

LINEAR ACTUATORS | LDL SERIES

The LDL series has been designed as a cost-competitive alternative to pneumatics. The LDL is fully programmable in force, acceleration, position and velocity. It allows you to change product profiles on the fly.



- ✓ Cost competitive
- ✓ Fully programmable in force, position and velocity
- ✓ Graphical User Interface for simple programming

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]
LDL15-010-35-3	48	110x15x70	10	15	6	4.4	3.4	0.07	0.5
LDL25-010-35-6	48	155x25.4x63.5	10	30	12	8.4	3.6	0.1	0.9
LDL25-025-35-6	48	155x25.4x63.5	25	30	12	8.4	3.6	0.1	0.9
LDL25-050-35-6	48	180x25.4x63.5	50	30	12	8.4	3.6	0.11	1.1
LDL25-075-35-6	48	220x25.4x63.5	50	30	12	40	3.6	0.12	1.3
LDL25-100-35-6	48	260x25.4x63.5	10	30	12	8.4	3.6	0.13	1.6
LDL40-025-35-3	48	190x40x120	25	90	36	40	2.5	0.45	4
LDL40-050-35-3	48	190x40x120	50	90	36	40	2.5	0.47	4
LDL40-075-35-3	48	225x40x120	75	90	36	40	2.5	0.49	4.5
LDL40-100-35-3	48	250x40x120	100	90	36	40	2.5	0.51	5.2

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 and 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 ----- Vacuum through the shaft or on the shaft for pick and place applications.
- Increase of force accuracy/lifetime ----- Low-friction linear guide/extra-long preload linear guide.

LINEAR ACTUATORS WITH BUILT-IN CONTROLLER

Cost-competitive electric actuator, LDL series is offered with an integrated controller. This makes the LDL an economical, space saving solution.



- ✓ Built-in Controller
- ✓ Cost competitive
- ✓ Fully programmable in force, position and velocity
- ✓ Graphical User Interface for simple programming

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]
LDL15C-010-35-3	48	160x15x70	10	15	6	4.4	3.4	0.075	0.68
LDL25C-010-35-6	48	180x25.4x63.5	10	30	12	8.4	3.6	0.1	1.1
LDL25C-025-35-6	48	180x25.4x63.5	25	30	12	8.4	3.6	0.1	1.1
LDL25C-050-35-6	48	220x25.4x63.5	50	30	12	8.4	3.6	0.11	1.3
LDL25C-075-35-6	48	260x25.4x63.5	50	30	12	40	3.6	0.12	1.5
LDL25C-100-35-6	48	300x25.4x63.5	10	30	12	8.4	3.6	0.13	1.7
LDL40C-025-35-3	48	190x40x120	25	90	36	40	2.5	0.45	4
LDL40C-050-35-3	48	225x40x120	50	90	36	40	2.5	0.47	4
LDL40C-075-35-3	48	250x40x120	75	90	36	40	2.5	0.49	4.5
LDL40C-100-35-3	48	285x40x120	100	90	36	40	2.5	0.51	5.2

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Options & Modifications (Consult factory for availability)

- Built-in Controller ----- Simple installation and effective use of space.
- Linear encoder resolutions ----- 5µm standard and 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 ----- Vacuum through the shaft or on the shaft for pick and place applications.
- Increase of force accuracy/lifetime ----- Low-friction linear guide/extra-long preload linear guide.

LINEAR ACTUATORS | LCA SERIES

Developed as next generation servo motor based on moving coil technology. Snap-Together design controls tight tolerance stack-up to assure high product quality at a competitive price.



- ✓ Cost effective
- ✓ Built-in lubrication for long operation life
- ✓ High cycle and acceleration
- ✓ IP protection optional

