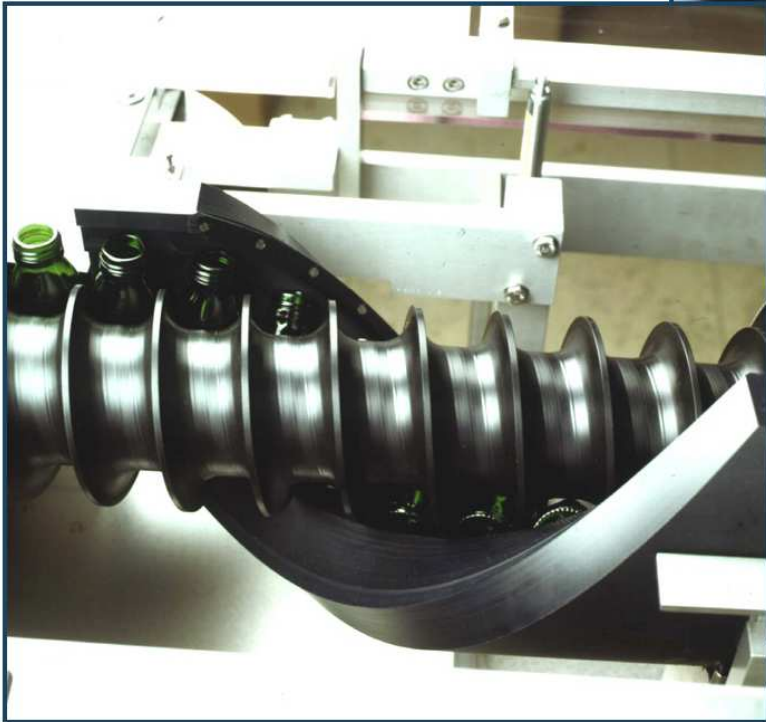
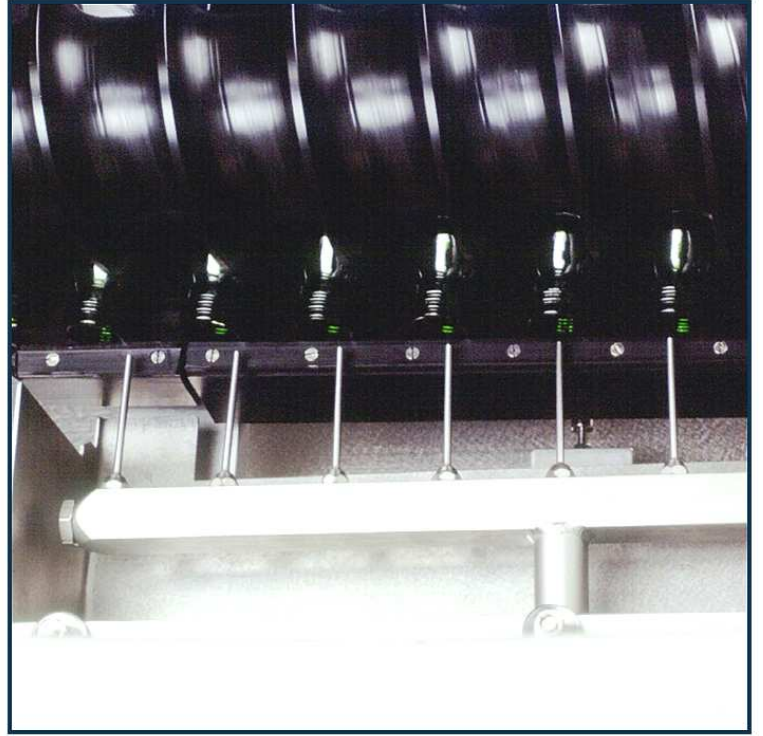




## **FAB – Technical data**

<b>Machine types:</b>	<b>FAB8010</b>	<b>FAB12000</b>
<b>Container diameter:</b>	<b>24 – 70 mm</b>	<b>16 – 55 mm</b>
<b>Max. container height:</b>	<b>150 mm</b>	<b>120 mm</b>
<b>Max. capacity:</b>	<b>9.000 / h</b>	<b>18.000 / h</b>
<b>Machine weight:</b>	<b>300 kg</b>	<b>650 kg</b>
<b>Dimensions:</b> (length x width x height)	<b>1,65 x 0,90 x 1,15 m</b>	<b>2,20 x 1,25 x 2,00 m</b>

