



# **KALISH**

*Practical Packaging Automation*

## **KALISHTRONIC**

**KT SERIES LIQUID FILLERS  
WITH SANITARY GEAR PUMPS**

*Even after 15 years of operational experience, the KT is continually improved, resulting in the most complete yet uncomplicated filler available today.*

## ***Kalishtronic KT6/KT12 Fillers***

Manufactured since 1981, Kalishtronic fillers operate throughout the world on a wide range of fill volumes and an impressive range of products.

Sanitary stainless steel gear pumps pump product from your reservoir, through s.s. shut-off nozzles into waiting containers with precision fills. (See chart on pg 6.)

Instant recall memories allow storage of 128 fill volume settings for each product.

Free flowing or viscous liquids, suspensions, emulsions and even products with minute particles can be filled into plastic, glass and metal containers ranging in size from a few ml up to 20L (5 gallons) in capacity. (Subject to testing.)







## ***Inline Filler Simplicity and Efficiency from 20-180 BPM***

Diving shut-off nozzles reduce turbulence during filling cycle, eliminating splashing and reducing foam to a minimum. Bottle height and speed of nozzle lift are dialed-in by hand, without tools.

Starkit gating systems speed indexing. When starwheel rotation stops, gating stops. Starwheels machined to match containers are replaced in an instant. (Fully adjustable gating fingers are available to reduce change parts.)

Unstable containers can be filled in pucks, while feed screws can be added for containers that would otherwise shingle.

Additional steripumps can be added to the basic drives in 6, 12, or 24 l/min sizes, further increasing output as your production needs grow. (Maximum of 6 pumps on a KT6 and 12 pumps on a KT12.)



## ***Your #1 Product Should Not Be Changeover***

Today's key to success is manufacturing flexibility. Regardless of line speeds, you can't have flexibility or production line efficiency if you spend most of your time doing changeovers.

At Kalish we have virtually eliminated adjustments opting instead for instant recall memories for product settings, toolless adjustments, simple drop-in neck clamp change parts, and "quick-clean" pump and nozzle designs.

Steripumps and shut-off nozzles are removed from the filler without tools. Pumps, nozzles, hoses and feed tank can be wheeled away intact without spillage (when equipped with optional casters) to a cleaning station.

A second set of pumps, nozzles and tank are available which can be kept clean and ready for installation. In this way, your changeover time between products and container sizes can be as little as 10 minutes.



## Simplified Controls

"Help" is a button we've put on our control panel instead of something you'll hear from your operators. Status lines guide operators through set-up, filling, cleaning and trouble shooting, making fast set-ups easy.

Critical settings are password protected and an RS232 port can be configured for production monitoring or remote downloading of settings from PC Windows® based recipe management software.



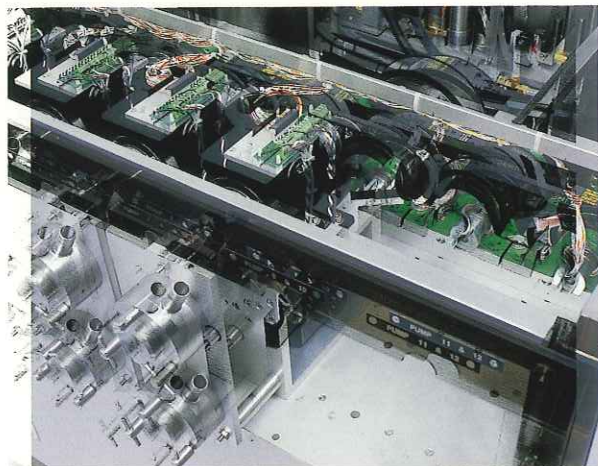
## Powerful Enough to Provide Many Features Not Found on Other Fillers

