

# Semi-Automatic Filling and Closing Machine SD-H

for the filling of pasty products and printing inks  
into cartridges and cans



*Semi-Automatic Filling and Closing Machine SD-H*

- Three different versions available
- for the filling of:
  - cartridges with a filling volume from 100 to 500 ml, and a volume of 850 ml and 30 oz.
  - printing ink cartridges with a filling weight of 2 kg, 5 and 8 lbs.
  - cans with a filling volume of up to 3000 ml
- Pneumatic dosing unit
- Output up to 20 cartridges / minute (version 1 and 2)



- **Semi-Automatic Filling and Closing Machine SD-H:**  
Proven technology and high quality at low cost



*Filling pipe with limit switch*

- **Version 1**

For the filling of sealants and greases into plastic, fibre and aluminium cartridges with a filling volume from 100 to 500 ml.

- **Version 2**

For the filling of sealants and greases into plastic, fibre and aluminium cartridges with a filling volume from 500 to 1000 ml.

- **Version 3**

For the filling of printing inks into cans and plastic or cardboard cartridges with a filling volume from 500 to 3000 ml.

- **Working procedure (version 1 & 2)**

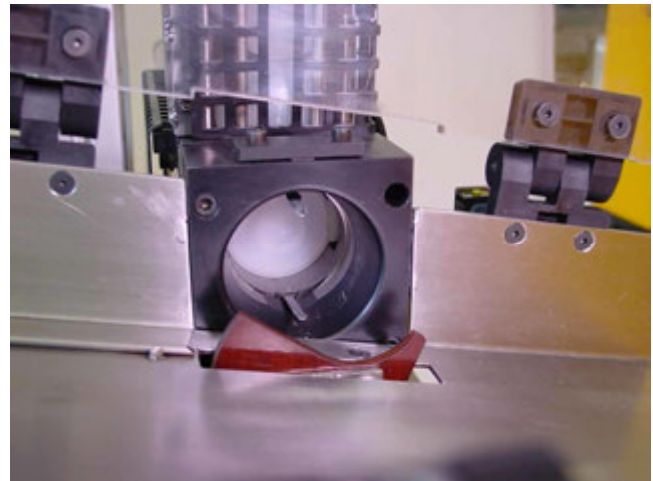
The material to be filled can be fed from a pan press (type S 2-F) or a drum press (type S 6-F). The press will feed the material into the dosing cylinder of the pneumatic dosing unit.



*Pneumatic dosing unit*

When the cylinder is filled, the operator has to push an empty cartridge over the filling pipe until the limit switch is reached. This limit switch will initiate the dosing and the cartridge is filled with material.

After filling of the cartridge, the operator has to put the cartridge into the holding device of the plunging unit.



*Plunger inserting station with venting wires*

Then the operator takes a new empty cartridge and fills it like described above. With this new dosing (i.e. when the limit switch is touched again by an empty cartridge), the plunger inserting unit will be activated automatically and set the plunger. By a special „finger“, the now plungered cartridge will be thrown out automatically and a new one can be put into the holding device of the plunging unit.

- **Working procedure (version 3)**

**Version 3** will work like the SD-M dosing unit (no separate feeding device necessary).

Placed directly to a triple roller mill, the printing ink flows from the mill directly into the receiving hopper of the SD-H. From the receiving hopper, the printing ink will be „sucked“ into the dosing cylinder via a suction pipe. As the piston rod of the dosing cylinder is fixed to the piston, a vacuum will be created by moving up the piston. The printing ink will then be sucked in.

For filling the printing ink into the container, the operator has to place the container to be filled under the filling valve. Then he can initiate the filling by a foot pedal.

The SD-H not only works in connection with a triple roller mill. It is also possible to connect the SD-H to a press and to feed the printing ink from a container or a drum.

 **Scope of supply****● Version 1**

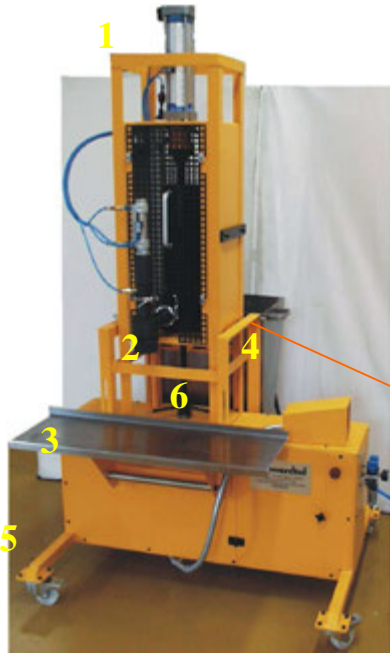
- Pneumatic dosing unit  
(dosing range: 100 – 500 ml)
- Product contacted parts (MILD STEEL)
- Filling tube
- Plunger inserting station  
(pneumatically activated)  
(fixed to frame)
- Plunger hopper  
(for standard plungers)
- Output up to 20 cartridges / minute
- Siemens S7 PLC control system

**● Version 2**

- Pneumatic dosing unit  
(dosing range: 500 – 1000 ml)
- Product contacted parts (MILD STEEL)
- Filling tube
- Plunger inserting station  
(pneumatically activated)  
(fixed to frame)
- Plunger hopper  
(for large sized plungers)
- Output up to 15 cartridges / minute
- Siemens S7 PLC control system

**● Version 3**

- Pneumatic dosing unit  
(dosing range: 500 – 3000 ml)
- Filling valve
- Product contacted parts (MILD STEEL)
- Storage tank (STAINLESS STEEL)
- Suction pipe
- Metal support tray for manual positioning  
of the container to be filled
- Moveable machine frame (with four guide  
rolls with locking device)
- Siemens S7 PLC control system



**SD-H Version 3** for printing ink and grease



Storage Tank with Suction Pipe



**SD-H Version 1** for sealants, adhesives

- 1 Pneumatic Dosing Unit
- 2 Filling Valve
- 3 Working Table
- 4 Storage Tank
- 5 Moveable Frame

- Pneumatic Dosing Unit
- Filling Pipe
- Plunger Inserting Station
- Plunger Hopper

## ● Advantages

- **Economical** solution for the filling of small batches
- Machine mounted on **moveable** frame (wheels with locking device) for moving it from one working place to another (version 3)
- **One-man-operation**
- Commissioning of the machine can be done by the customer
- Output up to 20 cartridges / minute (version 1 and 2)
- Safety devices included

Technical Data	
<b>Machine type</b>	Semi-automatic Filling and Closing Machine SD-H
<b>Measurements (L x W x H)</b>	approx. 1500 x 900 x 2000 mm
<b>Total weight</b>	approx. 175 kg
<b>Drive</b>	pneumatic
<b>Container types to be filled</b>	plastic, fibre and aluminium cartridges, printing ink cartridges, cans
<b>Filling volume</b>	Version 1: 100 to 500 ml Version 2: 500 to 1000 ml Version 3: 500 to 3000 ml
<b>Control system</b>	Siemens S7 PLC
<b>Compressed air connection</b>	
<b>Air pressure</b>	min. 5 bar
<b>Maximum Product Pressure at inlet of dosing unit</b>	12 bar