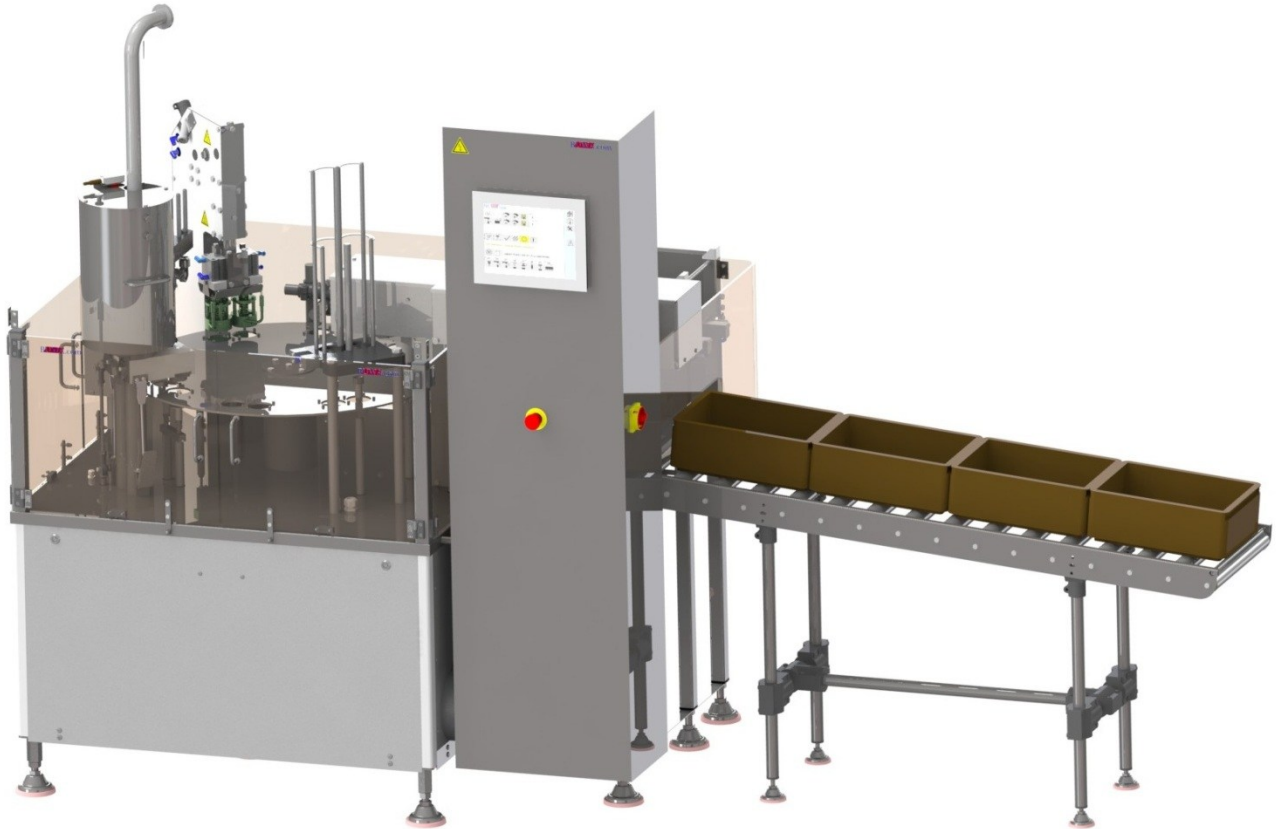


## „INPACK 2N“ Filling and sealing machine



### Drive

- Low noise even at high cycle numbers
- Mechanical transmission step
- Drive with curves, cranks
- Low maintenance due to bearing

### Electrical

- vacuum with vacuum pump
- Product choice Touch Panel
- Electronic cam controller
- Break-in extendable space travel programs
- 15 "color touch panel Siemens PLC

### Sealing

- Temperature reduction in machine stop
- Pneumatic Sealing pressure setting
- Mechanical sealing drive with curve
- Quick change head

### Dosage

- Piston dosing with rotary vane
- Motorized weight adjustment
- Ultrasonic level control
- Turning dosage for hand filling

### Hygiene cleaning

- Manual cleaning
- UVC disinfection lamp optional
- Sterile air cover optional

### Machine

- Small footprint easily accessible
- Ideal working height
- Closed bottom plate
- Good accessibility for cleaning thanks to removable windows

### Theoretical performance machines

- 4 cups per machine cycle
- 2 cups
- 1 cups
- up to 8 000 pcs / h
- up to 4 000 pcs / h
- up to 2 000 pcs / h

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## 1. Description of the machine „Inpack 2N“

The Inpack 2N - simpatic machine is extremely reliable and low maintenance thanks to the purely mechanical concept. The use of stainless steel ensures easy cleaning and durability of the machine. Simple and quick change, containers and lids of various shapes and materials can be processed with the plant.