- "Prime Pumps" : Permits the pumps to be primed all together or one at a time to save product.
- "Recall/Save to Memory" : Storing of 128 fill settings included as standard (option of 512 memories is also available).
- "Run/Stop" : Nozzles conveniently lift up and out of the way whenever the filler is stopped mid cycle.
- "Change fill volumes" : Fine tune fill volumes even while the filler is running or change "all" setting at once.
- "Test Cycle" : Tests your set-up every step of the way.
- "Delay" : Delay nozzles lifting, nozzles at neck or before indexing to clear stringing even on difficult products.
- "Wet Run/Dry Run" : Run complete cycles without product to ensure gating is functioning properly.
- "Partial Dive" : Nozzles dive into container neck only, to save time and increase production.
- "Lock Nozzle Bar" : Allows setting of "Nozzle Bar" in any position for cleaning, flushout, fill test, etc.
- "Service and Diagnostics" : Monitor each sensor, cylinder or solenoid during trouble-shooting.
- "Main Screen" : Continuously displays fill count/RPM/memory and total fills.



## Quality

A heavy duty variable speed drive of 1.5KW (2 HP) is featured on the 6 pump KT6 unit while a 2.25KW (3 HP) variable drive is installed in the 12 pump KT12. Individual clutch/brake units start/stop each pump as required. This constant speed drive eliminates the cyclic effect of standard piston fillers. Rated for a minimum of 5 million cycles each, the clutch/brakes are self adjusting to compensate for wear and easily handle the power required to fill the most viscous products.



*Note:  
All stainless welded frame won't corrode. Ever.*

## Diving Nozzles

Pneumatic nozzle lift system with hydraulic control circuit allows nozzles to dive into containers by gravity. In case of misalignment, containers are not crushed. This also serves as a safety device.

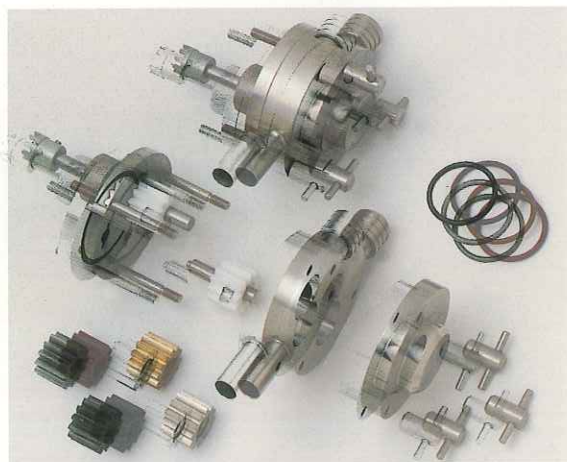
Two speed nozzle lift allows nozzle to raise precisely with product level and then speed up to clear containers once fill is complete.

Safeties such as no dive/no fill/no air and conveyor back-up safeties are all standard.

## Positive Pumping

Positive displacement gear pumps are totally enclosed with no open areas wiped by pistons (i.e. cylinder walls) where product residue can dry or crystallize.

No suction stroke means pumps are always ready to fill. The direct drive pump eliminates magnetic couplings and no internal pump bypasses simplify design.



*Optional gears shown-standard is teflon with 316 SS pump construction.*

## Precision

FILL VOLUME	PRECISION*
5-75ml	±1.0%
76-600ml	±0.5%
601-5000ml	±0.3%

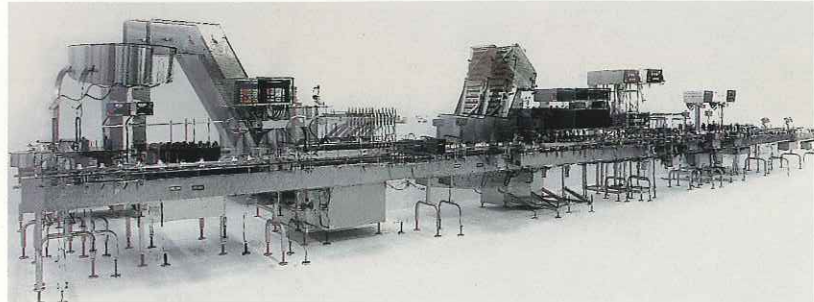
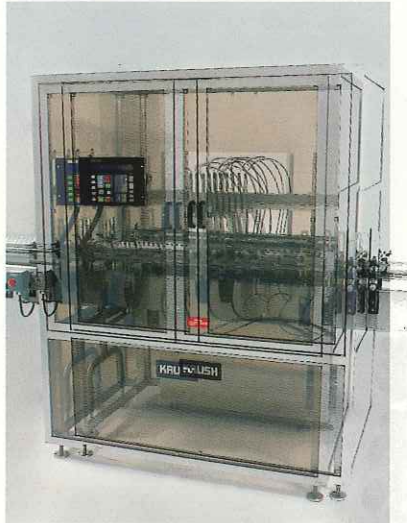
\* Subject to testing of bulk samples.

