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LCR Series

Light Capacity Rodless Miniature Linear Positioner



ENGINEERING YOUR SUCCESS.

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Parker Hannifin

The global leader in motion and control technologies

A world class player on a local stage

Global Product Design

Parker Hannifin has more than 40 years experience in the design and manufacturing of drives, controls, motors and mechanical products. With dedicated global product development teams, Parker draws on industry-leading technological leadership and experience from engineering teams in Europe, North America and Asia.

Local Application Expertise

Parker has local engineering resources committed to adapting and applying our current products and technologies to best fit our customers' needs.

Manufacturing to Meet Our Customers' Needs

Parker is committed to meeting the increasing service demands that our customers require to succeed in the global industrial market. Parker's manufacturing teams seek continuous improvement through the implementation of lean manufacturing methods throughout the process. We measure ourselves on meeting our customers' expectations of quality and delivery, not just our own. In order to meet these expectations, Parker operates and continues to invest in our manufacturing facilities in Europe, North America and Asia.

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Filderstadt, Germany
Milan, Italy

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Wuxi, China
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North America

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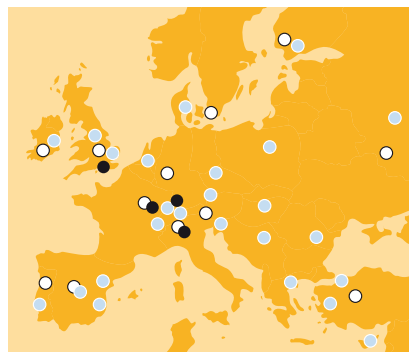
For contact information, please refer to the Sales Offices on the back cover of this document or visit www.parker.com



Milan, Italy



Littlehampton, UK



- Electromechanical Manufacturing
- Parker Sales Offices
- Distributors



Dijon, France

Light Capacity Rodless Linear Positioner - LCR Series

Overview

Description

For OEMs looking to automate light payloads, the LCR (Light Capacity Rodless) linear positioner family provides the smallest form factor with unmatched, easy-to-use flexibility.

LCR was developed specifically to provide a high-quality, easy-to-use, off-the-shelf linear actuator. 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, the ability to automate laboratory instruments has never been easier.



Features

- Miniature footprint - 30x40 mm cross-section
- Internal square rail or glider bearing design
- 100 % duty cycle
- IP30 stainless steel strip seal
- Low noise leadscrew drive
- Long travel belt drive
- Travel lengths to 1000 mm
- Attractive black anodize finish
- Extruded aluminum body incorporates dovetail mounting, T-slots and belt return
- Toe clamp mounting for easy installation
- Dowel pin holes in the LCR30 carriage for repeatable mounting
- Multiple motor mount options accommodate NEMA 11, 17 and 23 steppers
- Flush-mounted fully adjustable limit sensors

Application

- Life science
- General-purpose applications

Technical Characteristics - Overview

LCR - Linear Positioner	Screw-Driven	Belt-Driven
Model	LCR30	
Width x Height [mm]	30x40	
Repeatability [mm]	±0.1	±0.5
Max. Normal Load [N]	100	
Max. Axial Load [N]	60	45
Max. Speed [mm/s]	150	900
Max. Travel Length [mm]	600	1000
Screw Lead Options [mm/rev]	2, 10	-
Conformity	CE, RoHS	

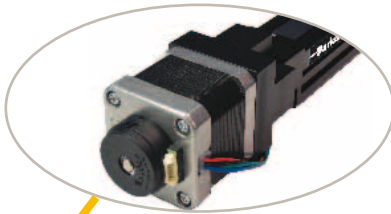


Product Design

The most motor mounting options standard with more options easily available



Encoder options for position verification and position maintenance



Rugged internal square rail re-circulating bearing or quiet glider bearing for lighter payload needs



Machined aluminum carriage mounting surface with locating holes

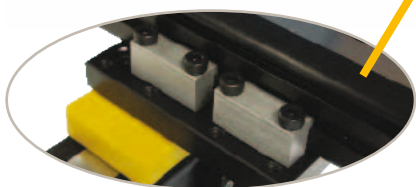
Stainless steel sealing strip for best in class bearing and drive train protection