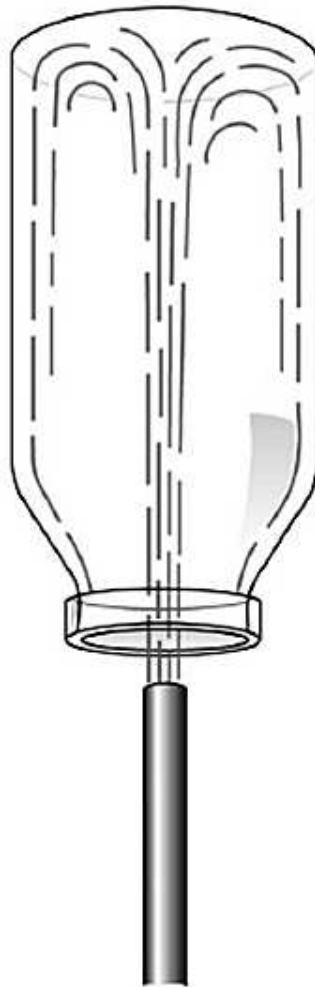


**Technical Specification**

**FAB8010**

Cleaning machine for bottles

FAB1060



Machine type:

F A B 8 0 1 0

Technical  
Specification  
FAB1060

## 1. General

- This specification refers to the standard design of the machine.

### 1.1 Application

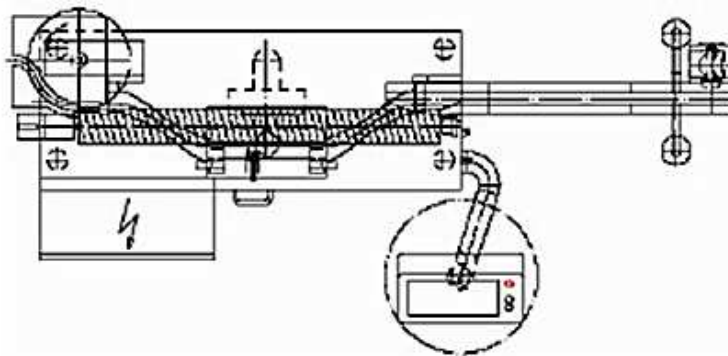
- Machine for blow-cleaning of bottles
- Continuous internal cleaning using 9 cleaning needles

### 1.2 Cleaning medium

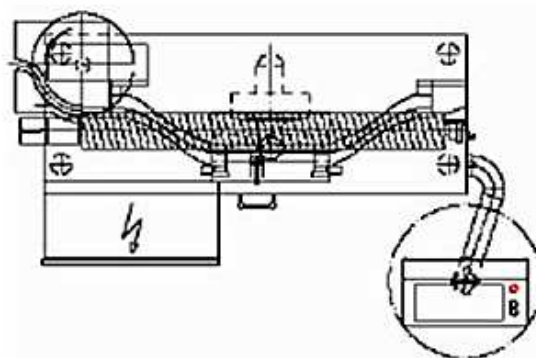
- Air

## 2. Machine design

### 2.1 Machine in stand-alone operation



### 2.2 Machine in in-line operation



### 2.3 Basic construction

- Machine base made of non-corrosive stainless steel (material: 1.4404 - AISI 316L) and anodized aluminium
- Fittings without dead spaces with clamped joints or interior seals
- Diaphragm valves in "tri-clover" clamp design
- Machine guard made of transparent plastic

Machine type:	F A B 8 0 1 0	Technical Specification FAB1060
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#### 2.4 Container infeed

- Infeed guides
- Rotary transfer table at the infeed, 350 mm diameter, with separate drive via brushless d.c. motor
- Sensor for detection of container shortage at the infeed, with function machine stop and automatic resumption of operation.

