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900B/H 5Gallon Water Bottle Filling Machine



Automatic Bottle Rinsing Machine

When the bottle feeding optoelectronic switch in the end of machine detect bottle infeed, the conveyer chain in the washing machine will be run and drive the bottles to the first washing position, and bottle conveying unit stop and start rinsing process. The machine is with 8 rows and 16 washing positions for bottle elevating type rinsing, the maximum washing time is 18 seconds.

Washing pumps are using high standard CNP high-pressure pumps, and the pumps are set outside of the machine for easy maintenance. All the washing tanks are using round type best standard water tanks.

1st Washing position: drip off.

2nd Washing positions: recycled water washing

3rd Washing positions: drip off

4th -5th washing positions: Hot alkaline water washing (①With 24kw heating tube, can heat the rinsing water

to 65°C; ②hot alkaline water can complete clean up dirt in the bottle; ③Heating water tank is double-deck stainless steel structure, with heat preservation cotton in the middle, and with heat insulation treatment for the hot water rinsing pipe. ④With quick reflux unit to

prevent heat diffusion and save energy; ⑤ With suction opening for related washing positions to drain mist.)

6th washing position: recycled water washing

7th- washing positions: drip out

8th -12th washing positions: disinfectant washing


13^t position: recycling (recycle the disinfectant left in the bottle)

14th-15th washing position: pure water rinsing(including bottle mouth soaking cleaning unit)


16th position: drip out

With disinfectant recycling system, double medium filtration and recycling system, easy for sampling and testing, each water tank with low liquid level sensor, if low level the machine will stop and alarm.

Main Configuration List

	Item	Model/ specification	Qty	Origin
Rinsing machine	Recycle water washing pump	CDL16-20 2.2KW	2	CNP
	Alkaline water washing pump	CDL32-20-2 3.0KW	1	CNP
	Disinfectant washing pump	CDL32-20-2 3.0KW	2	CNP
	Pure water washing pump	CDL16-20 2.2KW	1	CNP
Quick reflux unit with warming function	Washing conveying motor	DRV90/40:300 0.37KW	1	MOTOVARIO
	Bottle output cylinder	MDBB50*250	1	Airtac
	Bottle push cylinder	MDBB40*300	1	Airtac
Bottle pulling cylinder	CDM2E32*50	1	Airtac	



	Rising nozzle rising cylinder	CDM50-200	2	Airtac
	Low pressure electric element	AC contactor, signal relay	1	Schneider
	Power capacity	38.0KW		
	Overall dimension	7600 (L) x2200 (W) x2300 (H) mm		
	Material	Frame : 80x 80x2.0mm ; panel : 2.0mm; SUS304 Alkaline water tank: 2.0mm SUS316L		



5. Non-contact variable frequency Type Filling Machine

- a) Bottle neck clamping structure, for accurate positioning.
- b) With transducer control filling system, beginning big volume filling, when reach 80% will turn to small volume, to avoid water overflow and save pure water.

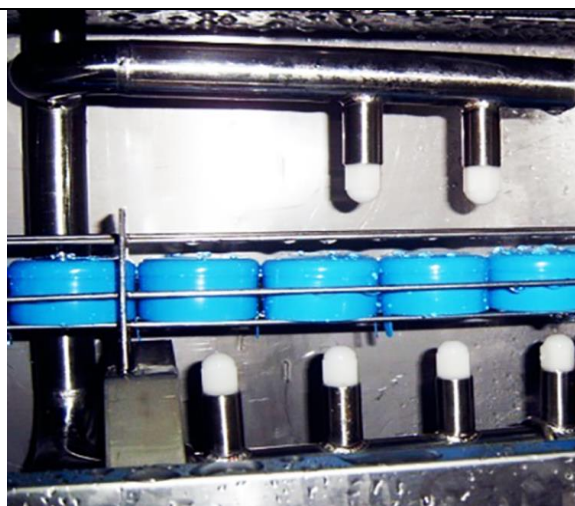
c) The complete filling process is using mechanical drive, stepless frequency speed Adjustment and control by PLC. Filling capacity is 1000 bottles/hour



Item	Model/ specification	Qty	Origin
Filling Valve	SUS316L	6sets	Home made
Main Motor	CDLF32-2 2.2kw	1set	CNP
Transducer	FR-E740-2.2K-GHT	1set	Danfoss
Low pressure electric element	AC contactor, signal relay	1set	Schneider
Power capacity	2.8KW		
Overall dimension	2700 (L) x 900 (W) x2000 (H) mm		
Material	80 x 80 2.0mm; SUS304		

6. Capping unit (cap loading, washing, feeding, pressing)

Main configuration list:



Item	Model/ Specification	Qty	Origin
Cap loading unit	RV040 i=20 40W	1	MOTOVARIO
Cap blending motor	RV040 i=50 250W	1	MOTOVARIO
Cap washing pump1	CHL2-20 0.55KW	1	CNP
Cap washing pump2	CHL2-20 0.55KW	1	CNP
Cap push cylinder	MAL32-100	1	Airtac



Photoelectric sensor	PA18CSR30NA	1	Carlo gavazzi
Low pressure electric element	AC contactor, signal relay	1set	Schneider
Capping gear motor	RV040i=50 0.55Kw	1set	MOTOVARIO
Power Capacity	2.5KW		
Overall dimension	2400 (L) x800 (W) x2560 (H) mm		
Materials	Frame: 80x 80x2.0mm; panel: 2.0mm; Water tank: 2.0mm SUS316L		



Pictures of the water Bottle Filling Machine:

