

XHL-HYGX24-16 Liquid Filling and Sealing Machine



The filling and cap turning (capping) integrated machine is mainly applied for filling, cap turning (capping) and sealing of liquids of different viscosities such as oral liquids, syrup, medicinal wine, health products and tincture in such industries as medicine, food, health products, daily chemical industry, agrochemical industry, etc.

Features

- Integrating filling and cap turning (capping) and taking small floor space, it adopts rotary continuous bottle moving mode. It is suitable for small and large bottles with high output.
- The circumferential swing mechanism is adopted for filling and cap turning (capping), with such features as stable and reliable operation, high efficiency, easy-to-maintain structure and smart design.
- It adopts the plunger metering pump to fill liquids of various viscosities with high precision. The pump can be easily disassembled, making cleaning and sterilization convenient. The filling principle also includes the use of peristaltic pump, negative pressure type, weighing type, self-flow type, reflux defaming type, etc.
- Each pump is driven by a set of servo motor. The filling volume is adjusted on the man-machine interface, featured by convenient operation and quick adjustment. A set of servo motor can also drive many pumps, and each pump can realize fine adjustment.
- The seal ring of the plunger metering pump is made of silicon rubber, Teflon or other materials depending on different industries and liquid ingredients. Ceramic material can be used in special applications.
- It can be equipped with CIP/SIP cleaning and sterilization system.
- PLC control system with variable frequency speed control and high degree of automation.
- The filling system is provided with the anti-leaking device, realizing filling from the bottom of the bottle, rising slowly and avoiding bubbles.

- The capping head adopts two knives for rolling threads and two knives for sealing. The blade is subject to quenching treatment with good durability. The seals and threads are beautiful and uniform. The capping head accepts flexible design with easy adjustment, and can also be designed to be used for pull caps.
- The tightness of the air gripper type cap turning head can be adjusted without damaging the bottle and cap.
- It can be equipped with the cap storage and lifting mechanism and the mechanism for identifying reverse caps and eliminating nonconforming products.
- The whole machine is designed according to GMP requirements.

Technical Parameters:

Model	XHL-HYGX/24-16
Production capacity(taking 50/100ml as an example)	200-250 bottles/minute
Number of filling heads	24 heads
Number of cap turning (pressing) heads	16 heads
Filling range	Commonly using 30/50/100 ml glass bottles,can be customized for other 20-1000ml glass bottles
Filling accuracy	$\leq \pm 0.5-1\%$
Cap turning and (pressing) pass rate	$\geq 99.8\%$
Power supply	220/380V 50/60HZ
Power consumption	$\leq 3.5\text{KW}$
Compressed air	0.4-0.6MPa
Weight	2000 KG