The machine is designed for intermittent simpatic of all possible, pumpable liquid, viscous or Pasty products, with no solid material inclusion. Using the appropriate options, it can be processed so powdery or granular substances on the machine. She can work with 2 simpatic stations (POS. 2, 3) must be equipped so that 2 different fillers in the same cup can be filled.

The filling and sealing machine stands on adjustable spindle feet which the entire attachment to the desired height, as well as in the horizontal position can be set up. The casing of the plans is made of sturdy stainless steel. All drive and functional elements are placed in the machine frame. It is therefore possible for special sizes to provide the plate of the containers.

### Conception

By individual station building, the filling machines can be configured according to customer requirements

- **Compact machine with low space requirements**
- **Solid simple construction**
- **Reliable mechanical drive**

## 2. Power specifications

Theoretical power

4 Cups per cycle

up to 8 000 PCs. / h

2 Cups

up to 4 000 PCs. / h

1 Cup

up to 2 000 PCs. / h

Practical power (yogurt)

4 Cups per cycle

up to 6 000 PCs. / h

2 Cups

up to 3 000 PCs. / h

1 Cup

up to 1 500 PCs. / h

Machine stroke

infinitely adjustable

Maximum capacity

2 x 550ccm

### Cups dimensions

Cup diameter standard machine

ø73 Cup distance 76 mm

Largest ø

130 mm

Largest rectangular Cup

120 x 120 mm

Largest height of Cup

130 mm

Also possible duo Cup

### Weight

Weight

approx. 800 kg depending on model

### Connections

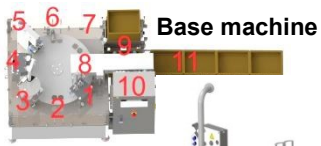
Compressed air consumption

2m<sup>3</sup> / h 6bar quality ISO 8573-3

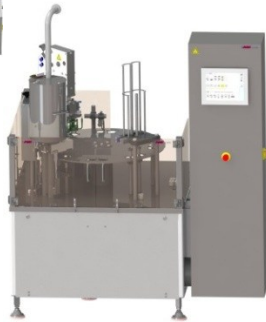
no oil operation ø12

Power connector

3 x 400 Volt, 16 ampere



**Base machine**



**Base machine**

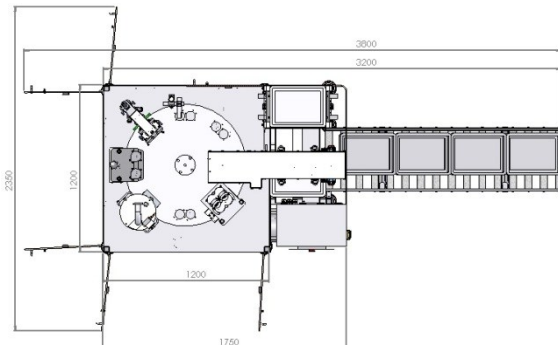
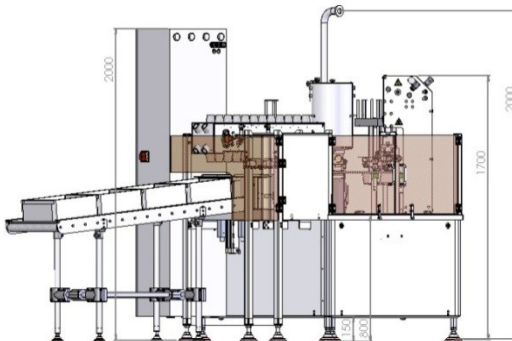
- (1) **Discharge Cup stacking**
- (2) free position
- (3) **Dosing**
- (4) **Snap- lid placement station**
- (5) **Hot sealing**
- (6) free position
- (7) free position
- (8) **Cup host**

