

## AUTOMATIC ROTARY CUP FILLING MACHINE



| TECHNICAL DATA                   |                                                                                                                                                      |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Model No                      | :SPS-RCL-DT-2500                                                                                                                                     |
| 2.Type                           | : Rotary, Mechanical electric motor driven (1 Hp)                                                                                                    |
| 3. Pack size                     | : 50ml to 50ml                                                                                                                                       |
| 4. Productive rate               | : 2500 cups per hour.                                                                                                                                |
| 5. Cup size                      | : 70 to 90 mm                                                                                                                                        |
| 6. Pack size change Over system  | : Provision had made in the machine to handle different size of cups by repositioning a few components and also by replacing the cup & lid adopters. |
| 7. No. of tracks                 | :Twin                                                                                                                                                |
| 8. Drive / operation             | : Mechanical motor driven indexing system with pneumatically operated devices.                                                                       |
| 9. Filling system                | : Pneumatically time based filling system.                                                                                                           |
| 10. Sealing                      | : Temperature controlled continuous sealing system.                                                                                                  |
| 11. Cup Regulation system        | : Pneumatically operated cup regulation system with vacuum draw.                                                                                     |
| 12. Lid Placement                | : Pneumatically controlled lid regulation system. with vacuum holding.                                                                               |
| 13. Cup ejection                 | : Pneumatically operated cup ejection system.                                                                                                        |
| 14. Cup Discharge                | : Pneumatically operated Dragger system.                                                                                                             |
| 15. Rotary table indexing system | : Cam indexing system with Bonfiglioli geared motor to have 6 indexing per revolution.                                                               |
| 16. Control system               | : P.L.C & Touch Screen Board 24 VDC                                                                                                                  |
| 17. Pack selection               | : A separate selector switch have provided for different size of packs like 50,100,200,400 & 500 ml                                                  |
| 18. Vacuum generation system     | : Pneumatic                                                                                                                                          |
| 19. Pneumatic working pressure   | : 6Kg/cm2                                                                                                                                            |
| 20. Compressor capacity          | : 7.5 HP                                                                                                                                             |
| 21. Power supply                 | : 3 phase 440V.AC. Control circuit 24 VDC                                                                                                            |
| 22. Power consumption            | : 2.0 KW                                                                                                                                             |
| 23. Material of construction     | : Aluminum / Stainless Steel components with SS steel metal outer body. Product contact parts are in SS 304 quantity material.                       |
| 24. Finish                       | : All parts other than SS will be powder coated.                                                                                                     |
| 25. Overall size                 | : 1100 WX 1250 DX 2150 H                                                                                                                             |
| 26. Weight                       | : 500 Kgs.                                                                                                                                           |

### FUNCTIONAL DEACRIPTION

This machine is designed to fill and seal liquid products like Milk/ Curd/lcecream etc., hi heat sealable cylinder cups. Pre-formed cups and lids should be kept (stack) at their respective places and the product line should be connected to the float balanced tank provided on the machine. Service lines like compressed air, electric supply etc., Should also be connected to the machine. Complete function of the machine are automatic since the sequence of operation, functions and the logics are programmed in the PLC. This machine have 2 operation modes like Manual and Auto. In Auto mode the complete machine works automatically (without any interruption) where as in Manual mode the machine works according to the function such as cup transportation, filling, lid placement, sealing, ejection and cup drag works independently through individual switches. The machine can run in either mode for regular production. Track selection is automatic because of the following safety devices.

### OTHER FEATURES

1. Quick adjustment for pack change over.
2. Bought out items like Electrical items, Pneumatics, PLC, Electrical & Electronic items etc.,are of high quality / reputed make like Festo, Alien Bradley, L & T, Siemens etc.

- \* No cup - no fill
- \* No fill - no lid
- \* No lid - no seal
- \* No seal (but filled) - no ejection
- \* No product - no start
- \* Low sealing temperature - no start
- \* Low air pressure machine stops
- \* No ejection machine stops
- \* Low product level machines stop
- \* Automatic display of faults with alarm

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- All Types Of Powder Packing Machines
- All Types Of Granules Packing Machines

