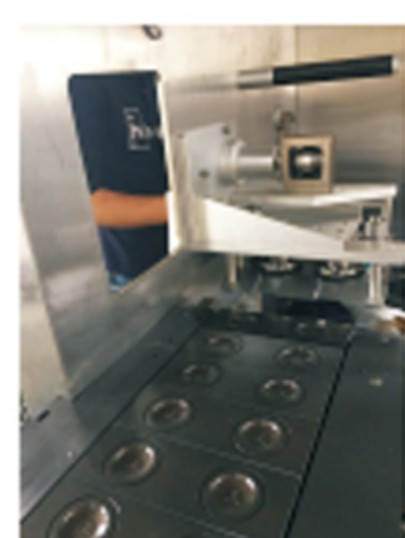
2. Pod coffee filling



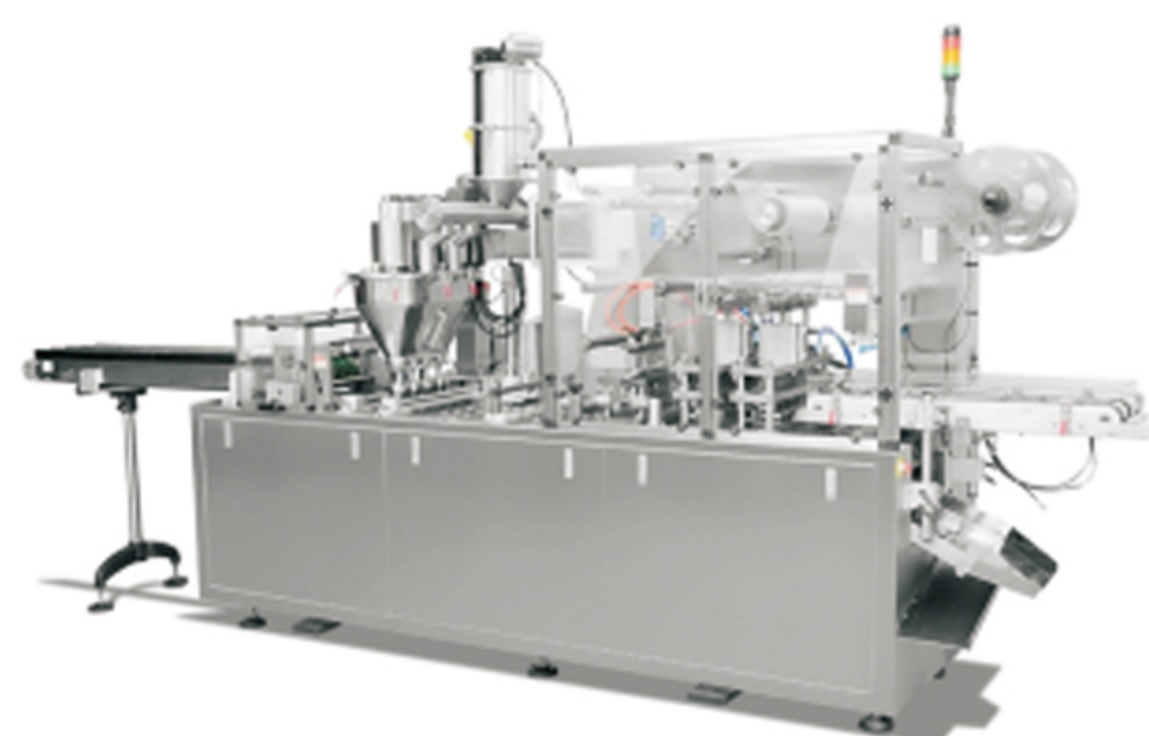
3. Top film holding system



4. Sealing



5. Mould plate for forming pod shape



Technical Parameter:

NO.	Model	HSP-1/2/4/6/8
1	Speed	30/60/120/180/240 capsule per minute
2	Working station	1/2/4/6/8lanes
3	Filling range	0-20grams
4	Filling accuracy	±0.05g ~ ±0.1g
5	Voltage	220V/380, 60/50HZ, Customizable
6	Air pressure / gas consumption	≥0.8Mpa/0.1m ²
7	Working temperature	5-35°C
8	Relative humidity	≤85%
9	Machine size	L 4500mm* W1000mm* H2400mm