**With Packer**



**Machine with Packer**

- (1) **Discharge Cup stacking**
- (2) free position
- (3) **Dosing**
- (4) **Snap- lid placement station**
- (5) **Hot sealing**
- (6) free position
- (7) free position
- (8) **Cup host**
- (9) **Packing**
- (10) **Control**
- (11) **Device container feeder roll tape**



**With sterile air coverage**





### 3. Discharge Cup stacking (1)



- 2 or 4 fold Cup Magazine
- Separation equipment with bucket cutter
- Vacuum generation with vacuum pump
- Fast interchangeable pump
- Cup monitoring with vacuum switch
- Fast format switching

#### Technical data

Magazine height	approx. 500 mm
Drive vacuum cups	mechanical crank drive
Cups monitor	Vacuum switch
Vacuum generation	Vacuum pump
Double scissor	pneumatically operated

From the magazine are the mug with a double shear or back restraint Jack and suction head automatically unstacked. The cups are transported to the nearest station clock at a time. Cup height up to 120 mm can be processed. Controlling the presence of the Cup, a Cup is missing is the machine stopped.

### Rotary vane dosage



Filling products

Dairy industry

Fat industry  
Fruit processing  
Food industry

Filling temperature  
Filling weight  
Metering accuracy

### 4. Dosage (2,3)



- With rotary slide piston dosing
- Automatic motorized weight adjustment
- Ultrasonic level adjustment
- Separate dosage drive
- Increase in dosing
- Weight storage in product selection

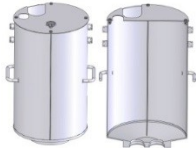
All liquid and paste products in mugs  
Yogurt, natural and stirred with fruits, buttermilk, kefir, Quark, nature and stirred with fruit, as Quark desserts  
Butter, margarine and fats mixed  
Jam and jelly  
Salads, sauces and dressing  
5 ° C to 80 ° C  
adjustable touch panel  
plus minus 0.5 grams for stirred yoghurt without fruit  
5 ° C to 80 ° C  
adjustable touch panel  
plus minus 0.5 grams for stirred yoghurt without fruit

All fluid products from thin to thick can be processed. The rotary vane filling unit is a mechanically powered and volumetric functioning system.

The dosing volume determines infinitely adjustable slide one in the inclination, whose transmission element is vertically positioned under the piston. The containers are lifted in the pass of the Pack station and lowered again during the filling. The machine can be equipped with 2 filling stations on the positions 2 and 3, so that 2 different fillers in the same cup can be filled.

The material can be supplied continuously the tank with a boiler in batch mode or by pump. In the latter case, the level with an electrical probe can be regulated. The height of the filling level in the tank has no material effect on the filling accuracy. The level differences should be kept within as narrow limits. The material is dosed by the piston. The step less regulation of capacity is done by means of electrically driven spindle

### Dosage options funnel



The funnels are made of high-alloy stainless steel. It is possible to produce the funnel in different versions.

- With dividers can be moved to two different products (only for 4-fold machines)
- simple walled funnel
- funnel heated with hot water
- Funnel cooled with ice water

### Nozzle

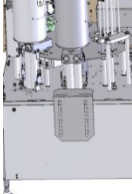


Nozzles can be adjusted depending on the product

We offer a wide range of nozzles, to achieve an optimal fill behavior for each product. All fluid products of viscous and low viscosity can be processed.

- Diving pipes
- Nozzle with pressure closure
- Form of nozzles
- Finely woven, coarsely meshed sieves with and without buck
- Nozzles can be adjusted depending on the product

### Manual filling



- Head 180 degrees can be rotated for manual filling
- To start foot switch to the fill
- Device setting height adjustable
- Decoupled dosage drive of the main motor
- Manual operation or by means of level

## 5. Snap- Lid- placement station (4,6,7)



- Aluminum, plastic and paper lids, etc.
- Mechanical turning device without garter spring
- special suction
- Lid scissors to snap on lid
- Drive with crank hub

Suction in upper position for taking then lowering and rotary motion.

Cover monitoring	Vacuum switch
Vacuum generation	Vacuum pump
Examination in the lid with	Blow-off pulse discharge weights

The lid (aluminium, PET, paper, snap on lid) are using vacuum vacuums from a storage magazine unstacked and on the Cup. Magazines need to be changed depending on the size and material of the cover. The presence of the lid is monitored, a lid is missing is the machine stopped.





