

Capmatic Patriot Monoblock

With over 30 years of experience in building the world's finest monoblocks, the Capmatic Patriot continues to surpass today's strict current G.M.P. requirements.

Incorporating proven industry technologies, this full featured multi-station monoblock can be equipped with a variety of filling systems, a selection of panel control systems, an assortment of pumps, a choice of capping equipment and a range of electrical controls.

With its smooth running drive assemblies, heavy duty construction, 316 s.s. contact parts, the Patriot is built for quiet operation, quick disassembly and ease of cleaning.

Backed with our worldwide commitment to service, the Patriot is ideal for filling, plugging, capping or stoppering and aluminum cap crimping. Pharmaceutical, cosmetic and chemical products from 0.5ml - 1000ml (0.02 oz. - 32 oz.) can be handled at speeds up to 70* bottles per minute. Semi-automatic and higher speed versions are also available.

Starwheel safety clutch, gravity driven diving nozzles and strategically positioned guards provide protection for operators. Additional guarding and interlocks, as shown are available to suit your specific requirements. Ask about our optional explosion resistant electrics for operation in hazardous environments.

(* Subject to testing of actual samples.)



Choice of Computer and Electrical Controls

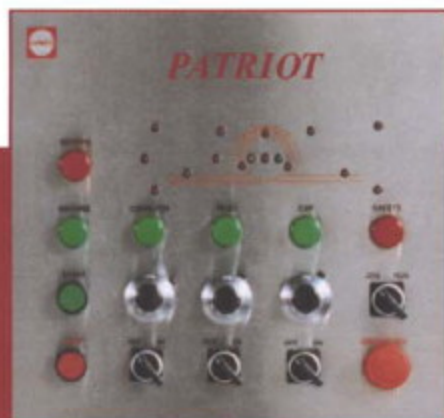
With a selection of optional controllers, the Patriot can be equipped to suit a variety of needs and budgets. Neatly integrated with each machine the control console can be mounted on a rigid tubular pedestal, or conveniently hung from a swivel arm for ready access during setup, or swung out of the way to provide unhindered cleaning of the machine.

PLC based control provides simplicity of operation and troubleshooting, including fail safe no bottle/cap/plug machine stop safety, ensuring package integrity. Built-in LED's are included to indicate operational status. "On/Off" and Emergency Stop switches are standard.

For more demanding filling requirements, the Patriot can be outfitted with a computerized "Compufill" system. Through touch key entries, this digital unit will precisely control the volume of liquid being placed in each container. These volumes can be stored or recalled from memory and adjusted incrementally as the machine is running.

For the ultimate in control and convenience a state-of-the-art touch screen system can be included. This compact unit incorporates all of the features provided by the "Compufill" system but simplifies setups and reduces operator training and monitoring.

For integration and standardization with existing production equipment, the Patriot's internal electronic controls can be configured with Allen Bradley, Omron or any other off-the-shelf PLC control equipment.



▲ Standard panel control



▲ Centralized electrical panel control



◀ Compufill panel control



▲ Touch screen control

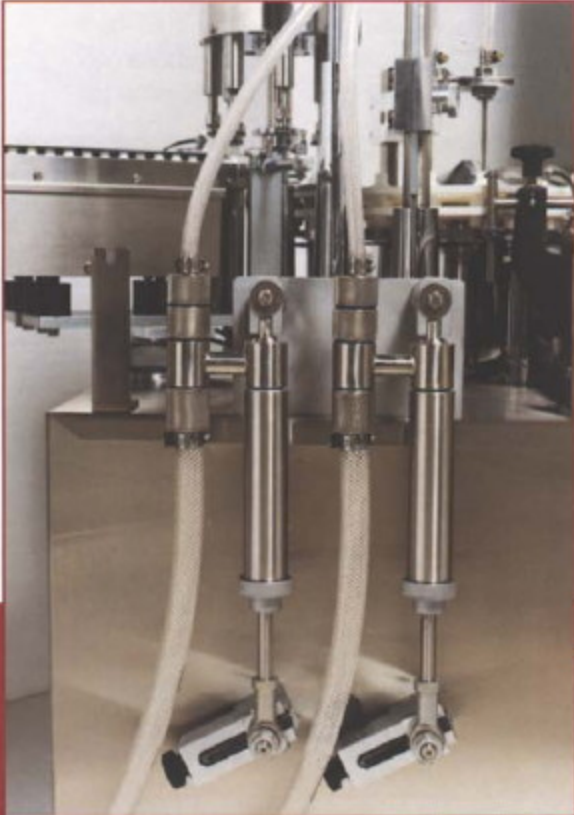
Filling Options and Features

With its open design concept, the Patriot can be built with a range of filling equipment and options. From the manually adjusted sequential filling system to the computerized "Compufill" system, Capmatic can provide a volume selection system that meets your needs. Using precision teflon sealed s.s. pumps in sizes and quantities to suit your production requirements, the Patriot can provide accuracies up to $\pm 0.5\%$, depending on the product. All contact parts can be quickly dismantled for cleaning and autoclaving. For sensitive products and special requirements, the Patriot can be fitted with any of the following pump options:

- s.s cylinder with hard chrome piston
- ceramic piston with s.s. cylinder
- glass cylinder with s.s. piston
- pvc cylinder with pvc piston
- mechanically activated check valve - for viscous pastes & creams
- self-cleaning pumps
- rotary pistons
- piston with "tri-clamp" connection
- check weigher with feedback to Compufill control

Diving nozzles are included as standard to reduce foaming, while shutoff nozzles eliminate drips on stringy products.

