LAR31 Series

Linear & Rotary Actuator

Linear (moving coil) & Rotary (brushless motor) motion Prevent common dust problem in the nozzle 100 million life cycle without maintenance

LAR31 Series

Stroke [mm] Peak Force [N] Rotary Encoder Resolution 30 +1/-0 mm 11@1.5A 40,960cout/rev (0.0088°)

RELIABILITY

- The vacuum passage built in the shaft through the rotary motor prevents dust build up in the unit
- > 10,000 units sold
- > 100 million cyclesLinear (moving coil) & Rotary
- (brushless motor) motion

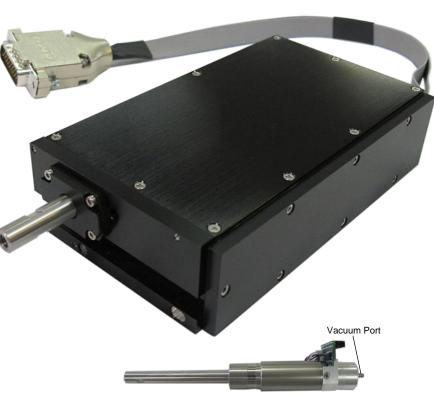
PRECISE FORCE & POSITION CONTROL

- Linear Resolution: 5µm standard (1µm and 0.1µm option)
- Force resolution: 0.04N
 Ability to "Soft-Land" delicate parts to avoid damage

PROGRAMMABILITY

 Programmable force/torque, position, velocity in all axis

Custom shaft & mounting location available



'Direct' vacuum passage runs through the shaft and rotary motor.

Applications











Chip Bonding





dling Screw Driver

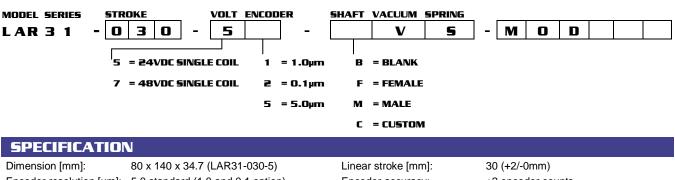
Gauging & Sorting Parts

High Resolution Rotary

Moving Coil Actuators

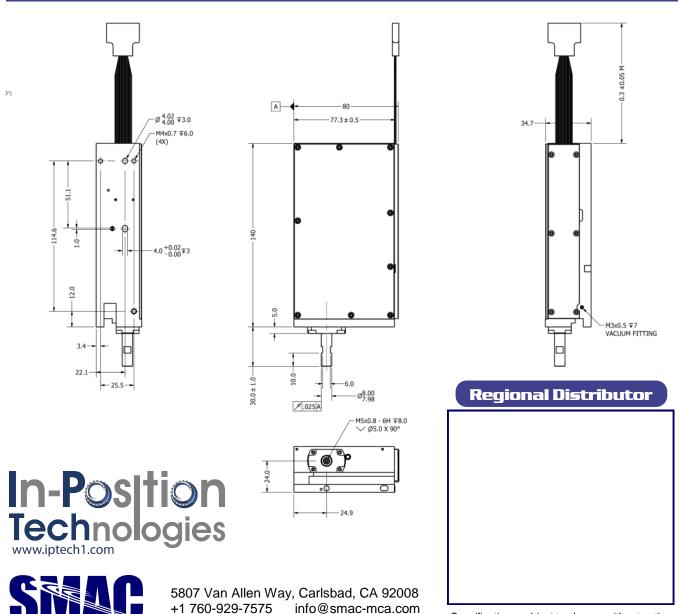
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PART NUMBERING



Dimension [mm]:	80 x 140 x 34.7 (LAR31-030-5)	Linear stroke [mm]:	30 (+2/-0mm)
Encoder resolution [µm]:	5.0 standard (1.0 and 0.1 option)	Encoder accuracy:	±2 encoder counts
Peak force [N]:	11 @ 1.5A (24VDC)	Force constant [N/A]:	7 (24VDC)
Moving mass [kg]:	0.19	Total mass [kg]:	0.84
Operation voltage [VDC]:	24	Operating temperature[°C] :	5 to 40
Shaft run-out [µm]:	≤30	Vacuum port:	M3
Maximum torque [Nm]:	0.06 (brushless motor standard)@3A	Rotary encoder resolution:	40,960 count/rev (0.0088°)

DIMENSIONS (LAR31-030-5)



info@smac-mca.com Specifications subject to change without notice.