

Automatic Dropper Bottle Filling & Cap Screwing Machine C4DY-2



This automatic machine fills and caps small bottles like eye drops, essential oils, and serums. It uses accurate pumps to fill liquids into different bottles, then places and tightens the caps in the right position. The whole process doesn't need human effort and runs efficiently. The model is often used in food, pharmaceutical, and cosmetic areas. It can handle up to 30 bottles one minute and keeps the filling clean and consistent. With its smart sensors, it can detect the position of bottles. This helps prevent waste and leaking.

The machine uses two types of pumps, piston and peristaltic, to handle different kinds of liquids.

The piston pump is good for thicker liquids, while the peristaltic pump works well for thinner ones. All parts that touch the liquid are made from 316L stainless steel, a material that doesn't rust, and it is safe for medicine. The machine also includes a protective cover to keep the process clean and safe. It fits easily into production lines and works well with other equipment.



Features

- ✓ **Two filling systems.** It offers piston and peristaltic pumps for different liquid types. Both provide accurate filling with low error.
- ✓ **Smart Sensors.** Sensors detect bottle presence to ensure accurate filling and reduce waste.
- ✓ **Automatic cap handling.** The machine places and tightens caps automatically. It uses a three-claw capping head with adjustable torque.
- ✓ **Great flexibility.** The height and spacing of filling needles and capping heads can be changed to match different bottle sizes.
- ✓ **Simple Control Panel.** Operators can adjust settings easily through the user-friendly screen.
- ✓ **Stable Operation.** It requires a 200–300L air tank to keep air pressure steady and ensure reliable performance.
- ✓ **Easy maintenance.** Parts like the pump and conveyor can be adjusted or cleaned without much trouble, and maintenance steps are simple.

Technical Parameters

Model	C4DY-2
Production Capacity	30 bottles/min (four-head filling)
Air Pressure	0.5-0.8 MPa
Air Volume	13-15 m ³ /h
Power Supply	220V 50Hz
Total Power	3 kW
Weight	950 kg
Dimension	2,400 × 1,650 × 1,700 mm