Minimal instrument/machine size with flush mount limit sensors

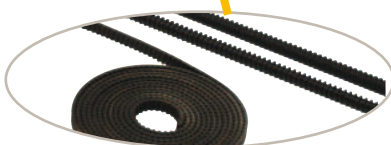


A unique profile sizes (30 mm wide) provide high rigidity for minimal deflection along with "T" and dovetail slots

Quick and easy mounting options with toe clamps or standard multi-axis connection kits



Flexible drive train options with multiple screw leads for high thrust or reinforced belt drive for highest speeds



Easily adjustable belt tension system reducing maintenance and down time

Tailored to Meet Every Requirement

The LCR is an easy-to-configure off-the-shelf solution with a virtually unlimited array of standard configurations available.

If your application demands a special design, Parker takes the next step and customizes the product to meet your required specification. Common modifications include:

- Clean room components
- Special tool plates
- Mounts for 3rd party motors
- Maximum height or length modifications for space constraints
- Smaller 22x30 mm profile size
- And much more

Whether you need blue anodize or a design with a custom carriage for larger than standard payloads, or anything else, Parker excels at application solutions and will modify the LCR to fit your specific needs.



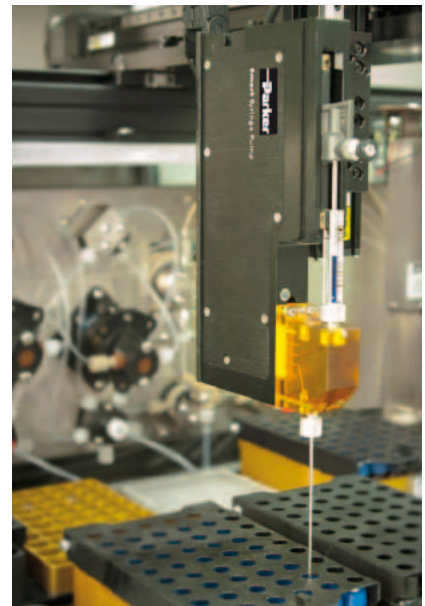
Ideal for High-Volume, Light-Capacity, Electrically-Controlled Motion

Life science applications:

- Mass spectroscopy
- Course microscopy
- Analytical instruments
- Laboratory automation
- Micro titer automation
- MALDI plate automation
- Liquid handling
- Syringe pumps

General-purpose applications:

- Point-of-purchase kiosks
- Adjustable guide widths for conveyor lines
- Storage and retrieval
- Part shuttling
- Light payload automation conversion from rodless pneumatics to electric
- General automation for any ≤ 10 kg payload with basic repeatability requirements



The LCR's proven pre-engineered design will significantly reduce your instrument time to market and improve your Return on Investment (ROI).



Technical Characteristics

Technical Data - LCR Screw-Driven

LCR Screw-Driven

Type	Unit	LCR30	
		S (Square Rail)	B (Bushing)
Bidirectional Repeatability	[mm]	±0.1	±0.2
Duty Cycle	[%]	100	100
Max. Acceleration*	[m/s ²]	20	20
Normal Load		90	45
Moment Load	[Nm]		
Roll		2.6	0.3
Yaw		6.5	0.8
Pitch		8.2	1.5
Max. Axial Load	[N]	70	70
Screw Efficiency	[%]		
2.0 mm Lead		50	50
10.0 mm Lead		70	70
Breakaway Torque	[mNm]	30 (2 mm lead) 45 (10 mm lead)	40 (2 mm lead) 90 (10 mm lead)
Screw Diameter	[mm]	6.4	6.4
Coefficient of Friction	-	0.02	0.10
Base Moment of Inertia	[mm ⁴]		
I _{xx}		39 778	36 162
I _{yy}		46 273	42 066

* Do not exceed allowable axial and moment loading.

