

An electric rotary actuator with an integrated electric gripper

Electric rotary gripper

LER10/30-1-XA□□□ Series

SMC's rotary gripper solutions deliver precise, reliable decapping, secure holding, and consistent recapping performance — ensuring smooth, high speed processing even in space constrained, demanding production environments

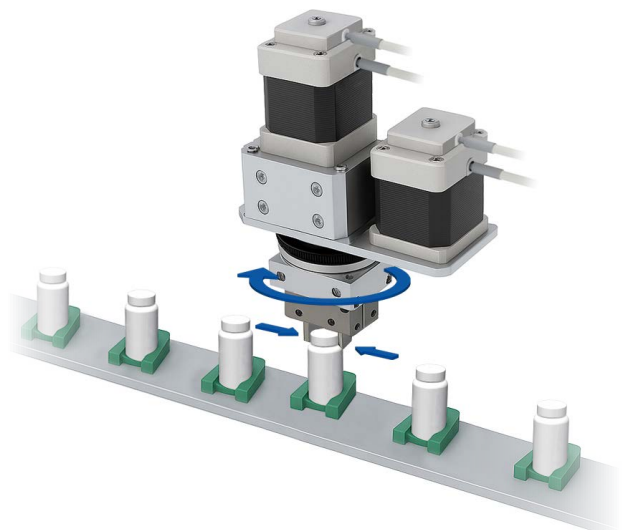


MAIN FEATURES

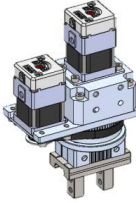
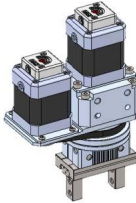
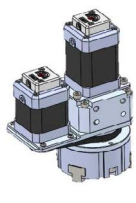
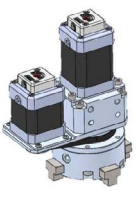
- Available models with 2, 3 or 4 fingers
- Gripping force up to 130 N
- Open and close speed: up to 120 mm/s
- Rotation angle 360° (continuous rotation) and angular speed 1350 °/sec
- Maximum rotation torque 0.65 N·m
- Step motor (servo/24 VDC) with incremental encoder
- Motorless type is available on demand

APPLICATION EXAMPLES

- Pick and place applications
- Lab automation and analytical instruments
- Decapping & recapping: closing and holding for bottle cap closing



SPECIFICATIONS

Part number		LER10-1-XA186	LER30-1-XA195	LER30-1-XA202	LER30-1-XA198
					
Motor size	Gripper	□28S	□42M	□42L	
	Rotary			□42M	
Gripper specifications	Number of fingers	2		3	4
	Stroke/Both side [mm]	10	14	12	12
	Max. gripping force [N]	28	120	130	97
	Max. open and close speed [mm/s]	100		120	
	Max. pushing speed [mm/s]	50			
Rotary specifications	Rotation angle [°]	360			
	Max. moment of inertia [kg·m ²]	0.00007	0.00029		
	Max. rotating torque [N·m]	0.125	0.65		
	Max. angular speed [°/s]	1350			

Please contact your local SMC sales representative for more information, individual pricing or delivery verification.

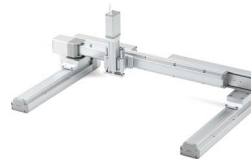
RELATED PRODUCTS



Step motor controller



Applicable fieldbus protocol: EtherCAT, PROFINET, EtherNet/IP™, DeviceNet™, CC-Link and IO-Link compatible.



Lines gantries for e-actuators



LEA Series

- Mounting kit for multi-axis systems (X, Y, Z)
- Easy selection with multi-axis calculation software
- Suitable for line gantries, gantries & cantilever.



Refrigerant and peltier type chillers



Efficient cooling for assays and increased reagent life. Precision control and sub zero temperatures.



Liquid dispenser pump



LSP Series

- Solenoid driven diaphragm type
- Discharge volume: 5-200 µL/shot
- Repeatability: ±1 %.



2/3-port solenoid valve



LVM Series

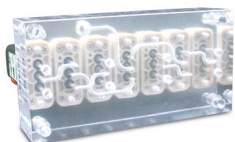
- Applicable fluid: chemical liquids
- Flow rates up to 0.9 l/min (water) and 57 l/min (air)
- Isolated structure.



Solenoid operated pinch valves

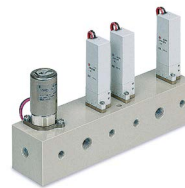


High flow, low power, zero dead volume liquid control.



Composite manifold

- Materials: PMMA, PEI (Ultem), PVC, PC
- Space saving
- Reduced piping and connections
- Reduced wiring.



Custom manifold and engineered subassemblies

- Bonded = Acrylic resin, PVD, PEI, PSU
- Machined = PEEK, aluminium, stainless steel, etc.



Static removing ionizers



Eliminate blockages due to static electricity in component (e.g. cuvette) feeder devices.



Digital pressure and flow sensor



Measure condition, programme values and alarm points. Remote output features.