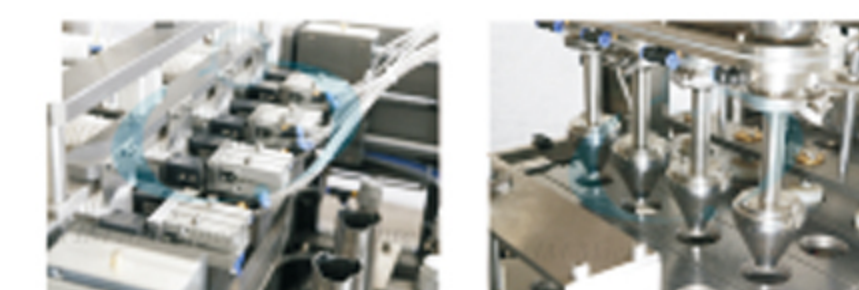


HSP- Serial Upshot Coffee Filling Sealing Machine



Main Working Process:

- ☆Special Feeding unit for capsules.
- ☆Automatic drop empty upshot to machine.
- ☆Automatic detect Upshot on the machine by sensor.
- ☆Servo motor to fill coffee around 5-20g (adjustable).
- ☆Automatic clean the edge of k-shot (vacuum clean)
- ☆Automatic cutting from Roll film and sealing it.
- ☆Automatic exit unit.



1. Capsule feeding unit 2. Coffee filling unit



3. Top sealing 4. Exit unit

Technical Parameter:

NO.	Model	HSP 1/2/4/6/8
1	Speed	30/60/120/180/240 Cups/minute
2	Working station	1/2/4/6/8 lanes
3	Filling range	0-20grams
4	Filling accuracy	±0.05g ~ ±0.1g
5	Voltage	220V/380, 60/50HZ, Customizable
6	Air pressure / gas consumption	≥0.8Mpa/0.1m ²

HSP-1R/ 1N/ 1L Capsule Filling Sealing Machine

Brief Introduce :

HSP model is full automatic coffee capsule filling and sealing machine with 25-30 CPM. Rotary type Coffee Capsule Filling machine is very easy and convenient to operation, small foot print perfect for space limited production area. Heavy duty constructed, stainless steel surface, extremely reliable. HSP model Rotary and Single lane machine are able to fill and seal different type of k cup, Nespresso, Dolce gusto, Lavazza point, Lavazza blue, Upshot, Coffee pods. coffee maker machine with Servo driver, auger filler suitable for various of powder products: coffee, tea, hot chocolate etc in K-cup.

Standard Functions :

- ☆Automatically accomplish all production process, small volume, operate easily.
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- ☆PLC control system and full display and rea-time monitoring
- ☆Automatically load capsule/ cup to machine
- ☆Servo control auger filling.
- ☆Automatically clean capsule rim remaining powder
- ☆Automatically scuk and place lid (or cutting from roll film and sealing)
- ☆Filling nitrogen system, nitrogen flush process from empty capsule to heat seal station.
- ☆Automatically heat seal, line seal and flat seal.
- ☆Automatically output finished products.
- ☆No cup no filling, no sealing,
- ☆Automatically detect lids quantity, below a cert position, alarm and inform add lids.
- ☆Machine adopts food standard stainless steel,organic glass door design, beautiful appearance, high safety.