LCR30 Screw-Driven - Performance by Travel Length

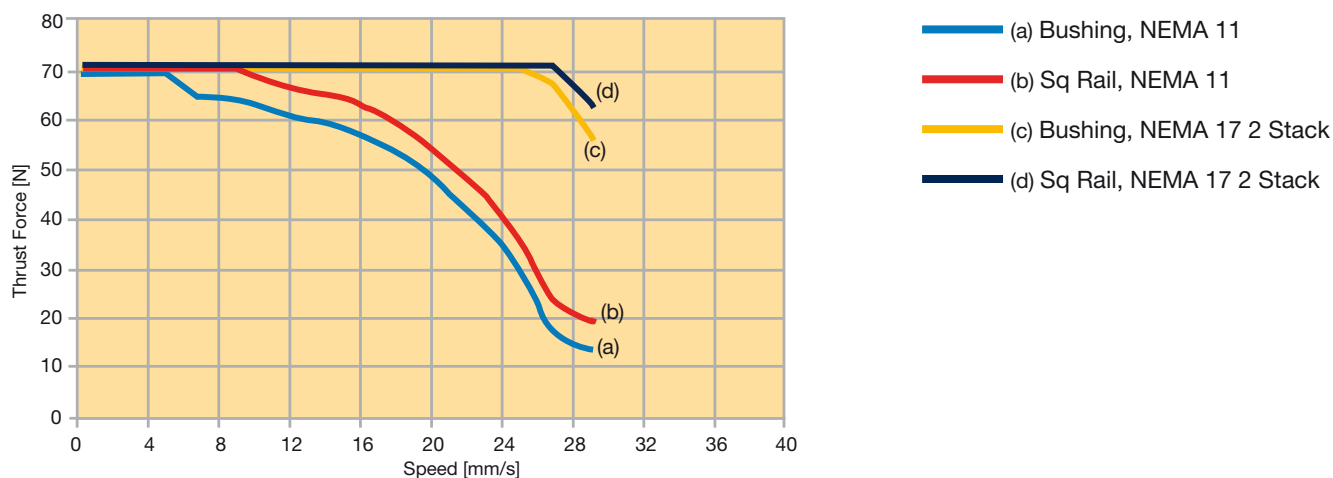
Travel [mm]	Max. Screw Speed* [min ⁻¹]	Max. Linear Speed		Table Weight		Input Inertia	
		[mm/s]		[kg]		[kgmm ²]	
		2.0 mm lead	10.0 mm lead	M11	M17	2.0 mm lead	10.0 mm lead
25	900	30	150	0.70	0.80	0.411	0.526
50	900	30	150	0.74	0.84	0.442	0.557
75	900	30	150	0.78	0.88	0.48	0.588
100	900	30	150	0.83	0.93	0.51	0.619
125	900	30	150	0.87	0.97	0.536	0.650
150	900	30	150	0.91	1.01	0.567	0.682
175	900	30	150	0.95	1.05	0.599	0.713
200	900	30	150	0.99	1.09	0.63	0.744
225	900	30	150	1.03	1.13	0.661	0.775
250	900	30	150	1.07	1.17	0.692	0.806
275	900	30	150	1.12	1.21	0.723	0.837
300	900	30	150	1.16	1.26	0.754	0.868
325	900	30	150	1.20	1.30	0.785	0.899
350	900	30	150	1.24	1.34	0.816	0.931
375	840	28	140	1.28	1.38	0.847	0.962
400	720	24	120	1.32	1.42	0.879	0.993
425	660	22	110	1.36	1.46	0.911	1.024
450	600	20	100	1.40	1.50	0.941	1.056
475	540	18	90	1.45	1.54	0.972	1.086
500	540	18	90	1.49	1.59	1.003	1.117
525	480	16	80	1.53	1.63	1.033	1.149
550	420	14	70	1.57	1.67	1.065	1.180
575	420	14	70	1.61	1.71	1.097	1.211
600	360	12	60	1.65	1.75	1.128	1.242

* Maximum Screw Speed of 900 min⁻¹ is based upon stepper motor resonance zones, for higher speeds please consult product maintenance manual.