▼ Sequential filler with micrometer stroke adjustment.



6 Station Compufill system with pretightening cap placement and torquing station. ▼



Capping Options and Features

To satisfy the broad range of bottle/cap combinations being specified in the packaging industry today, the Patriot can be equipped to handle the following caps:

- screw
- child resistant
- screw-on pilfer proof
- snap caps
- j-caps
- crimped aluminum
- screw aluminum
- tamper evident membranes
- aluminum liner
- eye dropper
- nasal spray
- pump
- rubber stopper

This machine can be supplied with a choice of one or more of the following dedicated cap application systems.

- An air driven cap placement system with single pneumatic torquing station.
- Mechanical driven torquing station with magnetic clutch torque control.
- An air driven pre-spin station to ensure proper thread engagement with separate pneumatic torquing station.
- A gravity fed aluminum cap placement system with heavy duty head for crimping or screw thread forming.
- Heat seal membrane application (for foil liner).
- Plastic pick and place liner applicator.

▼ Filler, heat seal membrane applicator with coder.



▲ Cap being picked up on the fly by the bottle.

▼ Pump inserter with special cap tightener and overcap station.



Multi-Station Bottling, Plugging & Capping

Ease of operation is a design priority. Dedicated change parts can be quickly installed ready for production without further adjustment.

Extremely reliable and precise, the Patriot is especially designed to handle small containers, plugs and caps.

Easily adjustable, hardened, long life head can be used for crimping or screw threading as well as forming R.O.P.P. aluminum caps. Optional screw cap torquing station quickly replaces crimp head, allowing both screw caps and crimp seals to be handled on the same machine.

Adjustable cap pre-spin ensures proper thread engagement, with final torquing at an independent station.

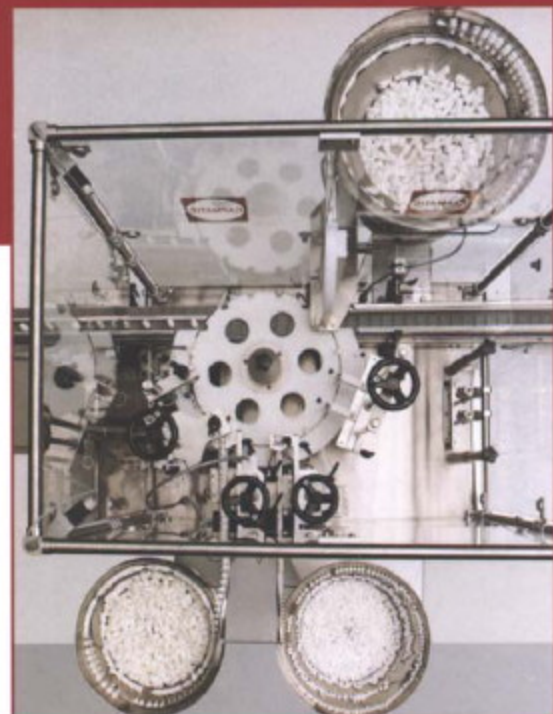
Easy Access Orientation Bowls

Push-in placement system ensures accuracy and is suitable for a wide range of plugs, dropper tips, orifice reducers and caps. Unique pick and place mechanism assures that rubber stoppers are handled by their tops.

An anti-spin device is included as standard for round containers. Stainless steel feeder bowls (standard for all plugs, rubber stoppers, caps and crimp seals) and dedicated s.s. linear feed tracks can all be quickly removed for autoclaving. Optional bulk plug and cap feeders free operator to concentrate on product quality. For unstable bottles, a bottle unscrambler is available that feeds the bottle directly onto the transporting starwheel.



◀ Patriot with bottle unscrambler feeding bottles directly to the starwheel of the monoblock.



Compact footprint to orient, ►
fill, plug and cap the container.

Other Features

- **Numeric Counters** - to ensure repeatable setups of previous production runs.
- **Raised Working Surface with Wrapped Edges** - to protect internal components, motors & pneumatics in case of spills.
- **No Tool Changeovers** - to speed setup and reduce production downtime.
- **Overload Detent System** - automatically stops the equipment in the event a fallen container jams the starwheel.
- **Stainless Steel Enclosed Sensors** - to protect sensors and wiring during cleaning.
- **Interlocked Electrical Access Door** - opens to allow full visibility. Interlocked, the power must be disconnected before the door can be opened.
- **Pneumatic Bottle Clamp** - prevents round bottles from spinning.
- **Stainless Steel, Anodized Aluminum and UHMW Polyethylene Plastic Construction**

Optional Equipment

To accommodate the wide range of production requirements used today, the Patriot can be equipped to satisfy virtually any filling, plugging or capping requirement with one or more of the following options.

- Compufill electronic controls.
- Touch screen panel control.
- Automatic sampling container removal station for quality control.
- Multicolored beacon light to indicate machine status from a distance.
- Choice of 1 to 6 filling stations.
- Reject station for containers with missing product, plugs or caps.
- Euroguard enclosures.
- Interlocked doors.
- Infeed/Outfeed trays.
- Tube centering guide for pump applicators.
- Cap/Bottle elevators.
- Silencer covers for vibratory bowls.
- Crimping head station.
- Nitrogen purge nozzles.
- Vacuum rubber stopper inserter.
- Torque readout display that allows for accurate and calibratable measurement of actual cap and application torque. Includes single processor and 0-50 in.lb. load cell.



◀ For vials and products having special handling requirements, the Patriot can be equipped with manually controlled infeed and outfeed trays. This facilitates the filling of containers with unusual shapes or products that need to be transferred off-line for freeze drying operation.

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