

Filling, Capping & Labeling Production Line

Carbonated Drinks and Non-Carbonated Drinks

Packing List

No	Equipment Name	Model/Capacity	Qty
Filling & Packing System for Carbonated Drink			
1	Air Conveyor with Fan	FS-01	2 M
2	Filling & Capping (2in1) Machine With Independent Operation Cabinet	DSGF 12-5	1
	Change Parts for 0.6L	-	1
	Change Parts for 1.5L	-	1
3	Cap Elevator	SG-1	1
4	Auto Adhesive Labeling Machine	TBL-1	1
5	Conveyor	-	6 M
6	Conveyor Motor	-	1
Filling & Packing System for Non Carbonated Drink			
1	Air Conveyor with Fan	FS-01	2 M
2	Filling & Capping (2in1) Machine With Independent Operation Cabinet	SGF 8-3	1
	Change Parts for 2.0L	-	1
3	Cap Elevator	SG-1	1
4	Auto Adhesive Labeling Machine	TBL-1	1
5	Conveyor	-	6 M
6	Conveyor Motor	-	1

Description

Filling & Packing System for Carbonated Drinks

1. Air Conveyor with Fan

The air conveying tunnel is installed on the ground by support. The fan is installed above the conveying tunnel. In the air inlet, there is air filter which can prevent the dust from being blown into the bottles. And the bottles will be transported into the two-in-one unit by air conveyor.

Technical parameters:

- (1) Material: stainless steel 304.
- (2) Specification: 2 meters; 1.5KW/piece



2. 2in1 Filling Machine for Carbonated Drinks - DSGF 12-5



The DSGF series machine is one type of professional filling machine for carbonated drinks which are packed with PET bottles. It is made of high-quality SUS304 stainless steel. The main components are processed precisely by CNC machines. The machine adopts advanced photo-electricity to detect running status. No bottle no filling. It realizes man-machine conversation by the application of touch screen for operation.

Adopt the clamping bottleneck way to wash bottle mouth and avoid touching screw mouth. Adopt the clamping bottleneck way in the whole conveying process. When the bottle type changes, you need to change the boards related with bottle diameter.

Filling adopts cylinder feeding structure. Filling valve adopts high filling speed and mass flow rate valve which control liquids level accurately and without loss.

Filling Part:



High Precision Isobaric Filling Valve for Reference:



The bottle is blocked by the bottleneck tray and raised up by the cam, and then the filling valve is opened to start filling. After the filling valve is opened, the material completes the filling process through the filling valve. After the filling finishes, the bottle mouth drops and leaves the filling valve, and the bottle enters the capping machine through the bottleneck star wheel.

Capping Part:






The stopper on the capping station jams the bottleneck, keeping the bottle upright and preventing rotation. The capping head keeps revolving and rotates on the capping machine, and realizes the actions of capping under the action of the cam, completing the entire capping process. The finished bottles are transferred from the capping machine to the bottle-out conveyor through the bottle-out dial wheel.

Main Technical Parameters

Model	DSGF 12-5
Working Station	Filling 12; Capping 5
Designed Capacity	720BPH for 1500ml
Filling Liquid	Carbonated Drinks
Filling Method	Isobaric Filling
Filling Temperature	Around 5°C

Main Material	Food Grade SUS304
Air Source Pressure	0.8MPa
Air Consumption	0.6m ³ /min
Washing Pressure	0.3MPa
Total Power	About 2.0KW
Overall Dimensions	L1800*W1650*H2300mm

Main configurations

No	Name	Brand	Country
1	Frequency Converter		Japan
2	PLC		
3	Operation Touch Screen		Taiwan, China
4	Proximity, Photoelectric Switch	Autonics	Korea
5	Cylinder, Solenoid Valve	AirTAC	Taiwan, China
6	Inlet Solenoid Valve		
7	Pump		China

3. Cap Elevator

There are lots of caps stored in the tank of the cap feeder. They will pass through the conveying channel to the cap unscrambler. There will be no reverse cap, because if the cap is reverse, it will slide back to the feeder through the side.

Technical Data:

- (1) Motor: 0.18KW
- (2) Overall size: 1600*620*2920mm



4. Auto Adhesive Labeling Machine



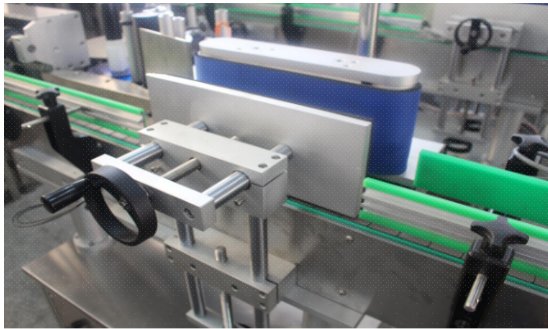
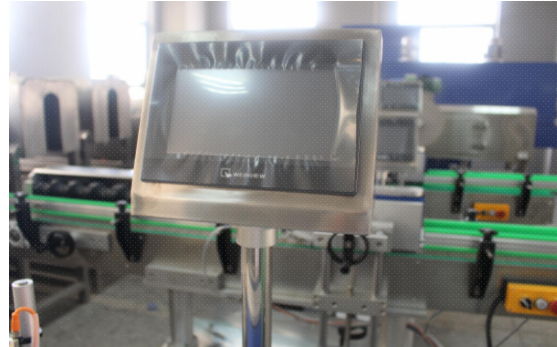
4.1 Brief Introduction

- 1) Heavy-duty construction utilizes oversized drive components combined with an aluminum and stainless steel base frame for years of dependable service.
- 2) Various product infeed systems are available that provide precise product spacing and orientation. It can be used stand-alone or integrated in-line to match the filling machine speed.
- 3) Advanced high torque micro-stepping driven applicators which include ratio-offset and speed-following capabilities for accurate and reliable application of a wide variety of label materials.
- 4) Designed for the application of front and/or back panel labels with the capability to label containers that are round, square, oval or rectangular.