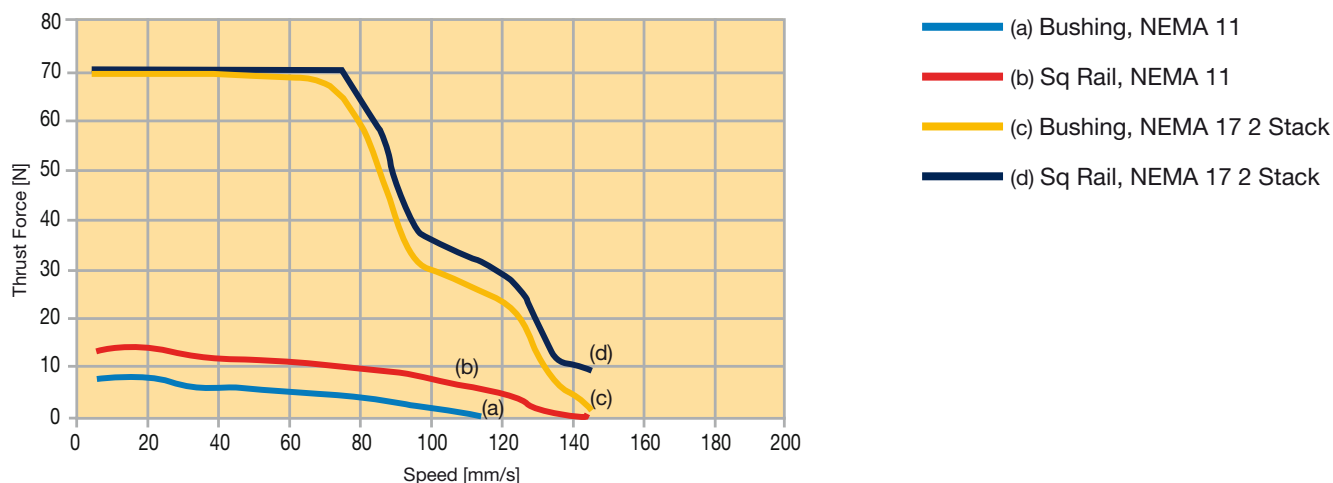
Performance Curves - LCR Screw-Driven

Linear Speed - Force Performance

LCR30 Screw-Driven (2 mm lead)



LCR30 Screw-Driven (10 mm lead)



* Maximum Screw Speed of 900 min⁻¹ is based upon stepper motor resonance zones, for higher speeds please consult product maintenance manual.

Please see "Technical Data - LCR Screw-Driven" (page 8) for: Critical speed limitations for specific stroke length maximum speeds.

Technical Data - LCR Belt-Driven

LCR Belt-Driven

Type	Unit	LCR30	
		S (Square Rail)	B (Bushing)
Bidirectional Repeatability	[mm]	±0.2	±0.5
Duty Cycle	[%]	100	100
Max. Acceleration*	[m/s ²]	20	20
Max. Linear Speed	[mm/s]	870	870
Normal Load	[N]	90	45
Moment Load	[Nm]		
Roll		2.6	0.3
Yaw		6.5	0.8
Pitch		8.2	1.5
Max. Axial Load	[N]	45	45
Linear Travel/Rev	[mm]	58.0	58.0
Breakaway Torque	[mNm]	85.0	85.0
Coefficient of Friction	-	0.02	0.10
Base Moment of Inertia	[mm ⁴]		
Ixx		39 778	36 162
Iyy		46 273	42 066

* Do not exceed allowable axial and moment loading.

