

Liquid Filling Machine

Factory-Direct | Piston · Overflow · Pump · Gravimetric | CE Certified

200+

Lines Shipped

+/-0.2%

Fill Accuracy

30+

Countries

50 ml-30 L

Fill Range

About This Catalog

This document covers our complete liquid filling machine range — from bench-top semi-automatic units for R&D; and startup production through to fully automatic multi-head rotary lines running 150+ containers per minute. All machines ship with CE documentation, a full-speed fill test report, and a 12-month warranty on mechanical components.

We have manufactured and shipped filling equipment since 2008. Every order begins with a viscosity and foaming review of the actual product — not a generic specification form — because the fill principle must match the liquid, not the other way around.

Liquid Filling Machine Types

Four fill principles cover the full viscosity and accuracy range. Choosing the right one prevents the most common failure: a machine that fills accurately in the demo but drifts on a warm production floor with your actual product.

Type	Fill Principle	Viscosity	Accuracy	Best For
Piston	Fixed-volume piston stroke	50-5,000 cP	+/-0.5%	Sauces, edible oils, shampoo, lotion
Overflow	Timed gravity + overflow return	1-200 cP	+/-1.0%	Beverages, water, alcohol, chemicals
Pump	Gear or peristaltic pump	500-50,000 cP	+/-0.8%	Honey, adhesives, thick pastes, gels
Gravimetric	Load-cell net weight	Any	+/-0.2%	Pharma, chemicals, high-value liquids

Automation Levels

Level	Description	Output	USD Range
Semi-Automatic	Foot-pedal, single head, manual container placement	200-500/hr	2,000-6,000
Auto Single-Head	PLC + conveyor, auto-index, no manual handling	600-2,000/hr	8,000-20,000
Auto Multi-Head	2-8 heads, rotary or inline, full line integration	2,000-9,000/hr	22,000-65,000
Turnkey Line	Filler + capper + labeller + checkweigher + palletiser	Up to 12,000/hr	50,000-150,000+

Technical Specifications

Parameter	Semi-Auto	Auto Single	Auto Multi-Head
Fill range	50 ml-5 L	100 ml-20 L	50 ml-30 L
Fill accuracy	+/-0.5-1.0%	+/-0.3-0.5%	+/-0.2-0.5%
Power	220V/50Hz	220/380V/50Hz	380V/50Hz
Wetted material	316L SS + EPDM	316L SS + EPDM	316L SS + EPDM/PTFE
CIP ready	Manual wash	Optional	Standard
PLC brand	—	Delta/Siemens	Siemens/AB
HMI	—	7-inch touch	10-15 inch touch
Certification	CE	CE + ISO 9001	CE + ISO 9001
Warranty	12 months	12 months	12 months

Industries Served

Food & Beverage

Edible oils, sauces, condiments, beverages, dairy, honey. FDA-contact materials standard.

Pharma & Nutraceutical

Cough syrup, hand sanitiser, IV fluids, supplements. GMP-ready designs available.

Chemical & Industrial

Lubricants, solvents, adhesives, pesticides, cleaning agents. ATEX option on request.

Cosmetics & Personal Care

Shampoo, lotion, serum, gel. Foam-control nozzles standard for high-surfactant products.

Agrochemical

Herbicides, fungicides, fertiliser solutions. Corrosion-resistant wetted parts.

Lubricants & Oils

Engine oil, hydraulic fluid, gear oil. Drum and IBC filling up to 1,000 L.

How to Get a Quote

1. Send Us Your Product Data

Share viscosity (at operating temperature), container type and size, fill volume range, and required output. A one-page brief is enough — we will ask follow-up questions if needed.

2. We Review and Recommend

Within 48 hours our engineering team reviews your data and recommends the correct fill principle, head count, and automation level. We flag any edge cases (foaming, temperature sensitivity) before quoting.

3. Quotation with Technical Drawing

Our quote includes a dimensional drawing, fill accuracy grade, power requirements, and lead time. Freight, packaging, and documentation fees are itemised separately — no hidden costs.

4. Factory Test Before Shipment

Every machine runs a full-speed fill test before dispatch. You receive a signed report with actual fill weights, accuracy readings, and video footage.

Website: powderbagging.com/contact-us/ Email: kevin@powderbagging.com Response time: within 48 hours Quote includes: machine drawing, fill accuracy spec, lead time, CE documentation list.