# STANDARD PACKAGING SYSTEMS

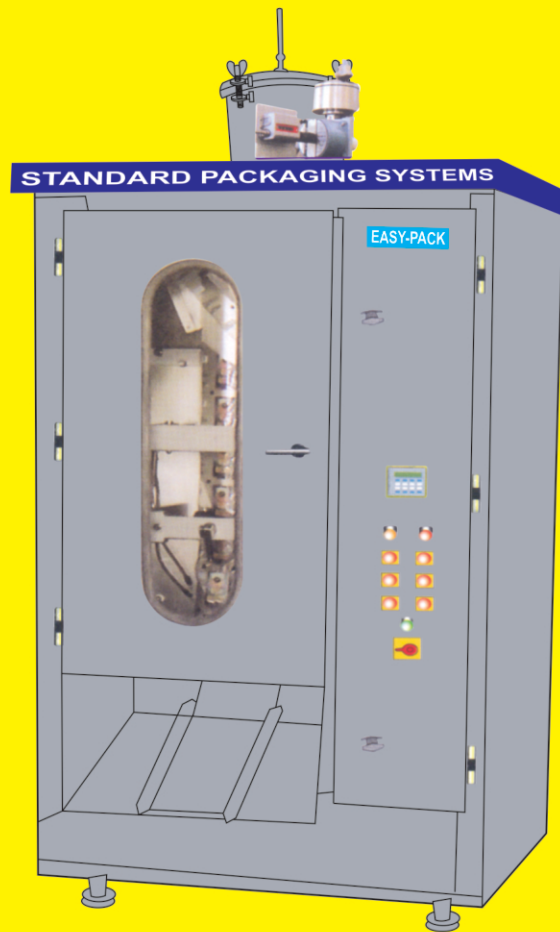
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### NORMAL SPEED DOUBLE HEAD MACHINE



### NORMAL SPEED SINGAL HEAD MACHINE



### TECHNICAL DATA

| SI. No. | DESCRIPTION                            | SINGAL HEAD<br>NORMAL SPEED<br>SPS-MI 3000 | DOUBLE HEAD<br>NORMAL SPEED<br>SPS-MII 6000 | DOUBLE HEAD<br>HIGH SPEED<br>SPS-MII-HS-10000 |
|---------|----------------------------------------|--------------------------------------------|---------------------------------------------|-----------------------------------------------|
| 1.      | Width ( mm )                           | 1200                                       | 1750                                        | 1750                                          |
| 2.      | Depth ( mm )                           | 900                                        | 900                                         | 850                                           |
| 3.      | Height ( mm )                          | 2800                                       | 2800                                        | 2800                                          |
| 4.      | Weight ( Kgs )                         | 550                                        | 850                                         | 850                                           |
| 5.      | Drive (Each Head)                      | 1HP                                        | 1HP                                         | 1HP                                           |
| 6.      | Peak power (KVA)                       | 3                                          | 6                                           | 6                                             |
| 7.      | Power consumption (Kw /hr)             | 2                                          | 4                                           | 4                                             |
| 8.      | Power Input per head                   | 3 PH, 16A                                  | 3 PH, 16A                                   | 3 PH, 16 A                                    |
| 9.      | Cooling water at 4 c (Litres Per Hour) | 100                                        | 150                                         | 150                                           |
| 10.     | Sealing system                         | impulse                                    | impulse                                     | Impulse                                       |
| 11.     | Production rate (Pouches Per Hour)     | 2500                                       | 5000                                        | 10000                                         |
| 12.     | Filling range ( ml )                   | 200 to 1000                                | 200 to 1000                                 | 200 to 1000                                   |
| 13.     | Pouch width ( mm )                     | 150                                        | 150                                         | 150                                           |
| 14.     | Min & Max pouch length ( mm )          | 60 to 240                                  | 60 to 240                                   | 60 to 240                                     |
| 15.     | Film width ( mm )                      | 325                                        | 325                                         | 325                                           |
| 16.     | Film type                              | LDPE                                       | LDPE                                        | LDPE                                          |
| 17.     | Film roll maximum diameter ( mm )      | 300                                        | 300                                         | 300                                           |
| 18.     | Film roll core / bore ( mm )           | 75                                         | 75                                          | 75                                            |
| 19.     | Control syatem ( 24 VDC )              | PLC                                        | PLC                                         | PLC                                           |

