

Problems with Air Cylinders?

Solve them by switching to SMAC Electric Actuators

SMAC

Moving Coil Actuators



LCA Series
DC Linear Motors



CAL Series
Electric Cylinder

- ✓ Over 500 million cycles life (>10x that of air cylinders)
- ✓ Patented “Soft-Land” movement stops damage to parts
- ✓ Very repeatable movement profiles: ± 1 msec (10x better than air cylinders)
- ✓ Fully programmable position, velocity and FORCE
- ✓ Acceleration up to 50G
- ✓ Quiet operation. No compressed air required
- ✓ Cost competitive, starting below \$500

www.smac-mca.com

SOLVE YOUR PROBLEMS WITH SMAC

Short life due to high cycle rate?

SMAC profiled moves stop end-of-stroke slamming. Result: >500,000,000 cycles at much higher cycle rates than air cylinders.

Noisy air cylinder's high force impact?

SMAC's patented "Soft-Land" capability and quiet operation eliminates this.

Variation in cycle repeatability slowing down your process?

SMAC actuators' low friction combined with high resolution linear encoders gives you precise movement repeatable in milliseconds and microns.

Mechanical adjustment causing excessive downtime?

SMAC actuators are programmable in position, velocity, and FORCE. This eliminates the mechanical adjustment required when using air cylinders.

IMPROVE YOUR PACKAGING WITH SMAC ACTUATORS

Capping of Bottles

Cap rotates to engage slot. Detect and report no/obstructed nozzle. 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.

Bottle Filling

Excellent flexibility in motion profile and speed of the filling process based upon the material and container size.

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, then Soft-Land with controlled force.

Bottle Rejecting, Diverting, and Multi-lane Sorting

SMAC can reject or divert a single container only, at line speeds over 1200 containers/minute. Movement of container is smooth, fast, and gentle with unique "soft land" feature. Container will not tip over because of force and velocity control.

De-blister

Automates dispensing of tablets gently from foil and plastic containers. Key points of using SMAC actuators are long life, speed, force, and stroke control, along with quiet operation. Pills are not damaged and stay in recovery container due to force control. Zero compressed air required.

Cup Dispensing

High speed dispensing at **400+ per minute**. High speed, longer life and quiet operation.

High Efficiency Liquid Nitrogen Dosing

SMAC's highly repeatable & precision positioning coupled with high speed allows the user to more precisely & repeatedly control the dosing amount. SMAC also allows for easy change over for different dosing requirements. Another advantage is the life of the SMAC as well as the extended life of the dosing valve, as SMAC's unique Soft-Land function prevents damage to the valve when closing which increased valve's life time. These features will increase uptime and increase profitability for end user.

Please contact us at **760-929-7575** or **info@smac-mca.com** for more information.

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