

MT-CGF Series Bottled Water Filling Line

The MT-CGF series bottled water filling line is designed to fill mineral water or purified water into PET bottles from 200ml-2500ml. Full models are available for the output from 500QB/H to 36000B/H.

Martin water filling production line mainly consists of water treatment equipment, filling system, packaging system and conveyor system. The bottle blowing machine produce new bottles from the bottle preform. New bottles go into rinsing, filling, capping mono-bloc through air conveyor. The water treatment system supply purified water for bottle washing and filling. After capping in the mono-bloc, bottled water go into packaging system for production date, labeling and final package through belt conveyor. The whole process is automatically controlled by PLC. The users could adjust the producing capacity by touch screen on the control box easily.



CGF Series Rinsing, Filling, Capping Machine

Martin MT-CGF series bottling machine incorporates rinsing, filling and capping in a complex system with full-automatic controls. It is suitable for producing PET and plastic bottled mineral water and purified water. The method of filling adopts gravity or micro-pressure filling which makes the filling velocity faster and more stable. The equipment is fitted with the advanced Mitsubishi PLC to control the operation and cooperated by frequency converter of the main motor; it makes the operation more stable and reliable. The photoelectric sensor is used to detect operating conditions of each section, which makes the operation of this equipment highly automatic and convenient.

System Features:

1. Direct connection technology is adopted between air conveyor and bottle-feeding star wheel, no bottle feeding screw and conveying chain. Easy to change the bottle shape.
2. Bottle neck-hold technology is adopted for bottle conveying. While changing the bottle shape, users only need to replace the arc guide plate, star wheel and other nylon parts that are relevant to the bottle diameter.
3. The 3 in 1 unit machine incorporates rinsing, filling, and capping into one, making bottle wear rate lower, conveying accurate and stable, changing bottle shape more convenient.
4. The specially designed bottle gripper of rinser is made of fully stainless steel, which is durable and firm. Besides, it doesn't contact with the screw parts of bottle neck, which avoids the secondary contamination.
5. The machine is designed with high-speed mass flow gravity filling valve to ensure the high filling speed and precise liquid level without any loss.

6. Components contacting with liquid are all made of high-quality stainless steel and food-grade engineering plastic, and most electrical systems adopt imported components that meet our state food hygienic standards.
7. Bottle-outputting star wheel and bottle-bottom supporting plate adopt spiral winding method, and there is no need to adjust the height of bottle conveying chain while changing the bottle shape

System main Components:

1. The equipment includes bottle rinsing, filling machine, capping machine, rack, sealing window, main motor, drive system, transmission system of bottles, cap sorting device, and electric control system and more.
2. The dumping gear of the bottle rinsing machine consists of water divider, bottle rinsing gripper, upper turntable, guide rail, protective shield, water-spraying device, water tray.
3. The filling mechanism is mainly made up of filling valve, guide rail, hoisting device, bottle jamming elevating gear, etc.
4. The cap-sealing mechanism consists of cap sorting machine, cap-setting guide rail and capping machine.
5. The auxiliary(optional) equipment have bottle rinsing water reflux tank, bottle-feeding air conveyor, and bottle-outputting chain. Besides, we will configure manual bottle feeding platform (or bottle unsrarnbler), automatic cap elevator and so on.



Model	CGF14-12-5	CGF18-16-6	CGF24-18-6	CGF32-24-8	CGF40-32-10	CGF50-40-12	CGF72-50-18	CGF80-60-20
Capacity (500ml/bottles)	5000BPH	8000BPH	10000BPH	15000BPH	18000BPH	22000BPH	30000BPH	36000BPH
Washing heads	14	18	24	32	40	50	72	80
Filling heads	12	16	18	24	32	40	50	60
Capping heads	5	6	6	8	10	12	18	20
Suitable bottle	PET bottle, Plastic bottle							
Bottle Size	Φ55-110mm							
Height of bottle	150-310mm							
Suitable cap	Plastic thread cap							
Weight	2000Kg	4000 Kg	4500 Kg	6000 Kg	7800 Kg	9000 Kg	10000Kg	12000Kg
Main motor power	1.5Kw	3 Kw	3 Kw	3 Kw	5.5 Kw	7.5 Kw	7.5 Kw	7.5 Kw