

PRODUCT SELECTION DOCUMENT

Gear Pump 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.

2-Head Gear Pump Filling Machine

Industries	food and beverage, daily chemical and personal care, alcohol products	Products	liquid, emulsion, cream and paste
Automation	Fully automatic	Speed at 500 mL	15-20 Bottles/Min
Bottle volume	50-30000 mL	Machine material	304 stainless steel
Contact material	316 stainless steel, PTFE	Standard voltage	380V
Power	3 kW	Air pressure	0.6-0.8 MPa
Machine dimensions	1000 x 1500 x 2200mm	Customization	Yes
Suitable material	liquid, emulsion, cream and paste	Filling range	50-30000 mL
Filling heads	2	Filling speed at 500 mL	15-20 Bottles/Min
Filling accuracy	±1%	Filling method	gear-pump filling

4-Head Gear Pump Filling Machine

Industries	food and beverage, daily chemical and personal care, alcohol products	Products	liquid, emulsion, cream and paste
Automation	Fully automatic	Speed at 500 mL	20-25 Bottles/Min
Bottle volume	50-30000 mL	Machine material	304 stainless steel
Contact material	316 stainless steel, PTFE	Standard voltage	380V
Power	4.5 kW	Air pressure	0.6-0.8 MPa
Machine dimensions	1200 x 1500 x 2200mm	Customization	Yes
Suitable material	liquid, emulsion, cream and paste	Filling range	50-30000 mL
Filling heads	4	Filling speed at 500 mL	20-25 Bottles/Min
Filling accuracy	±1%	Filling method	gear-pump filling

6-Head Gear Pump Filling Machine

Industries	food and beverage, daily chemical and personal care, alcohol products	Products	liquid, emulsion, cream and paste
Automation	Fully automatic	Speed at 500 mL	30-35 Bottles/Min
Bottle volume	50-30000 mL	Machine material	304 stainless steel
Contact material	316 stainless steel, PTFE	Standard voltage	380V
Power	6 kW	Air pressure	0.6-0.8 MPa
Machine dimensions	1500 x 1500 x 2200	Customization	Yes
Suitable material	liquid, emulsion, cream and paste	Filling range	50-30000 mL
Filling heads	6	Filling speed at 500 mL	30-35 Bottles/Min
Filling accuracy	±1%	Filling method	gear-pump filling

8-Head Gear Pump Filling Machine

Industries	food and beverage, daily chemical and personal care, alcohol products	Products	liquid, emulsion, cream and paste
Automation	Fully automatic	Speed at 500 mL	35-40 Bottles/Min
Bottle volume	50-30000 mL	Machine material	304 stainless steel
Contact material	316 stainless steel, PTFE	Standard voltage	380V
Power	7.5 kW	Air pressure	0.6-0.8 MPa
Machine dimensions	1700 x 1500 x 2200mm	Customization	Yes
Suitable material	liquid, emulsion, cream and paste	Filling range	50-30000 mL
Filling heads	8	Filling speed at 500 mL	35-40 Bottles/Min
Filling accuracy	±1%	Filling method	gear-pump filling

10-Head Gear Pump Filling Machine

Industries	food and beverage, daily chemical and personal care, alcohol products	Products	liquid, emulsion, cream and paste
Automation	Fully automatic	Speed at 500 mL	45-50 Bottles/Min
Bottle volume	50-30000 mL	Machine material	304 stainless steel
Contact material	316 stainless steel, PTFE	Standard voltage	380V
Power	9 kW	Air pressure	0.6-0.8 MPa
Machine dimensions	2000 x 1500 x 2200mm	Customization	Yes
Suitable material	liquid, emulsion, cream and paste	Filling range	50-30000 mL
Filling heads	10	Filling speed at 500 mL	45-50 Bottles/Min
Filling accuracy	±1%	Filling method	gear-pump filling

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

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		