Actual test results may vary depending on product, container and pump size.



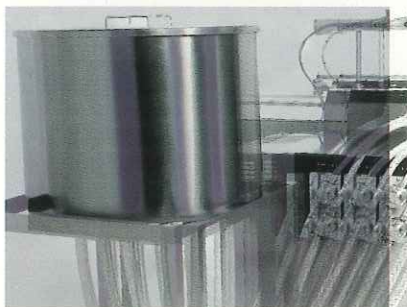
## Total System Approach

The KT Filler system has a superb selection of accessories, making the Kalishtronic the preferred choice for a wide range of specialty applications. Accessories are continually being added, so if you have something special in mind, please don't hesitate to ask.



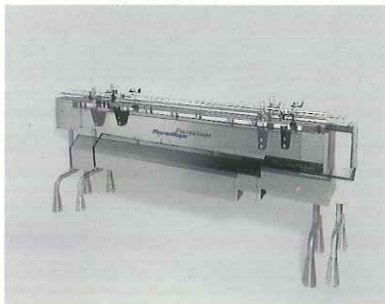
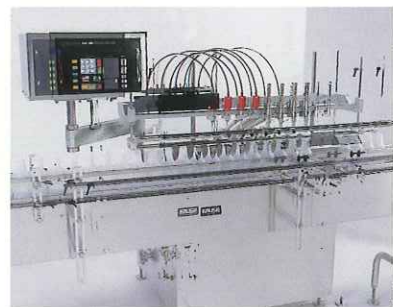
▲ Complete Kalish lines include unscramblers, fillers, cappers, labellers, conveyors, etc. allowing Kalish to guarantee your complete satisfaction.

◀ Guarding systems to meet the most stringent codes are added if required. Interlock systems and remote stop controls complete the package.



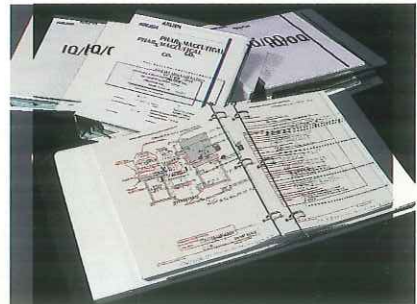
◀ 80 L (20 gallon) constant level tank helps to ensure precise accuracy by delivering product to pump with constant head pressure.

▶ Air cleaning attachments remove any loose particles from containers before filling. Clean and fill on the same machine.



◀ Standard or raised bed Pharmaveyours® enhance any packing line. Add Kalish wireway troughing to tidy installation by enclosing all cables.

▶ Installation Qualification and Operation Qualification documentation as well as IQ/OQ assistance eliminates validation delays.



## More options...

- Pressurized product tanks for very viscous products.
- Final filtering at nozzle tips eliminates any particulate.
- Nitrogen purge before or after filling to protect products.
- Laminar flow enclosures for a self contained clean room environment.
- Recirculation trough for pump priming or for clean-up.
- Foam suck off attachment for very foamy products.
- Hot fill jacketed pump, nozzle and hopper systems with hot water recirculation systems.



# KALISH

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## ***The Complete Line***

Kalish manufactures a full range of equipment for the packaging of liquid and tablet products. Used around the world, Kalish equipment has earned an excellent reputation for engineering elegance, rugged construction and long term reliability. Shorter changeover times and higher product yields are design requirements built into every Kalish machine.

*Kalish has been providing innovative packaging solutions for over 40 years.*

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