

PRODUCT SELECTION DOCUMENT

Gravity Filling Machine

Engineering Datasheet

For overseas buyers, plant engineers and project teams evaluating a standalone machine or an integrated filling, capping and labeling line.

Manufacturer	Guangdong New Zhen Xiang Smart Equipment Co., Ltd. (ZXSMART)	Founded	1998
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Configuration range

Published values are configuration references from ZXSMART product parameter records. Final values depend on the actual product, container, closure, label, target output and factory utilities.

12-Head Gravity Filling Machine

Filling Range	50-5000 mL	Filling Heads	12
Speed	3,000 bottles/hour at 500 mL	Accuracy	±1%
Method	Gravity-flow filling by the liquid's own weight; no pressure transfer.	Tank / stability	High-level tank with constant liquid level and pressure stabilization.
Metering	Timed filling valves; change the valve as needed to adjust the 50-5000 mL range.	Foam handling	Gentle filling for liquids that are easily foamed, subject to sample confirmation.
Liquid viscosity	Low-viscosity liquids, 0-1000 cP.	Suitable capacity	50-5000 mL.
Bottle size	Diameter 30-120 mm; height 80-320 mm.	Bottle type	Round, square or irregular plastic and glass bottles.
Contact parts	316 stainless steel with food-grade silicone sealing rings.	Tank capacity	Not provided in the current specification; confirm against the required output and tank drawing.
Voltage	380 V, three phase; 220 V single phase optional.	Power / air	1.5 kW; air pressure 0.6-0.8 MPa.

Information required for final selection

Product	Name, viscosity or flow behavior, temperature, foaming tendency and corrosiveness	Container	Bottle or jar drawings, dimensions, material, neck finish and sample quantity
Closure / label	Cap or pump sample, torque requirement, label drawing, roll direction and coding content	Output	Target bottles per minute, filling volume range, shift pattern and upstream/downstream equipment

Factory	Power supply, compressed-air conditions, available footprint and preferred line direction	Acceptance	Agreed test product, speed target, inspection points and handover documents
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Factory acceptance and handover

ZXSMART can run the agreed bottle, cap, label and product samples before shipment. The acceptance scope should record the test material, operating settings, speed basis, changeover method, cleaning method and agreed inspection points. Remote review is available before dispatch.

Confirmed service support

Warranty	1 year	Online response	Within 2 hours
Remote commissioning	Available	Overseas installation	Available; engineer visa and travel are covered by ZXSMART
Common spare parts	Normally dispatched within 7 days	Documentation	English manual, electrical diagram and pneumatic diagram provided
PLC backup	Provided	Training	Operation training provided
Lifecycle parts	Continued supply available		