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]
LCA6-010-55-3	24	135x60x6	10	3.5	(*)	2.9	1.2	0.037	0.21
LCA8-010-55-2	24	95x50x8	10	4	(*)	3.2	1.7	0.025	0.16
LCA8-025-15-3	24	110x50x8	25	2.6	(*)	2.2	1.3	0.027	0.18
LCA8-050-15-3	24	135x50x8	50	2.6	(*)	2.2	1.3	0.03	0.22
LCA13-025-55-2	24	155x75x13	25	7	2.8	2.5	3	0.08	0.4
LCA13-035-15-6	24	180x75x13	35	14	5.6	9.4	1.5	0.12	0.52
LCA13-050-15-6	24	210x75x13	50	14	5.6	9.4	1.5	0.125	0.6
LCA16-010-55-2	24	110x60x16	10	6	2.5	4.3	1.5	0.045	0.435
LCA16-010-75-2	48	110x60x16	10	13	5	6.5	1.5	0.045	0.435
LCA16-025-55-2	24	155x75x16	25	7	2.8	2.5	3	0.08	0.47
LCA16-035-15-6	24	180x75x16	35	14	5.6	9.4	1.5	0.12	0.62
LCA16-050-15-6	24	210x75x16	50	14	5.6	9.4	1.5	0.125	0.73
LCA20-025-55-2	24	155x75x20	25	9	3.6	3	3	0.08	0.71
LCA20-025-75-2	48	155x75x20	25	25	10	7	3.6	0.08	0.71
LCA25-010-55-1	24	70x55x25	10	8	3	6	1.5	0.04	0.27
LCA25-010-55-2	24	130x60x25	10	16	6	5.5	3	0.085	0.45
LCA25-010-75-1	48	70x55x25	10	12	5	8	1.5	0.04	0.27
LCA25-010-75-2	48	130x60x25	10	22	9	8	3	0.085	0.45
LCA25-025-15-6	24	130x60x25	25	15	6	13	1.6	0.076	0.55
LCA25-025-35-6	48	130x60x25	25	20.5	8.2	14.5	1.6	0.076	0.55
LCA25-025-55-2	24	130x60x25	25	7.4	2.9	2.5	3	0.076	0.55
LCA25-025-75-2	48	130x60x25	25	9.2	3.6	3	3	0.076	0.55
LCA25-050-15-6	24	155x60x25	50	15	6	13	1.6	0.082	*
LCA25-050-35-6	48	155x60x25	50	20.5	8.2	14.5	1.6	0.082	*
LCA25-100-15-6	24	205x60x25	100	15	6	13	1.6	0.1	*
LCA25-100-35-6	48	205x60x25	100	20.5	8.2	14.5	1.6	0.1	*
LCA25-150-15-6	24	258x60x25	150	15	6	13	1.6	0.12	*
LCA25-150-35-6	48	258x60x25	150	20.5	8.2	14.5	1.6	0.12	*
LCA25-200-15-6	24	310x60x25	200	15	6	13	1.6	0.14	1.3
LCA25-200-35-6	48	310x60x25	200	20.5	8.2	14.5	1.6	0.14	1.3

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]
LCA32-012-75-3	48	100x57x31	12	76	30	13	6	0.076	0.75
LCA50-010-75-2	48	125x50x100	10	130	50	46	2.8	0.43	2.6
LCA50-025-75-1	48	125x100x50	25	50	20	40	1.5	0.335	2.16
LCA50-050-35-6	48	250x115x50	50	90	36	67	1.7	0.665	*
LCA50-050-75-1	48	125x100x50	50	45	18	30	1.6	0.335	2.58
LCA50-050-75-2	48	215x100x50	50	85	34	30	3	0.465	4.34
LCA50-100-35-6	48	300x115x50	100	90	36	67	1.7	0.66	5.7
LCA50-150-35-6	48	350x115x50	150	90	36	67	1.7	0.825	8
LCA50-250-35-6	48	450x115x50	250	90	36	67	1.7	1	14

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LCA6



LCA8



LCA13



LCA16/LCA20



LCA25



LCA32



LCA50



Options & Modifications (Consult factory for availability)

- Linear encoder resolutions ----- 5µm standard. 1µm and 0.1µm optional for most units. Consult factory for availability.
- 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 ----- Vacuum through the shaft or on the shaft 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 force accuracy/lifetime ----- Low-friction linear guide/extra-long preload linear guide.
- Dust/Waterproof ----- IP65/67 protection is available with LCA50 series.

LINEAR ACTUATORS | LBL/MLA/MSA SERIES

The LBL is price competitive solutions for some higher force applications, previously dominated by pneumatic actuators.

The MLA and MSA gauge actuators provide you gauging solutions with consistent, fast and precise control of the process.