#### 2.5 Transport system

- Scroll to convey containers through the machine, driven by an infinitely variable three-phase motor. In connection with a turning guide the containers are turned upside down.
- Turning guides

#### 2.6 Main cleaning

- Continuous internal cleaning of the containers using 9 cleaning needles with permanent supply of air. When the machine stops the air supply is switched off automatically
- Needle holder made of non-corrosive stainless steel (material: 1.4571 - AISI 316 Ti)
- Extraction funnel
- Fan for extraction including connection part 80 mm diameter

#### 2.7 Container discharge in stand-alone operation

- Discharge guide
- Return part, 350 mm long.
- Drive part with stainless steel supporting leg, 350 mm long.
- Infinitely variable drive by brushless d.c. motor with stainless steel encasing.
- Lateral guides made of polyethylene.
- Cover over returning DELRIN conveyor.
- Conveyor belt with length 500 mm and slat belt made of DELRIN.
- Transfer to downstream machine.
- Sensor for detection of container build-up at the discharge, with function machine stop and automatic resumption of operation.

#### 2.8 Container discharge in in-line operation

- Discharge guide
- Sensor for detection of container build-up at the discharge, with function machine stop and automatic resumption of operation. This equipment will be mounted at the downstream transport conveyor belt.

Machine type:	F A B 8 0 1 0	Technical Specification FAB1060
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## 2.9 Electrical installation

### 2.9.1 Programmable logic control

- Siemens, type S7

### 2.9.2 Operating terminal

- The Siemens touchscreen, type MP377, is designed to swivel on a separate holder attached to the machine
- Size-related data for at least 100 sizes can be maintained on the memory card
- Password administration with 9 access levels for max. 50 users
- Display of the operational data with capacity display in pcs/min., total number of processed containers (cannot be reset), unit counter by container photoelectric eye and elapsed-hours meter

### 2.9.3 Control cabinet

- Control box attached to the machine, made of non-corrosive stainless steel (material: 1.4404 - AISI 316L), finely ground, with a measured surface quality of  $Ra \leq 1,6 \mu m$  (not applicable for weld seams). System of protection IP54 according to DIN 40050 and IEC 529.

## 3. Technical data

### 3.1 Controls and monitors

#### 3.1.1 Monitors with display at the operating terminal

- Set-up mode
- Emergency stop button pressed
- Guard open
- Safety circuit not activated
- Protection switch triggered
- Exchange CPU battery
- Overload scroll
- Compressed air available

#### 3.1.2 Input of size dependent machine and process data

- Machine capacity
- Speed of rotary transfer table

Machine type:	F A B 8 0 1 0	Technical Specification FAB1060
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### 3.2 Machine data

FAB8010		
Min. container diameter	(mm)	24
Max. container diameter	(mm)	70
Min. container height	(mm)	60
Max. container height	(mm)	150
Set output (Qest.) according to DIN 8743	(pcs/h)	9.000
Working height	(mm)	~ 900 ± 30
Connected load machine	(kw)	~ 1,5
Compressed air connection (control air)	(bar)	6
Compressed air connection (process air)	(bar)	~ 3
Compressed air consumption (process air) <sup>2</sup>	(l/h)	~ 30000
Noise level <sup>1</sup>	dB(A)	~ 78
<b>Machine dimensions</b>		
Length	(mm)	~ 1650
Width	(mm)	~ 900
Height	(mm)	~ 1150
Net weight of machine	(kg)	~ 300

<sup>1</sup> average value of the machine series, measured according to DIN 45635 Part 1 and part 28 during production conditions

<sup>2</sup> Consumption values in l/h as per DIN/ISO 2533

Subject to technical modifications

### 4. Options

- Fine and sterile filters for air
- Filter monitor
- Contact pressure gauge which can be calibrated with diaphragm pressure transducer to monitor the pressure
- Electric pressure monitor, with setting and display of the limit values on the operating terminal
- Pressure reducer made of stainless steel
- Wire numbering
- Adaptation of the supply voltage with mains isolation transformer
- Qualification package 1
- Qualification package 2
- Qualification package 3

### 5. Abbreviations

- AISI American Iron and Steel Institute
- CPU Central Processing Unit
- DIN Deutsches Institut für Normung  
(≅ German Institute for Standardization)
- EN Europäische Normung (≅ European Standardization)
- FAB Blow cleaning machine for bottles
- IEC International Electrotechnical Commission
- POM Polyoxymethylene (polyacetals)

Subject to modifications.