

LCR Series Positioners

Light Capacity Rodless
Miniature Linear Positioners



Performance you can count on; value you can bank on

For OEMs building small instruments, the new LCR linear positioner family provides the smallest form factor with unmatched, easy-to-use flexibility.

With any “build-it-yourself” positioner, all the parts required to build a linear motion axis from scratch must be ordered, tracked, received, inventoried, assembled and tested. In contrast, the LCR Series is a completely pre-engineered, pre-tested, ready-to-use positioner solution. This allows OEMs to significantly reduce their time to market with minimized design, procurement, manufacturing, assembly and qualification time or effort.



Based on the proven life science track record of Parker’s MX80 and LP28 Series, the LCR was developed specifically to provide a high-quality, easy-to-use “off-the-shelf” linear actuator.

LCR solutions are ideal for multi-plate and micro-titer tray automation. Rated for 100% duty cycle, the LCR offers smooth quiet motion ideal for keeping instrument noise to a minimum. With selectable travel lengths up to 1000 mm and payloads up to 100 N (25 lbs), the ability to automate laboratory instruments has never been easier.

Bottom line: the LCR’s proven pre-engineered design will significantly reduce your instrument time to market and improve your ROI.



Product Features:

- **Miniature footprint – 22 x 30 or 30 x 40 mm cross-sections**
- **Internal square rail or glider bearing design**
- **IP30 stainless steel strip seal**
- **Low dB lead screw or long travel belt drive**
- **Travel lengths to 1000 mm**
- **Black anodize aluminum for aesthetic appearance**
- **Toe clamps for easy installation**
- **Dowel pin holes for repeatable mounting**
- **Link shaft for dual driven belt units**
- **Multiple motor mount options accommodates NEMA 8, 11 and 17 steppers and NEMA 16 servo motors**
- **Adjustable home and limit sensors**

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LCR Series

Miniature Screw- & Belt-Driven Designs

The new LCR Series provides an unrivaled set of product options, ranging from drive technologies to bearing designs. Users can choose between low dB, fine resolution lead screws or high speed belt drive options in multiple package sizes. Along with drive train options, users have a choice of high acceleration internal glider bearings or rigid internal square rail bearings for higher load support.

Other product features include product protection with a stainless steel sealing strip, dowel pin holes for repeatable installation, rotary encoders for positional feedback, stepper or servo motor options, flush mount limit sensors for minimized footprint, and easy to use toe clamps for product installation.

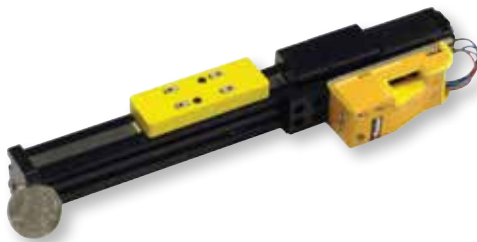


LCR Performance

Model	Belt-Driven		Screw-Driven	
	LCR22	LCR30	LCR22	LCR30
Width x Height (mm)	22 x 30	30 x 40	22 x 30	30 x 40
Repeatability (\pm mm)	0.5	0.5	0.1	0.1
Max. Normal Load ¹ (N)	45	100	45	100
Max. Axial Load (N)	25	45	25	60
Max. Speed ² (mm/s)	600	900	20	150
Max. Travel Length (mm)	500	1000	150	600
Stainless Steel Seal	•	•	•	•
Limit Sensor Options	•	•	•	•
Internal Rail Options	•	•	•	•
Screw Lead Options (mm/rev)	—	—	0.5, 2	2, 10

¹ Specifications for square rail design, bushing version reduces normal load to 50% value.

² Specifications for fast screw lead, the fine screw lead will reduce maximum speed.



Optional P2™ drive makes a complete easy-to-use motion solution.

Pairing the LCR with the new P2 drive, instrument builders eliminate another costly design component and complete their motion package with a single vendor, easy to use solution.

The P2 drive is only 1" x 1" x 2" in size, but packs 2 A of current at 24 VDC to provide unmatched power density for simple step and direction motion.



All published product specifications are subject to change without notice.

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