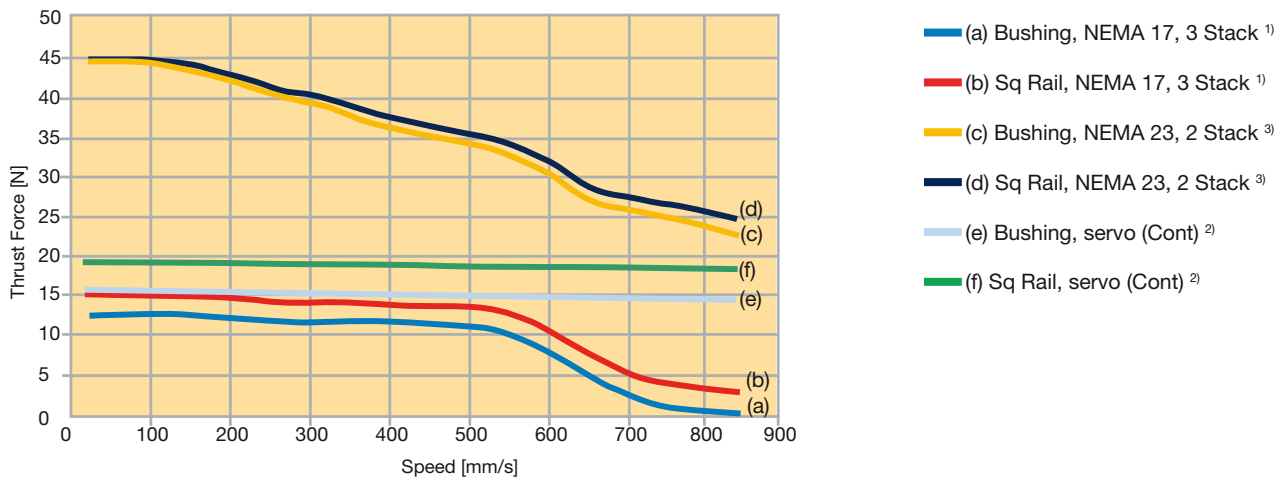
LCR30 Belt-Driven Performance by Travel Length (no load)

Travel [mm]	LCR30		
	Table Weight [kg] M23	Total Inertia Reflected [kgmm ²]	
		no load	2.5 kg load
50	1.27	3.145	216.1
75	1.30	3.189	216.2
100	1.34	3.232	216.2
125	1.37	3.276	216.3
150	1.41	3.319	216.3
175	1.44	3.363	216.3
200	1.48	3.406	216.4
225	1.52	3.500	216.4
250	1.55	3.493	216.5
275	1.59	3.536	216.5
300	1.62	3.580	216.6
325	1.66	3.623	216.6
350	1.69	3.667	216.6
375	1.73	3.710	216.7
400	1.76	3.754	216.7
425	1.80	3.797	216.8
450	1.83	3.841	216.8
475	1.87	3.884	216.9
500	1.90	3.927	216.9
525	1.94	3.980	217.0
550	1.97	4.014	217.0
575	2.01	4.058	217.0
600	2.04	4.101	217.1
625	2.08	4.145	217.1
650	2.11	4.188	217.2
675	2.15	4.232	217.2
700	2.18	4.275	217.3
725	2.22	4.319	217.3
750	2.25	4.362	217.3
775	2.29	4.405	217.4
800	2.32	4.449	217.4
825	2.36	4.492	217.5
850	2.40	4.536	217.5
875	2.43	4.579	217.6
900	2.47	4.623	217.6
925	2.50	4.666	217.6
950	2.54	4.710	217.7
975	2.57	4.753	217.7
1000	2.61	4.796	217.8

