

Automatic Carbonated Beverage Bottling Line

This automatic bottling line is a comprehensive system for efficiently filling and packaging carbonated beverages. It integrates bottle rinsing, filling, capping, and labeling, with a PLC control system for automated operation and real-time monitoring.



Overview

3-In-1 Automatic Carbonated Beverage Filling Solution

This advanced bottling line integrates bottle washing, filling, and capping into a single, compact unit designed to maximize efficiency and minimize air pollution. Constructed with high-grade stainless steel for durability and hygiene, it is specifically engineered for carbonated drinks in PET bottles. The system features a frequency changer for precise motor control and a flexible design that allows for quick bottle shape changes without adjusting machine height.

Key Features

System Advantages

- 3-in-1 integrated design (Washing, Filling, Capping)
- Suspensory transmission gear for easy maintenance
- Stainless steel construction for material contact parts
- Frequency changer for main motor control
- Output number indicating function
- Adjustable for various bottle shapes via thumb wheel changes

Performance Metrics

Production Capacity

3000 BPH

Minimum Throughput

18000 BPH

Maximum Throughput

Technical Specifications

Model Specifications Table

Model	Capacity (500ml)	Filling Pressure (Mpa)	Rinsing Pressure (Mpa)	Filling Volume (L)	Weight (kg)
DCGF18-18-6	5000	0.15-0.35	0.2-0.25	3.5	3500
DCGF24-24-8	8000	0.15-0.35	0.2-0.25	4	4500
DCGF32-32-10	12000	0.15-0.35	0.2-0.25	6	5500
DCGF40-40-12	16000	0.15-0.35	0.2-0.25	8	6500

Control System

PLC Control • Frequency Inverter • Real-time Monitoring

Filling Precision

$d \pm 5m$

Bottle & Cap Requirements

Bottle Compatibility	PET Bottle, Round Shape, Square Shape, PE Screw Cap
Bottle Diameter Range	Æ50 - Æ110
Bottle Height Range	150 - 340mm