

Electric Solutions To Air Problems

SMAC

Moving Coil Actuators

*Faster Operation
> 2,500 cpm*

*Programmable Position,
Velocity, and Force*

*Longer Life
> 200 Million Cycle Life*

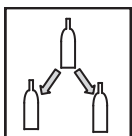
*Easy GUI Set Up / Profile
Change on the Fly*

*Lower Life Cycle Cost
(LCC)*

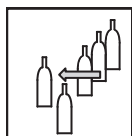
*Actual Size
CBL35C Series
Electric Cylinder Actuator
with Built-in Controller*



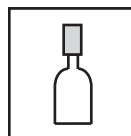
Applications



Sorting
Diverting



Rejecting



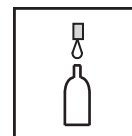
Nitrogen Dosing



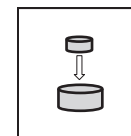
Leak Detection



Labelling



Filling



Assembly

www.smac-mca.com

Increasing productivity & reducing operating costs of your packaging machines

SMAC CBL Series vs. Typical Air Cylinder

Feature	CBL Performance	Air Performance	Benefit
Speed	> 2,500 CPM	<1,200 CPM (higher rates = reduced Durability)	> 1.5x throughput increase
Durability	> 200 Million Cycles	10-20 Million Cycles	CPM = 250 CB = 6,000 hrs. MTBF Air = 1,200 hrs. MTBF
Configurability	Speed, Positions and Force	None, limited to mechanical adjustment	Quick & Easy to set up/change
Energy consumption	Low (24/48v) voltage/amps (1.7A peak)	High cost of Air supply + Electricity for control	>30x lower energy consumption than Air 8 HP of electricity to produce 1 HP of air
Noise level	< 55 dB	Typically > 85 some > 110 dB	Achieves 'Silent' Industrial classification
Repeatability	+/- 1 ms cycle time variance	20 ms cycle time variance	Enables increased throughput & synchronisation of process
Validation	Encoder feedback & control of all movement parameters available	Sensors/Switches cannot control the movement, only set fixed limits	Less destructive movements No separate sensors
In-line Changeover	Reconfigure for different movements in seconds	Change unit or adjust for small variations, in minutes/hours	Reduce change over time and cost
Cost of ownership	One time buy, no maintenance/adjustment	Regular replacement, adjustment/repair, compressor and control valves, tubing etc	Air = Between 5-7x cost of CB moving coils solution
Position Verification	Interface visually displays rod's exact position for setup and evaluation	Location of rod unknown and must be visually debugged	Faster setup and more precise motion profiling

Regional Distributor



SMAC Headquarters
 www.smac-mca.com
 5807 Van Allen Way, Carlsbad, CA 92008
 Tel: 760-929-7575 | Fax: 760-929-7588
 Email: info@smac-mca.com