

# LCA50 Series

## Linear Actuator

High cycle yet controlled low force  
100million+ Cycle Long Life  
Up to 40G acceleration



### LCA50 series

- Single coil type moving coil actuator.
- 100mmx125mmx50mm.
- Stroke: 15mm, 25mm and 50mm.
- Peak Force: Up to 80N.
- Encoder resolution: 20 $\mu$ m, 5 $\mu$ m, 1 $\mu$ m and 0.1 $\mu$ m.
- Fully programmable in force, position and velocity.
- Ideal for high speed and high cycle applications.
- Precise control in position and speed.
- 6 coil model coming soon. Strokes up to 250mm and force up to 150N.

[www.smac-mca.com](http://www.smac-mca.com)

**SMAC**

Moving Coil Actuators

# LCA50 series Linear Actuator

## PART NUMBERING

MODEL	SERIES	STROKE			VOLT		ENCODER	SHAFT	VACUUM	SPRING	MOD							
LCA	50	0	2	5					V		M	O	D					
		5 = DC24V SINGLE COIL			7 = DC48V SINGLE COIL		1 = 1.0µm	5 = 5.0µm	2 = 0.1µm	7 = 20µm	B = BLANK	F = FEMALE	M = MALE	C = CUSTOM	5A=0g payload, vertical, full return 5B=50g payload, vertical, full return 5C=100g payload, vertical, full return 5D=0g payload, vertical, counter balance 5E=50g payload, vertical, counter balance 5F=100g payload, vertical, counter balance			

## SPECIFICATION

DIMENSION:	100mm x 125mm x 50mm
LINEAR STROKE:	25mm (+1/-0 mm)
PEAK FORCE:	40N @ 24VDC, 50N @ 48VDC
FORCE CONSTANT:	30N/A @ 24VDC, 40N/A @ 48VDC
CONTINUOUS FORCE:	
ENCODER RESOLUTION:	20µm, 5µm, 1µm and 0.1µm
ENCODER REPEATABILITY:	+/- 4 encoder count
MOVING MASS:	0.335Kg
TOTAL MASS:	2.157Kg
OPERATING TEMPERATURE:	0 - 65°C

## DIMENSIONS

