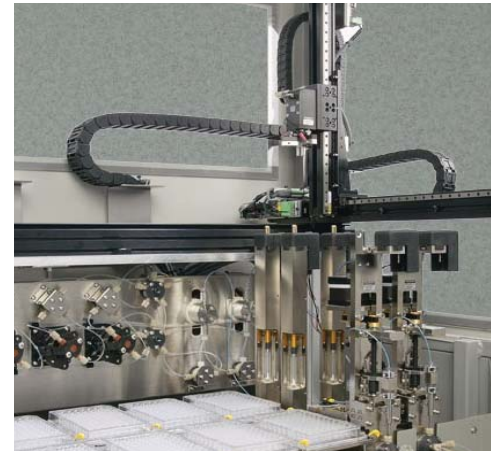


# LCR Series Positioners

## Miniature Linear Positioners



### The LCR Value:

For OEMS building small instruments wanting to bring their product to market faster, the LCR is a linear positioner family that provides the smallest form factor with easy to use flexibility unmatched by most competitive products.

With the LCR Series pre-engineered positioners, OEMs can significantly reduce their time to market with minimized design, procurement, manufacturing, assembly, and qualification of the many parts necessary to build a linear motion axis from scratch. With “build it yourself” linear axes, all the different parts required to build the axes must be ordered, tracked, received, inventoried, assembled, and tested. The LCR is a pre-tested, ready to use solution. For more information, please contact:



### Contact Information:

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### Product Features:

- Miniature footprint with 22, 30, and 45 mm cross sections
- Internal square rail or glider bearing design
- 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
- Linkshaft for dual driven belt units
- Adjustable home and limit sensors



ENGINEERING YOUR SUCCESS.

# LCR Series Data

Building on a proven life science track record with the MX80 and LP28 series, Parker developed an easy to use, high quality, “off-the-shelf” linear actuator for payloads up to 25 lbs (100 N) at travel lengths up to 1m. This new LCR Series provides an unrivaled set of product options ranging from drive technologies to bearing designs.

With the LCR users can choose between low dB, fine resolution lead screws or high speed belt drive options in the same package size. Along with drive train options, users select a high acceleration internal glider bearing or a rigid internal square-

|                               |        | LCR22-BELT-SR | LCR22-SCREW-SR | LCR30-BELT-SR | LCR30-SCREW-SR |
|-------------------------------|--------|---------------|----------------|---------------|----------------|
| Repeatability (+/-)           | mm     | 0.5           | 0.1            | 0.5           | 0.1            |
| Max. Normal Load <sup>1</sup> | N      | 45            | 45             | 100           | 100            |
| Max. Axial Load               | N      | 25            | 25             | 45            | 60             |
| Max. Speed <sup>2</sup>       | mm/s   | 600           | 20             | 900           | 150            |
| Max. Travel Length            | mm     | 500           | 150            | 1000          | 600            |
| Width x Height                | mm     | 22 x 30       | 22 x 30        | 30 x 40       | 30 x 40        |
| Limit Sensors                 |        | Opt.          | Opt.           | Opt.          | Opt.           |
| Internal Rails                |        | Opt.          | Opt.           | Opt.          | Opt.           |
| Stainless Steel Seal          |        | Yes           | Yes            | Yes           | Yes            |
| Screw Lead Options            | mm/rev | -             | 0.5   2        | -             | 2   10         |

1. Specifications for square rail design, bushing version reduces normal load to 25% value.

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

The LCR solutions are ideal for multi-plate and microtiter tray automation.

Also available is the new **ion** drive for a complete motion package.



## Miniature Screw & Belt Drive Designs

rail bearing 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.

## Reduced time to market, increased ROI

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, the ability to automate laboratory instruments has never been easier. With proven engineered designs, the LCR will reduce your instrument time to market while increasing your ROI.

## The **ion** drive, more power, small package.

Pairing the LCR with the NEW **ion** drive, instrument builders can now eliminate another costly design component utilizing a complete, single vendor, easy to use solution. With 2 Amps of current at 24 VDC in a 1" x 1" x 2" size, the **ion** drive offers unmatched power density for simple step and direction motion.