Performance Curves - LCR Belt-Driven

Linear Speed - Force Performance

LCR30 Belt-Driven



¹⁾ Performance with Parker stepper drive running at 24 VDC

²⁾ Performance with Parker servo drive

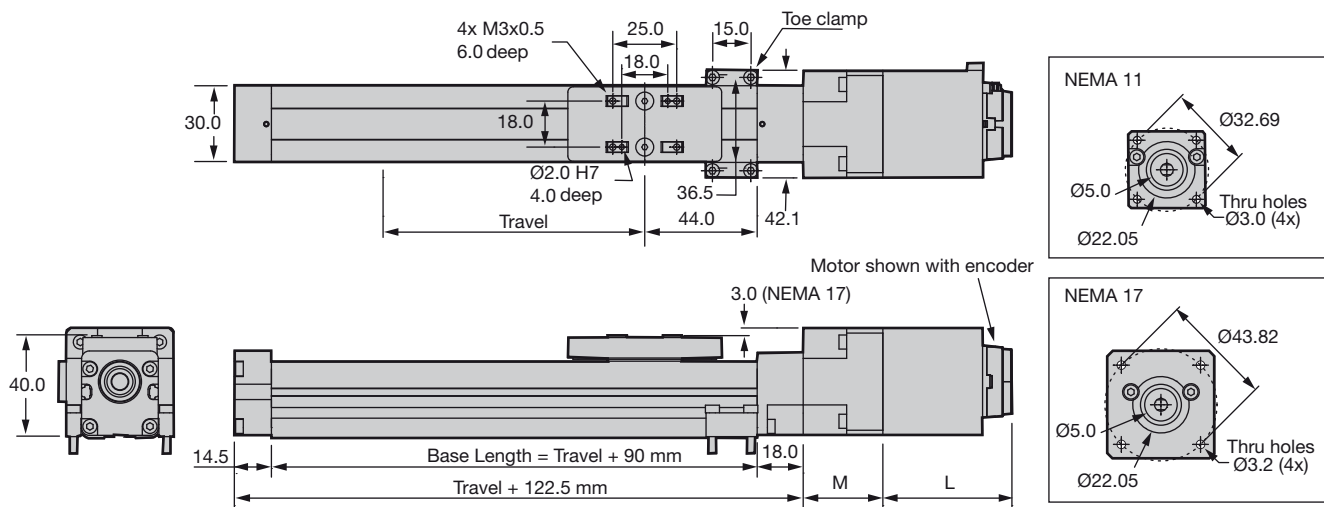
³⁾ Performance with Parker ViX drive run at 48 VDC

Dimensions

LCR - Leadscrew-Driven

LCR30 Leadscrew-Driven

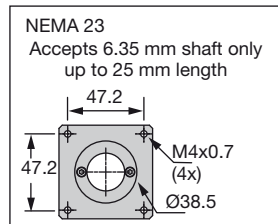
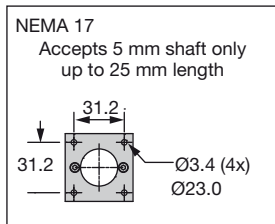
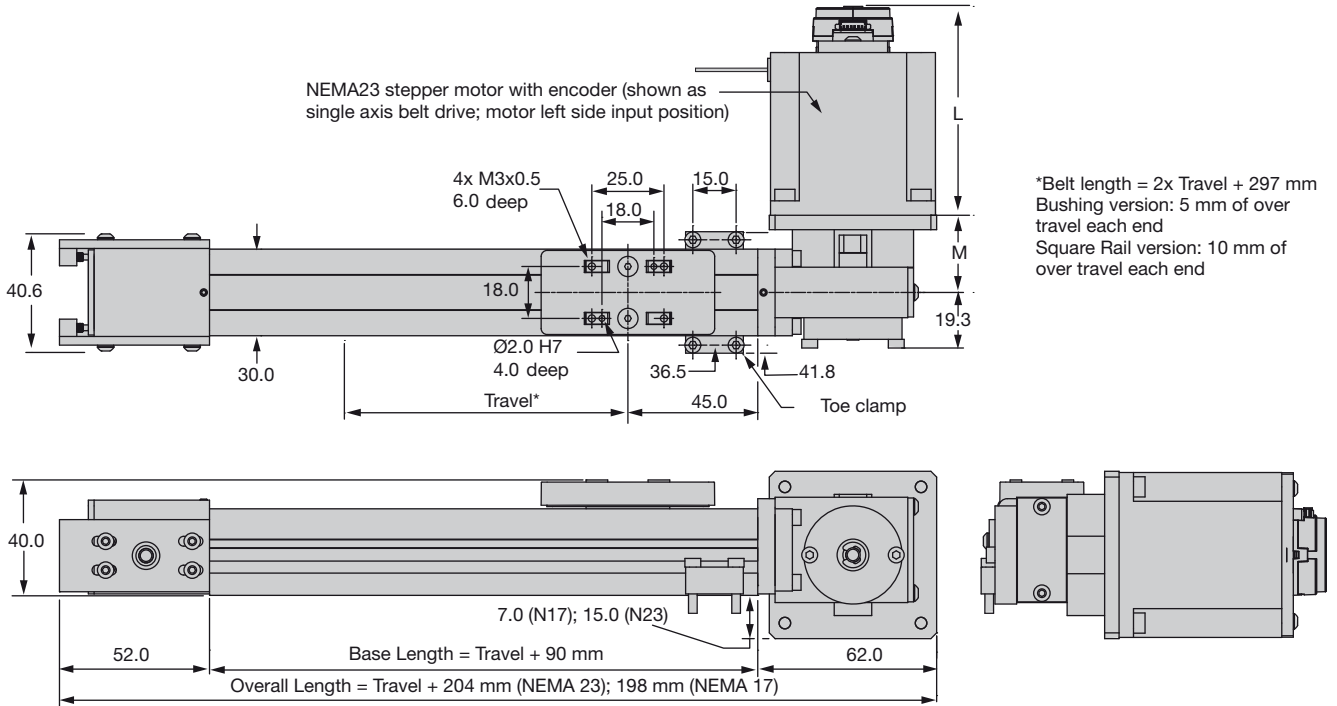
Dimensions [mm]



