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# HSP-2,4,6 High Speed Nespresso Coffee Filling and Sealing Machine



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## **Brief Instruction:**

HSP Coffee Capsule Filling Sealing Machine use for Nespresso capsule is the latest Version Machine, High speed and high quality meet EURO machine standard, this model machine is design specially for Nespresso coffee Filling and Sealing. Its material use is better than previous machines; Components use top brand.

- \* The whole machine stainless steel frame; Organic glass; Four columns mould structure; Fixed castor and mobile pulley.
- \* Photoelectric detection the location of cup storage , If the cup storage is not enough, machine will alarm to feed capsules. and machine will automatic stop without capsules,
- \* The Sensor will detect the Two or four lanes capsules, if one mould without capsules, this part mould will not filling coffee, and the capsule will be rejected automatic, other three lanes with capsules work in normal.
- \* Coffee servo screw filling, the filling volume can be adjusted on Touch screen, no cup no filling, lack of coffee in hopper, vacuum feeder automatically open to feed coffee into the hopper of machine..
- \* Liquid Filling system. (additional) for fill different flavor into coffee.
- \* Automatic clean the edge of kcup ( vacuum clean)
- \* Automatic vacuum suck lids, No cup no Lids suck. Lids suck fault , machine automatic stop.
- \* Auto Lids Sealing, Omron temperature controller to adjust the temperature.
- \* Automatic mechanical grasp the cup to the conveyor belt. Substandard coffee cup does not grasp and fall into the collection of waste bucket .

## **Main Working Process:**

- ☆ Special Loading Lanes for capsules
- ☆ Automatic drop empty capsules to machine
- ☆ Automatic detect whether Nespresso capsule well loaded on the machine by sensor.
- ☆ Servo motor to fill coffee while vibrating, weight around 5-20g ( can be adjust),
- \* Automatic clean the edge of kcup ( vacuum clean)
- ☆ Auto suck Foil Lids.
- ☆ Auto detect whether the foil lids is ready by Sensor
- ☆ Auto Seal lids,



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☆ Automatic mechanical grasp the finished product to conveyor ( connect to the conveyor)

### **Technical Parameter:**

NO.	Model	HSP-6	HSP-4	HSP-2
1	Speed	12600-14000 Cups/hour	8500-9600 Cups/hour	4500-4800 Cups/hour
2	Working station	6lanes	4lanes	2lanes
3	Filling range	0-20grams	0-20grams	
4	Filling accuracy	±1.5%	±1.5%	
5	Voltage	Three Phase 220V- 240V 60HZ / 7KW	Three Phase 220V- 240V 60HZ / 7KW	
6	Air pressure / gas consumption	≥0.8Mpa / 0.1m <sup>2</sup>	≥0.8Mpa / 0.1m <sup>2</sup>	
7	Working Temperature	5-35°C	5-35°C	
8	Relative humidity	≤85%	≤85%	
9	Machine size	L 5000mm* W1200mm* H2600mm	L 5000mm* W1000mm* H2600mm	L 5000mm* W900mm* H2600mm

### **Configuration List:**

No.	Name	Qty	Brand	Origin
1	PLC	1	OMRON	Japan
2	Motion Control Module	1	OMRON	Japan
3	Extended Module	1	OMRON	Japan
4	Transducer	1	OMRON	Japan



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5	Switching Power	1	OMRON	Japan
6	Temperature Controller	8	OMRON	Japan
7	Solid-state Relay	8	OMRON	Japan
8	Touch Screen	1	OMRON	Japan
9	Encoder	1	OMRON	Japan
10	Switching Power	1	OMRON	Japan
11	Transducer	1	OMRON	Japan
12	Servo Drivers	7	OMRON	Japan
13	Servo Motor	7	OMRON	Japan
14	Proximity Transducer	8	OMRON	Japan
15	Photoelectric Sensor	12	OMRON	Japan
16	Motor Reducer	1	LIMING	Taiwan
17	Breaker	1	Schneider	France
18	Breaker	2	Schneider	France
19	Breaker	5	Schneider	France
20	Breaker	1	Schneider	France
21	Midget Relay	12	IDEC	Japan
22	Signal Light	1	PATLITE	Japan
23	Load Switch/Operating Handles	1	EATON	Germany
24	Emergency Stop Switch	2	EATON	Germany
25	Button Switch	2	EATON	Germany



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26	Button Switch	2	EATON	Germany
27	Button Switch	2	EATON	Germany
28	Solenoid Valve	18	SMC	Japan
29	Vacuum Generator	4	SMC	Japan
30	Vacuum sucking disc	2	SMC	Japan
31	Filter reducing valve	1	SMC	Japan
32	Cylinder	3	SMC	Japan
33	Rodless Cylinder	2	PARKER	Germany

### Machine Detailed Show:

#### 1. drop capsule system :



#### 2. Coffee Filling System:





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### 3.Clean system for clean the edge of kcup



### 4. Lids Holing and sucking system:



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### 5. Auto Grasp The Finished Nespresso to Conveyor:



### 6. Whole Machine Picture:





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**Finished Nespresso Capsules:**





**Option:**

1. Connect with Bag Packing Machine(1/4/8 pcs Nespresso per bag)
2. Connect with Carton Packing Machine( 4/ 8/ 18/ 24 pcs bags per carton)
3. Vacuum Coffee Loader (lifting coffee from the tank on the ground to the hopper of machine )
4. Liquid Filling system (for fill different flavor into coffee.)