- ✓ High force and acceleration
- ✓ Cost effective
- ✓ Far better Gage R&R (Repeatability and Reproducibility)

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]
LBL25-025-35-3	48	175x127x25	25	70	28	31.2	2.5	0.19	-
LBL25-050-35-3	48	200x127x25	50	70	28	31.2	2.5	0.19	-
LBL25-100-35-3	48	280x127x25	100	70	28	31.2	2.5	0.19	2
LBL25-150-35-3	48	310x127x25	150	70	28	31.2	2.5	0.19	3.8
LBL25-200-35-3	48	360x127x25	200	70	28	31.2	2.5	0.21	4.56
LBL40-050-35-3	48	335x160x40	50	100	40	40	2.5	0.9	7.2
LBL600-035-75-6	48	280x245x86	35	1000	400	50	20	2.3	30
MLA8-010-51-2	24	95x50x8	10	4	(*)	3.2	(*)	0.025	0.17
MSA8-010-01-0	5 - 15	95x28x8	10	(*)	(*)	(*)	(*)	0.011	0.054

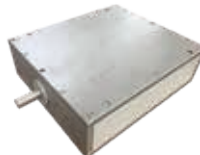
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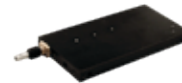
LBL25



LBL40



LBL600



MLA8



MSA8

Gauging Actuator

Options & Modifications (Consult factory for availability)

- Linear encoder resolutions ----- 5µm standard and 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 ----- Vacuum through the shaft or on the shaft for pick and place applications.
- Extended nose bushing ----- For tighter shaft run-out and higher side load onto the shaft.
- Increase of force accuracy/lifetime ----- Low-friction linear guide/extra-long preload linear guide.

LINEAR ACTUATORS | LAL SERIES

SMAC's original series of linear actuators with stroke up to 150mm and a peak force of up to 500N. As with all SMAC actuators, the LAL has independent control of position, speed, and force.



- ✓ Soft-Land™ capability and precise force control
- ✓ High cycle
- ✓ Data feedback

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]
LAL35-025-55-2	24	135x90x35	25	31.5	12.6	15.5	2.9	0.19	1.06
LAL35-025-75-1	48	135x90x35	25	18	7	10	1.3	0.12	0.95
LAL35-050-55-1	24	135x90x35	50	10	4	7	1.6	0.13	1.1
LAL35-050-75-1	48	135x90x35	50	12.5	5	10	1.3	0.13	1.1
LAL35-100-55-1	24	135x90x35	100	6	2.4	3.5	1.6	0.1	1.7
LAL55-050-55-1	24	250x110x55	50	25	10	19	1.3	0.3	3
LAL55-050-75-1	48	250x110x55	50	40	16	24.5	1.8	0.3	3
LAL55-100-55-1	24	250x110x55	100	16	6.4	13	1.3	0.3	3.8
LAL55-100-75-1	48	250x110x55	100	25	10	17	1.8	0.3	3.8
LAL55-150-55-1	24	250x110x55	150	13	5	10	1.3	0.4	4.5
LAL55-150-75-1	48	250x110x55	150	19.5	8	12.5	1.8	0.4	4.5
LAL95-015-75-1	48	90x70x95	15	84	33	53	1.7	0.25	2.2
LAL95-015-75-2	48	147x70x95	15	185	74	58	3.2	0.5	3
LAL95-025-75-2	48	180x70x95	25	162	65	52	3.1	0.58	3.75
LAL95-050-75-1	48	147x70x95	50	65	26	41	1.7	0.25	3
LAL300-030-75-1	48	120x85x120	30	115	46	76	1.6	0.45	4.8
LAL300-030-75-2	48	210x85x120	30	250	100	87.3	3	0.8	7.8
LAL300-050-75-2	48	210x85x120	50	202	80	86	3	0.8	8.8
LAL300-100-75-1	48	210x85x120	100	80	32	43	2	0.7	7.9
LAL500-025-75-2	48	300x140x200	25	500	200	166	3	1.6	26.5
LAL500-050-75-2	48	300x140x200	50	500	200	100	4	1.6	26.5

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Options & Modifications (Consult factory for availability)

- Linear encoder resolutions ----- 5µm standard. 1µm and 0.1µm optional for most units. Consult factory for availability.
- 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 ----- Vacuum through the shaft or on the shaft 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 force accuracy/lifetime ----- Low-friction linear guide/extra-long preload linear guide.
- Dust/Waterproof ----- IP65/67 protection is available with LAL95 series.