HSP-1N



HSP-1R



HSP-1L

Technical Parameter:

NO.	Model	HSP-1N	HSP-1R	HSP-1L
1	Speed	3000-3500Cups/hour	1800-2000Cups/hour	1800-2000Cups/hour
2	Working station	1 station	1 station	1 station
3	Filling range	5-20grams (adjustable)	5-20grams	5-20grams
4	Filling accuracy	±0.05g ~ ±0.1g	±0.05g ~ ±0.1g	±0.05g ~ ±0.1g
5	Voltage	220V/380, 60/50HZ, 2.5KW	220V/380, 60/50HZ, 1.2KW	220V/380, 60/50HZ, 2.0KW
6	Air pressure gas consumption	≥0.8Mpa/0.1m ²	≥0.8Mpa/0.1m ²	≥0.8Mpa/0.1m ²
7	Sealing foil	Pre-cut lid or Roll foil film (optional)	Pre-cut lid or Roll foil film (optional)	Pre-cut lid or Roll foil film (optional)
8	Machine size	1950mm (length) X1750mm (width) X2200mm (height)	1350mm (length) X1250mm (width) X2200mm (height)	2035mm (length) X650mm (width) X1980mm (height)
9	weight	710kg	600kg	580kg



1.Touch screen



2. Drop capsule and capsule detected



3. Nitrogen flush



4. Nitrogen protection



5. Vacuum coffee loading



6.Coffee dosing device



7. Sealing



8. Finished product output

Automatic Kcup Carton Production Line

Instruction:

The K cup carton packing production line from Automatic feed empty K-cup, filling coffee and sealing it, then transport the finished kcup to the carton packing machine, automatic pack in carton.

Main Working Process:

- ☆ Capsule feeding system
- ☆ Automatic drop empty capsules to machine
- ☆ Dosing system: Servo motor to fill coffee
- ☆ Product compacting and capsule rim cleaning unit
- ☆ Auto Lid sealing unit
- ☆ Transport the sealed Kcup to the carton Packing Machine
- ☆ Automatic carton packing



Technical Parameter:

NO.	Speed (Adjustable)	20-30box per minute
1	Qty of kcup per box	18 cups/16cups/ 12cups/10cups
2	Carton size	Adjustable, according to the number of Kcup
3	Paper of box	400g/m3
4	Power source	AC 220V 50Hz single phase
5	Size (L*W*H)	L7300*W6100*H1700



Nespresso Capsule Coffee Production Line

Instruction:

Nespresso packing machine is full production line from empty Nespresso filling and sealing then use Nespresso packing machine to pack in carton or pack nespresso in bag.

Main Working Process:

- ☆ Capsule storage tank
- ☆ Lifting conveyor to feeding capsule
- ☆ Automatic capsule sorting system to conveyor to the filling machine.
- ☆ Automatic drop capsule into the machine
- ☆ Servo motor to fill coffee while vibrating, (weight can be adjust)
- ☆ Auto Roll film cutting and sealing.
- ☆ Auto Seal twice
- ☆ Auto conveyor the finished capsule to Bag Packing machine, counting and packing.
- ☆ Auto drop onto conveyor belt after bag sealing .
- ☆ Auto transport to the carton packing machine or bag packing

Technical Parameter:

NO.	Speed	20-100 carton (bag) / minute
1	Voltage	220V/380, 60/50HZ, Customizable
2	Machine size	L 7500mm* W1000mm* H2600mm



Lavazza Coffee Capsule Production Line

HM Machinery Group can supply a complete turn-key system starting from coffee capsule filling and sealing, secondary packing up to end of line.

Technical Parameter:

NO.	Speed (Adjustable)	20-30packages per minute
1	Qty of capsule per bag	1capsules/5capsules/ 10capsules
2	Bag size	Adjustable, according to the qty of capsules
3	Power source	Customization



Coffee dosing +
Nitrogen flushing unit



Exit to conveyor belt



Conveyor transport
to bag packing machine



Finished product



Carton Packing Line

Optional Supporting Equipment:

1. Automatic Capsule Sorting Device



Rotary Barrel Capsule Sorting



VibrateType Capsule Sorting Device

2. Packing Equipment



Carton Packing Machine



Vibrate Type Capsule Sorting Device

3. Remote Diagnosis System



Empty Capsules :

K CUP



HM-KP



HM-KS

Upshot / K-shot



HM-US



HM-US

Nespresso



HM-NL



HM-NP

Lavazza Blue



HM-LB



HM-LB

Dolce Gusto



HM-DC



HM-DG

Lavazza point



HM-LP



HM-LP