

Peristaltic and Gear Pump Filling Machines

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SERVO™



Smart. Accurate. Fast.



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WORLD LEADER IN FILLING MACHINES

About



ESTABLISHED IN THE UNITED KINGDOM IN 1945 C.E.KING LIMITED HAVE BEEN MANUFACTURING AND SUPPLYING FILLING MACHINES TO PHARMACEUTICAL, HEALTHCARE AND COSMETIC COMPANIES FOR OVER 70 YEARS.

OUR PHILOSOPHY IS TO CREATE VERSATILE, FLEXIBLE AND MODULAR MACHINES WHICH CAN FILL A WIDE RANGE OF PRODUCTS ACCURATELY AND AT SPEED USING THE LATEST TECHNOLOGIES AVAILABLE.

OUR CONTINUOUS COMMITMENT TO DEVELOPMENT HAS SEEN OUR RANGE OF MACHINES EVOLVE TO INCLUDE POSITIVE DISPLACEMENT GEAR PUMP, PISTON PUMP AND PERISTALTIC PUMP MODELS WITH INCREASED SPEED, ACCURACY AND VERSATILITY COMBINED WITH ADVANCED ELECTRONICS, SERVO AND SOFTWARE SYSTEMS THAT KING CUSTOMERS HAVE COME TO EXPECT.

WITH OVER 15000 INSTALLATIONS WORLDWIDE, KING MAINTAINS ITS POSITION AS A WORLD LEADER IN DESIGNING AND MANUFACTURING FILLING AND PACKAGING MACHINERY.



TABLETOP GEAR PUMP AND PERISTALTIC FILLING MACHINES

The King Technofill is a compact, versatile semi-automatic single head filling machine designed for the accurate dosing of products into glass or plastic bottles. Using a high power servo motor to drive either a positive displacement gear pump or a peristaltic pump, the Technofill is one of the most powerful and controllable table top filling systems available.

Our simple and intuitive user interface has been developed over many years with much customer input. Complete control over the filling cycle is facilitated by easily programmable filling parameters and profiles which can be saved by product name and quickly recalled, enabling fast and efficient operation and changeover.

Operation to suit individual production environments is simple with three different modes including single shot dose, multi-shot dose with preset time delay and continuous fill.

The Technofill is also a scalable solution allowing businesses to add extra production capacity or automation at a future date.



SYSTEM FEATURES AND BENEFITS

- Fast, reliable and accurate filling of products.
- Filling range of between 0.2ml to 5 Litres.
- Repeatable filling accuracy of +/- 0.5% or better.
- Suitable for filling free flowing liquids and viscous creams.
- Gear pump (Four Sizes) and peristaltic pump models.
- Suitable for drawing liquid from a barrel or via break tank.
- Large touch screen for easy setup and simple operation.
- Multiple Languages including French and German.
- Multi stage profile filling and user programmable recipes.
- Extensive range of filling nozzles and accessories.
- Peristaltic version ideal for aseptic filling.
- Easy to clean and maintain.
- Scalable modular design ready for future automation.
- FDA approved stainless steel 316 and PTFE contact parts.
- Tool-less design for fast and easy product changeovers.

OPTIONS AND ADDITIONS

- Wide range of filling nozzles and accessories.
- Four gear pump sizes (1.5, 6, 10 and 17 litres).
- Hot fill gear pumps with heated product lines.
- Eight peristaltic pump silicone tubing sizes.
- Cream hoppers and various size product tanks.
- Additional filling head to double output.
- Multiple screen mounting positions.
- 230v 50Hz and 110v 60Hz models.
- Footswitch.
- Automated version with conveyor.
- Easily integratable with other packaging machinery and automation systems.
- Software and control system is highly customizable to suit individual requirements.
- Validation support pack.



FLEXIBLE FILLING SYSTEMS CAPABLE OF HANDLING A WIDE RANGE OF PRODUCT MEDIAS

INDUSTRIES AND PRODUCTS SERVED

Technofill machines are used extensively by companies operating in the Pharmaceutical, Biotech, Healthcare, Cosmetic, E-liquid and Vape, Chemical, Food and other Industries.

- Syrups
- Suspensions
- Ointments
- Gels
- Medicines
- Mouthwash
- Eye wash.
- Multivitamins
- Supplements
- Hand wash
- Liquid soap
- Shower gel
- Bath oils
- Body scrubs
- Lotions
- Shampoo
- Conditioner
- Hibiscrub
- Perfumes
- Nail polish
- Colourants and hair dyes
- Lip gloss
- Moisturisers
- Toners
- Face creams and face wash
- Glass cleaner
- Kitchen spray
- Floor cleaner
- Antiseptic liquids
- Disinfectants
- Detergents
- Washing up liquid
- Dishwasher liquid
- Rinse aid
- Fabric conditioner
- Fermented drinks
- Antibiotics
- Antiseptic liquids
- Anesthetics
- Biopharmaceuticals
- Biofuels
- Vaccines
- Pesticides
- Cooking oils
- Fruit juice
- Sports drinks
- Vinegar
- Honey
- Spirits
- e-Liquids
- Cordials
- Flavourings
- Weed killer
- Paint
- Solvents
- Motor oils
- Printing inks
- Car polish
- Release agents
- Degreaser
- Rust treatments
- Cutting fluids
- Leather dyes
- Scented candles
- Waterproofing
- Shoe polish
- Adhesives
- Plant food
- Fish food
- Fertilisers
- Diffusers
- Herbicides

Applications



VOLUMETRIC AND PERISTALTIC FILLING TECHNOLOGIES

Specifications

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GEAR PUMP (SINGLE HEAD)

Filling Technology	Positive Displacement Gear Pump
Pump Capacity	1.5, 6, 10 and 17 Litres/Minute (Four Pump Sizes)
Operator Interface	7" Touchscreen (Running Technofill V4.2 Software)
Control System	Dual Core ARM Cortex A9
Pump Drive Motor	800 Watts Servo Drive (Closed Loop)
Connectivity	Ethernet 1x100 Mbit, RS422/485, USB 2.0
Filling Nozzles	Complete range of Plain and Pneumatics Sizes
Dosing Range	5ml to 5 Litres (Optimum)
Construction	Stainless Steel 316, Aluminium 6082, PTFE
Build Standards	cGMP, Machinery Directive 2006/42/EC
Electrical	230v 1pH 50Hz / 110v 1pH 60Hz
Size/Weight	L=58cm x W=18cm x D=63cm Weight=25.3 Kg

PERISTALTIC PUMP (SINGLE HEAD)

Filling Technology	Positive Displacement Peristaltic Pump
Pump Capacities	Up to 6 Litres/Minute (Tube Size Dependent)
Operator Interface	7" Touchscreen (Running Technofill V4.2 Software)
Control System	Dual Core ARM Cortex A9
Pump Drive Motor	800 Watts Servo Drive (Closed Loop)
Connectivity	Ethernet 1x100 Mbit, RS422/485, USB 2.0
Filling Nozzles	Complete range of Plain and Pneumatics Sizes
Dosing Range	0.2ml to 300ml (Optimum)
Construction	Stainless Steel 316, Aluminium 6082, Silicone
Build Standards	cGMP, Machinery Directive 2006/42/EC
Electrical	230v 1pH 50Hz / 110v 1pH 60Hz
Size/Weight	L=60cm x W=18cm x D=63cm Weight=26.1 Kg

EtherCAT

CODESYS

Microsoft Visual C++

Windows Embedded Compact

UL CE FC



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