#### Technical data of the seal head

Power seal head

Thermocouple

Sealing pressure

Sealing temperature

Operating pressure

Compressed air consumption

## 6. Hot sealing (5)



- Closing with aluminum, plastics and paper cover
- Pneumatic sealing pressure adjustment
- Mechanical sealing with curve
- Pneumatic unwind and activation of the hot sealing (no Cup no sealing)
- Lowering the temperature in the machine stop
- Short heat-up time
- Fast head switching

approx. 700 Watts (fast heating)

FeCu

adjustable 0-4 bar

adjustable from 20 to 350 degrees

6 bar

low

The seal heads with beading (made of high-alloy stainless steel) are heated by means of ring heaters. This allows even distribution of heat. The temperature sensors are positioned so that an optimum temperature control is achieved. The compressed air cylinders, the desired sealing pressure is set by means of pressure.

#### Dating with HP



- Contactless encoding of individual products and packaging.
- 230V control unit IP 65 protection class
- Plastics (aluminum, PVC, PET, PE, etc.)

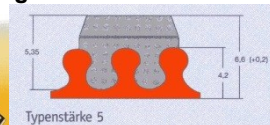
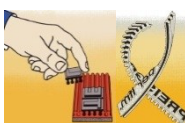
## 7. Dating station (4,6,7)



- Dating with HP cartridges
- Connect up to 4 print heads
- Low cost

- Data ports: Ethernet, RS232, USB (PC)
- STN color display HVGA 640 x 240
- Membrane keyboard with 81 keys

#### Mechanical dating



Rubber quality

Font sizes

Block types

Stamping ink

Dilution and stamping ink cleaner

- Easy and fast replacement of the printing
- Different font sizes and fonts can also be used

Oil-and acid proof

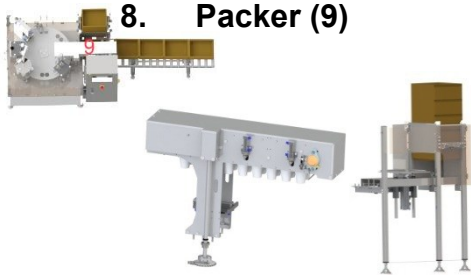
Standard C2/16 = 4 mm

Available 01 02 03 etc. or on request

Black (default), red, blue, green, Brown, violet

The printing unit for Awards is mechanically driven analog Lid station. The ink is removed from the color box.

## 8. Packer (9)



- Automatic device container feeder
- 10 and 20 containers can be processed
- Individual container (box) can be inserted by hand
- Containers storage of 3 min
- Join the Cup into the packer chain
- Controlled swim Cup

### Technical data

Cup size

ø73 ø75

Cup distance

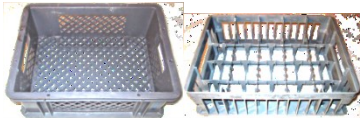
76-77

Containers

10 and 20 containers

Cardboard insert by hand

### Containers



Length

400 mm

Width

300 mm

Height

117 / 133 mm

Material

Polypropylene copolymer

Weight

approx. 950 gram

A semi-automatic from Packager is available for the machine. The filled and closed cup is combined into the Pack image of the of conveyor and the crates. The from slider lifts to the containers so far that they hook up in the brackets of the "packaging" caterpillar which is driven by the machine. The containers covered by the bracket appears gradually to harass, where they 73/75 mm automatically be released in batches from ever 2 x 10 pieces at Cup diameter.

## 9. Control (10)



- Can be selected touch panel
- Electronic programmable limit switch
- Break-in outward empty driving programs
- Intermediate rinsing
- 15 "Color touch panel Siemens PLC
- Stored in product selection data such as temperature
- Selectable via touch panel

The Inpack 2N filling machine is equipped (Siemens) control with a PLC. This practice-proven control is clear and easy to use. The control is in IP 65 protected and controls all elements required for the function of the machine. Each module can be turned off on one respectively, the working position can be determined on the control. All necessary controls are on the machine. The main switch disconnects the entire system from the power supply. The main motor inverter is located in the street your Cabinet and can be continuously adjusted from the control box in the speed. On the electrical camshaft gear control PLC are the desired power-up items as vacuum switches on.

### Pneumatics



Subject to change  
Execution 2010

- Festo products
- Fine filter
- Valves with manual trigger and lock function
- Valve Terminal
- Cut-off valve
- Pneumatic valve
- Digital vacuum switch