

LINEAR ROTARY ACTUATORS | LBR/LCR SERIES

The LBR and LCR are slim, stackable Z-theta actuators.



- ✓ Independent linear and rotary motions in one unit
- ✓ Absolute control over force/torque, position, acceleration and velocity
- ✓ Direct drive brushless servo motor
- ✓ Vacuum through shaft prevents dust accumulation

Part Number	Voltage [DC]	Size: LxWxH [mm]	Stroke [mm]	Peak Force [N]	Continuous Force [N]	Force Constant [N/A]	Maximum Current [Amp]	Moving Mass [kg]	Weight [kg]	Peak Torque* [Nm]	Rotary type	Rotary Encoder Resolution	Velocity* [rpm]
LBR40-050-35-3	48	335x160x40	50	100	40	40	2.5	0.9	7.2	0.45	direct	2K	2100
LBR62-050-35-3	48	360x165x62	50	100	40	40	2.5	1.9	8.5	2.2	direct	2K	500/750
LBR62-150-35-3	48	460x165x62	150	100	40	40	2.5	2	11.1	2.2	direct	2K	500/750
LBR62-300-35-3	48	610x165x62	300	100	40	40	2.5	2.1	14.3	2.2	direct	2K	500/750
LCR13-025-55-2	24	155x75x13	25	7	2.8	2.5	3	0.11	0.43	0.047	direct	24K	1K
LCR13-035-15-6	24	180x75x13	35	14	5.6	9.4	1.5	0.15	0.55	0.047	direct	24K	1K
LCR13-050-15-6	24	210x75x13	50	14	5.6	9.4	1.5	0.155	0.62	0.047	direct	24K	1K
LCR16-025-55-2	24	155x75x16	25	7	2.5	2.5	3	0.11	0.5	0.047	direct	24K	1K
LCR16-035-15-6	24	180x75x16	35	14	5.6	9.4	1.5	0.15	0.65	0.047	direct	24K	1K
LCR16-050-15-6	24	210x75x16	50	14	5.6	9.4	1.5	0.155	0.75	0.047	direct	24K	1K
LCR20-025-75-2	48	155x75x20	25	25	10	7	3.6	0.095	0.65	0.047	direct	24K	1K

NOTE: For any SMAC Moving Coil Actuators, the maximum recommended continuous duty current is 600mA supplied to the actuator over a 1 second period. For anything beyond this in terms of current draw or time please consult the factory. We manufacture actuators to suit our customers' requirements. Please call us if you do not find the right actuator in this list.



Options & Modifications (Consult factory for availability)

- Linear encoder resolutions ----- 5µm standard. 1µm optional.
- Shaft ends ----- Male, Female, Blank and Custom (check availability of custom option).
- Return spring ----- Prevents the shaft from dropping during vertical operation when power is cut.
- Vacuum ----- For pick and place applications.
- Extended nose bushing ----- For tighter shaft run-out and higher side load onto the shaft.
- Increase of force & acceleration ----- 48 volt coil and double coil options are available for some units with 24 volt single coil.
- Increase of torque/gear ratio ----- Alternative geared motors are available for some units.
- Rotary encoder resolution ----- Consult factory for higher resolution.
- Increase of force accuracy/lifetime ----- Low-friction linear guide/extra-long preload linear guide.
- M12 connector ----- Option available with CBR series