### NORMAL SPEED GHEE PACKING MACHINE



#### OPTIONAL ACCESSORIES

1. Photo cell / Print mark scanner.
2. Date / Batch coder.

### HIGH SPEED AFFS OIL PACKING MACHINE



### Technical data

| Sl. No. | DESCRIPTION                            | MODELS                        |                                |
|---------|----------------------------------------|-------------------------------|--------------------------------|
|         |                                        | SINGLE HEAD                   | DOUBLE HEAD                    |
|         |                                        | SPS-MI-G-1200<br>Normal Speed | SPS-MII-G-2400<br>Normal Speed |
| 1.      | Width (mm)                             | 1150                          | 2050                           |
| 2.      | Depth (mm)                             | 900                           | 900                            |
| 3.      | Height (mm)                            | 2800                          | 2800                           |
| 4.      | Weight (Kgs)                           | 600                           | 1100                           |
| 5.      | Drive (Each Head)                      | 1HP - 1No.                    | 1HP - 2Nos.                    |
| 6.      | Peak Power (KVA)                       | 6                             | 12                             |
| 7.      | Power Consumption (Kw / hr)            | 3                             | 6                              |
| 8.      | Power Input per head                   | 3 PH, 16A                     | 3 PH, 32A                      |
| 9.      | Cooling water at 10-15 C (Litres Hour) | 100                           | 150                            |
| 10.     | Sealing system                         | impulse                       | impulse                        |
| 11.     | Production rate (Pouches Per Hour)     | 900 - 1200                    | 1800 - 2400                    |
| 12.     | Filling range (ml)                     | 200 to 1000                   | 200 to 1000                    |
| 13.     | Pouch width (mm)                       | 150                           | 150                            |
| 14.     | Min & Max pouch length (mm)            | 80 to 245                     | 80 to 245                      |
| 15.     | Film width (mm)                        | 325                           | 330                            |
| 16.     | Film type                              | 3 and 5 Layer                 | 3 and 5 Layer                  |
| 17.     | Film roll maximum diameter (mm)        | 300                           | 325                            |
| 18.     | Film roll core / bore (mm)             | 75                            | 75                             |
| 19.     | Control system (24 VDC)                | P.L.C                         | P.L.C                          |

### Technical data

| S.No. | Description                         | Remark                                             |
|-------|-------------------------------------|----------------------------------------------------|
| 01.   | Machine Model No (for Single head)  | SPS-HS-2000                                        |
| 02.   | Main drive                          | 1.5KW servo motor and drive-1 No                   |
| 03.   | Pouch pull drive (Nip roller drive) | 400 Watts servo motor & drive-1 No                 |
| 04.   | Film reel unwinding                 | 400 Watts A/C motor & drive-1 No                   |
| 05.   | Max. Film roll outer dia            | 350mm                                              |
| 06.   | Film reel bore dia                  | 76mm                                               |
| 07.   | Type of film                        | 5 layers/3 layers/laminated                        |
| 08.   | Film width                          | 324 +2mm                                           |
| 09.   | Vertical seal                       | 4mm band seal (side or Center seal)                |
| 10.   | Horizontal seal                     | 3mm band on either end                             |
| 11.   | Pouch parting (end seal)            | With round electrode                               |
| 12.   | Filling range                       | 250, 500 & 1000ml                                  |
| 13.   | Production capacity                 | 33+/-1 pouches per minute                          |
| 14.   | Filling accuracy                    | +/- 2ml                                            |
| 15.   | Filling systems                     | Dossing pump (continuous pumping)                  |
| 16.   | Cooling system                      | Cooling water re-circulation at 5 to 7 C @ 150 LPH |
| 17.   | Power supply                        | 25 Amps, 3 Phase, 50c/s. A/C                       |
| 18.   | Connected Power load                |                                                    |
|       | a) Main drive (Servo)               | 1.5 KW-1 No                                        |
|       | b) Pouch pull (Servo)               | 0.4 KW-1 No                                        |
|       | c) Film unwinding (A/C Motor)       | 0.4 KW-1 No                                        |
|       | d) Horizontal band seal             | 6.0 KVA-1 No                                       |
|       | e) Horizontal end seal/ cutter      | 1.0 KVA-1 No                                       |
|       | f) Vertical band seal               | 1.5 KW-1 No                                        |
| 19.   | Control circuit                     | PLC & touch screen based. 24 VDC                   |
| 20.   | Electrical panel                    | Built in separate panel on RH end                  |
| 21.   | Electrical/electronic panel         | Separate panel for electrical item at LH end.      |
| 22.   | Pouch length control                | Through Eye mark or through touch screen           |
| 23.   | Main structure                      | Alluminium                                         |
| 24.   | Components                          | SS, alluminium, gun metal etc.                     |
| 25.   | Outer sheet metal body              | SS, (AISI304)                                      |
| 26.   | Product contact parts               | AISI 304 (SS)                                      |
| 27.   | Width of machine                    | 1125mm for Single head                             |
| 28.   | Depth of machine                    | 1000mm (for both)                                  |
| 29.   | Height of machine                   | 2300mm (for both)                                  |
| 30.   | Weight                              | 550Kgs for single head                             |

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