Motor option	M	L	Description
N11E0	30.6	0	NEMA 11 Motor Mount
M11E0	30.6	62.5	NEMA 11 Stepper Motor
M11E1/E2	30.6	62.5	NEMA 11 Stepper Motor with Encoder
N17E0	31.2	0	NEMA 17 Motor Mount
M17E0	31.2	51.0	NEMA 17 Stepper Motor
M17E1/E2	31.2	51.0	NEMA 17 Stepper Motor with Encoder

LCR - Belt-Driven

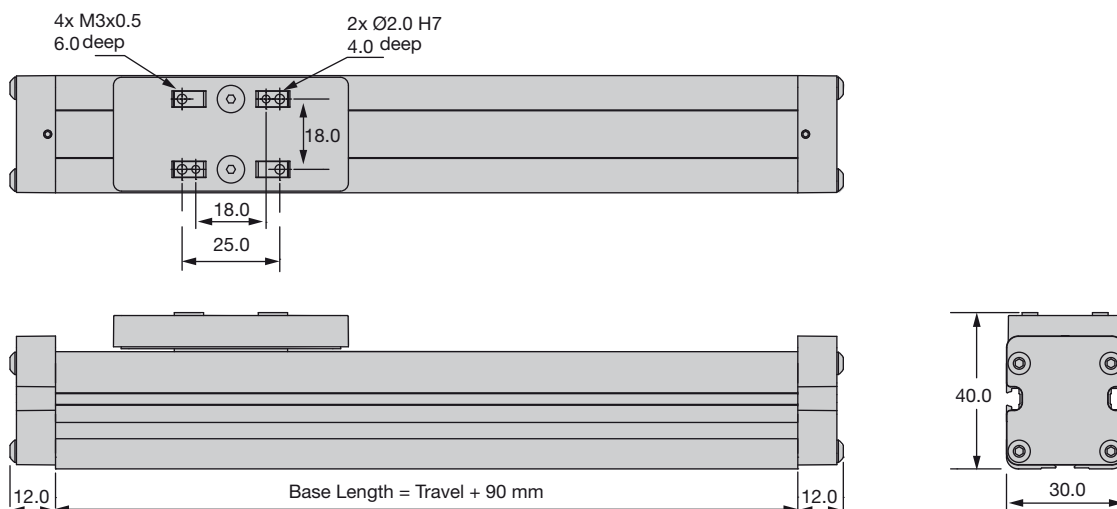
LCR30 Belt-Driven



Motor option	M	L	Description
M23E0	34.3	73.0	LV232 NEMA 23 Stepper Motor
M23E1	34.3	73.0	LV232 NEMA 17 Stepper Motor with 400 Count Encoder
M23E2	34.3	73.0	LV232 NEMA 17 Stepper Motor with 500 Count Encoder

Idler Unit

LCR30 Idler (Square Rail Models only)



