

## *CCG1000-8/12/16/20TJ Chemical Liquid Bottle Filling Machine*



Automatic linear piston filling machines are extremely flexible piston fillers capable of filling accurately and rapidly a wide variety of products from low viscosity liquids to high viscosity paste or cream with or without chunks or particulates. Widely used in the Chemical industry(e.g., grease filling machine, lubricant filling machine, etc); agrochemical industry(e.g EC filling machine, SC filling machine, SL filling machine, etc).

Automatic linear piston filler is designed for completely automatic, multiple positions, inline dispensing of liquids and pastes in volume ranging from 50ml to 1000m per cycle. Available in 4, 6, 8, 10,12, and 16 nozzle configurations to match specific production requirements, the Dual lane option is available to increase production by 100% while preserving valuable line space.

Linear piston liquid filling machinery is manufactured with a 304 stainless steel frame, It comes standard with PLC control and touch screen HMI ensuring reliable, repeatable control with minimal operator intervention, Precision bored, heavy-walled metering cylinders dispense product at accuracy up to +/- 0.2%, High-precision, the servo motor is driven screw movement faster and more precise than the pneumatic system, food-grade stainless steel, and plastics for sanitary operations or use, anodized aluminum components, plus many more features available with motorized conveyor and indexing package for integrated container handling and positioning, No container/No fill feature detects missing or mispositioned containers to prevent waste and product spillage. Unique variable, separate speed control, an actuator of a dual-stage fill provide precise "no-spill" control for top-off applications or filling difficult products.

Empty bottles are staged on the main drive conveyor prior to entering the piston filler. Bottles enter the filler and are counted by optical sensors to ensure the correct numbers of bottles are in position. Once in place, bottles are locked in position by the pneumatically operated bottle

clamping mechanism. This ensures bottles are located correctly under each filling head to minimize under or over-fills. The filling process begins as a series of stainless steel valves descend into the bottles for fast, accurate, and consistent filling. After target volume is achieved, the out-gate cylinder withdraws itself from its position and allows the filled bottles to go further on the conveyor for the sealing operations.

#### Technical Parameters:

Nozzle Numbers	4/6/8/10/12/16/20 heads
Filling Volume	10ml-100ml/ 50ml-1000ml/ 1L-5L
Production Capacity	600bottle per hour -8000 bottles per hour
Filling Erro	±1g(100mL) ±2g(1000mL)(*Filling water)
Height of Feeding Port	2300mm
Feeding Port Diameter	Dn40
Nozzle Diameter	Φ18mm
Minimum Bottle Opening	≥Φ22mm
Air Pressure	0.6-0.8MPa
Power Source	~380V/50Hz
Dimension	2835×1490×2480mm(L×W×H)
Weight	around1200Kg
Bottle Feeding Direction	From left to right