

Cost Saving Automation in Packaging



**SMAC LCA Series
Moving Linear Motors**

- ✓ Long Life (100million+ cycle) = Less Down Time for Maintenance.
- ✓ More production time at high speed operation.
- ✓ Quieter Operation = No noise from the compressed air.
- ✓ Cost Savings = SMAC is completely electric, no air leaks to keep on top of/chase down. No air consumption.
- ✓ Programmable position, speed and FORCE.
- ✓ Feedback of force, position and speed.
- ✓ Electric, Not Pneumatic

SMAC
Moving Coil Actuators

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IMPROVE YOUR PACKAGING WITH SMAC ACTUATORS



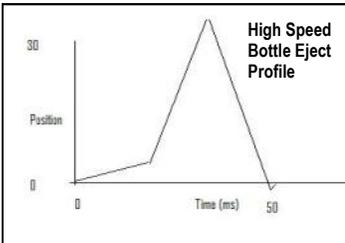
Cup Dispensing - High speed dispensing at **400+ per minute**. Replaces pneumatic cylinders for higher speed, longer life and quiet operation.



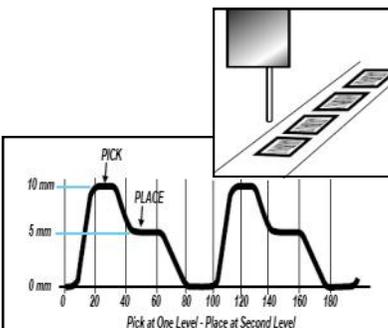
Bottle Filling: A programmable motion profile and speed of the filling process allow you to easily alter the motion profile based upon the material that you are running & the container you are utilizing at the time for the fastest fill time. **Excellent flexibility.**



Deblistering (popping pills) - Automates dispensing of tablets from foil and plastic containers. Key points using SMAC actuators are speed, force control, stroke adjustment and noise. Conventional solenoid is open loop bang-bang between 2 end-stops and not controllable in terms of force, speed or position.



The Bottle/Carton Ejector for Filling Lines - It is not possible to just push these bottles out if the fill level is not correct as the bottle will fall over. First the actuator must slowly make contact and start the bottle moving then do the high speed push after 10mm or so of movement. **Total out and back is 50ms, 1200/min.**



High Speed on the Fly Labeling: The label applicator (SMAC actuator) matches the speed of the conveyor as the product comes through. Adjustable speed and height for the different kind of products and then Soft-Land with controlled force.



Capping of Bottles: Cap rotates to engage slot. Detect and report no/obstructed nozzle. SMAC actuators can adjust force and torque, show the different quality check capabilities such as cap height, torque limit, force required to press in, and even check the clicks on child proof caps.

The ability to do work and verify its accuracy at the same time.

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