SCULPTOR

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4.2 Technical Parameters

No	Item	Parameter
1	Main Material	Stainless Steel 304, Aluminum Alloy 6061
2	Dimensions	L2100mm * W900mm * H1300mm
3	Voltage	220V/50Hz
4	Power	1200W
5	Production Capacity	8400BPH for 330ml
6	Labeling Accuracy	+/- 1mm Beak Edge

7	Label Roll Core	76 mm
8	Label Roll Diameter	350 mm
9	Label Width	10~110 mm (special sizes can be customized)
10	Label Length	20~360 mm (special sizes can be customized)
11	Bottle Diameter	30~90 mm (special sizes can be customized)
12	Bottle Height	30~200 mm (special sizes can be customized)

5. Conveyor System

(It should be designed according to your factory layout)



Filling & Packing System for Non-Carbonated Drinks

1. 2in1 Filling Machine for Non-Carbonated Drinks - SGF 8-3



The fully automatic SGF series two-in-one juice filling machine is with stable structure, simple operation and high degree of automation. It is specially used for the production of PET bottled drinks of various specifications and bottle shapes. The parts in contact with the filling liquid are made of food-grade high quality stainless steel, which is hygienic.

The drink filling machine has the characteristics of wear resistance, strong stability, low failure rate etc., and high product quality.

The bottle is filled with the filling valve during the running process, and the filling is carried out by means of a closed filling method. The adjustment of the output is controlled by the inverter.

High-speed filling valve. Liquid level control is accurate, and the error is small.

After filling, the bottle enters the capping station by transmitting the star wheel. The rotary knife on the capping machine stuck in the bottle neck, and the bottle cap is held together to keep the bottle upright and prevent rotation. When the capping is completed, the capping head overcomes the magnetic slippage, does not damage the cap, and when the cap is raised, the cap lever ejects the cover from the cap mold.

Filling Part:



The rinsed bottle is blocked by the bottle neck tray and raised up by the cam, and then the filling valve is opened to start filling. After the filling valve is opened, the material completes the filling process through the filling valve. After the filling finishes, the bottle mouth drops and leaves the filling valve, and the bottle enters the capping machine through the bottle neck star wheel.

Capping Part:






The stopper on the capping station jams the bottle neck, keeping the bottle upright and preventing rotation. The capping head keeps revolving and rotates on the capping machine, and realizes the actions of capping under the action of the cam, completing the entire capping process. The finished bottles are transferred from the capping machine to the bottle-out conveyor through the bottle-out dial wheel.

Main Technical Parameters

Model	SGF 8-3
Working Station	Filling 8 Capping 3
Designed Capacity	720BPH for 1000ml
Filling Liquid	Non Carbonated Drinks
Filling Temperature	Normal Room Temperature
Main Material	Food Grade SUS304
Air Source Pressure	0.8MPa
Air Consumption	0.6m ³ /min
Washing Pressure	0.3MPa
Total Power	About 1.8KW
Overall Dimensions	L1050*W1400*H2250mm

Main configurations

No	Name	Brand	Country
1	Frequency Converter		Japan
2	PLC		
3	Operation Touch Screen		Taiwan, China
4	Proximity, Photoelectric Switch	Autonics	Korea
5	Cylinder, Solenoid Valve	AirTAC	Taiwan, China
6	Inlet Solenoid Valve		
7	Pump		China

Our Services

Installation, Training, Quality Guarantee, Warranty

1. Installation

Besides testing machines well and providing detailed operation manuals before delivery, our team also provides remote assistance to each buyer, by means of video call, teaching video, teaching pictures, etc. to help buyers install and operate the machines.

After the equipment is delivered to the buyer's workshop, the user should follow the layout to arrange the device in place.

2. Training

✦ Our company is responsible to provide technical training or consultation to the buyer. The training includes the structure and maintenance of the machine, machine control and operation.

✦ Through training, the technical staff of the buyer is able to grasp the operation and maintenance skills, adjust the process masterfully, and deal with various failures timely.

3. Quality Control

✦ Our company guarantees the equipment are new, unused, with latest design and suitable materials, and comply with all aspects of the contract in regard to quality, specifications and performance.

✦ Our company guarantees that the entire system can run without error after the correct guidance about the installation and training. The engineer of buyer's factory can accept training repeatedly within one week.

✦ Our company ensures quality in the contract period, responsible for provided design process, manufacturing, installation, commissioning or material defects, and all defects, malfunctions or damages caused by the production line.

✦ Our company vouches for the machine performance, quality and the product consumption indicators.

4. Warranty

✦ After the machines are inspected and accepted, we provide 12 months warranty with free spare parts and life-long technical support. In case machines break down, our engineer will help to solve the problems upon receiving the buyer's information. Beyond warranty period, charges will be made to the buyer.

Equipment Acceptance

Machines supplied by our company will come with equipment quality assurance book and delivery inspection report.

1. Acceptance Standard

The quality of production line equipment is in accordance with the national or industrial standards.

2. Acceptance Procedures

✦ Before delivery, we will arrange commissioning in our factory, which represents pre-assessment and acceptance. It will be signed by both parties.

✦ When finishing the installation and commissioning in the buyer's factory, and all equipment are accepted by buyer, then we do final confirmation. During this period, we are responsible for operation, maintenance and technical training. Final confirmation will be signed by both parties to take effect.