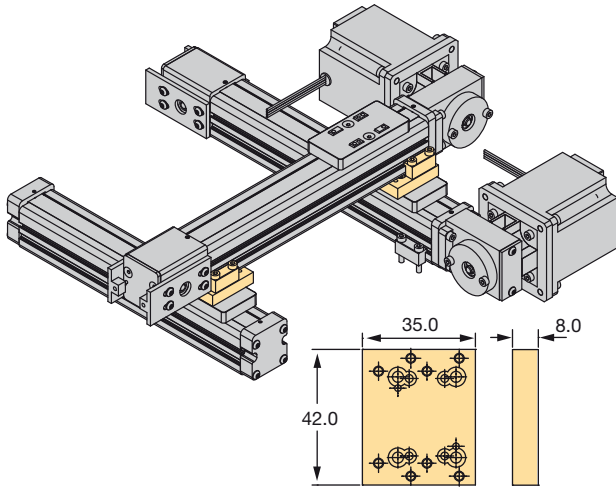
Accessories and Options

X-Y and X-Z Brackets

Dimensions [mm]

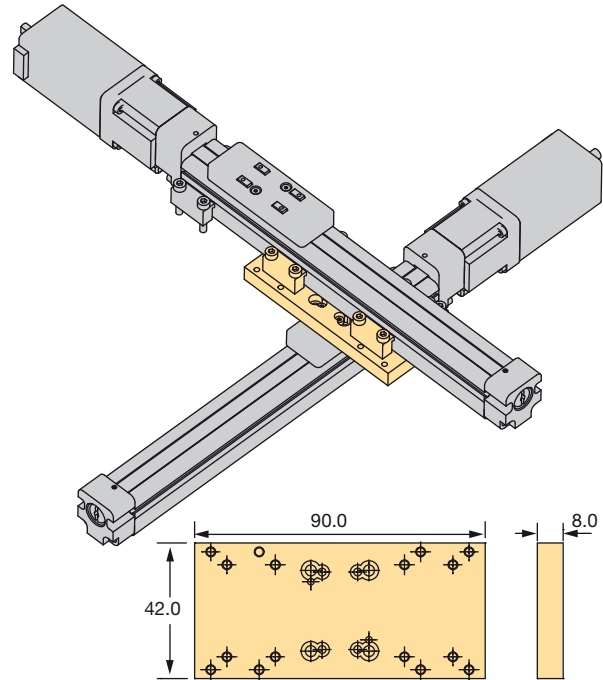
X-Y Bracket for LCR30 (Belt-Driven Units)

Part number: 002-3274-01
(includes two toe clamps with fasteners).



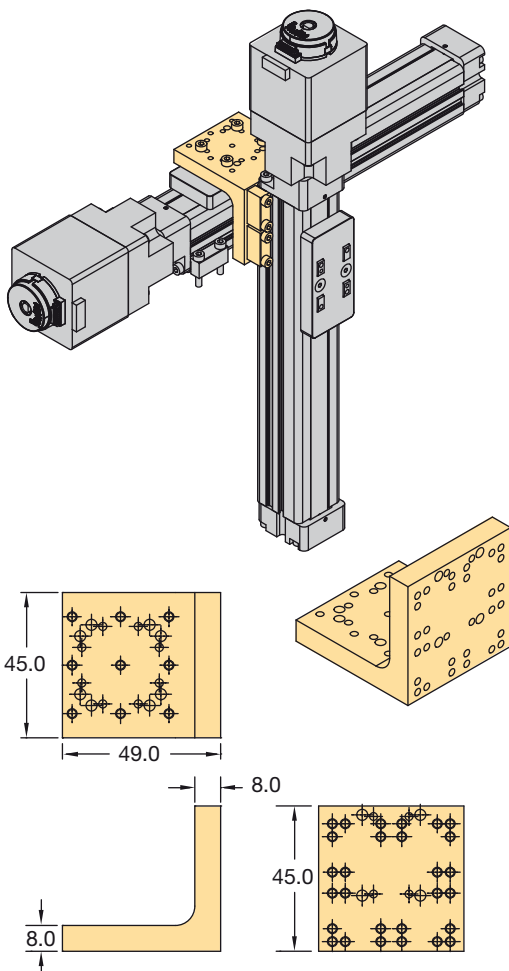
X-Y Bracket for LCR30 (Screw-Driven Units)

Part number: 002-3272-01 (includes four toe clamps with fasteners).



X-Z Bracket for LCR30 (All Units)

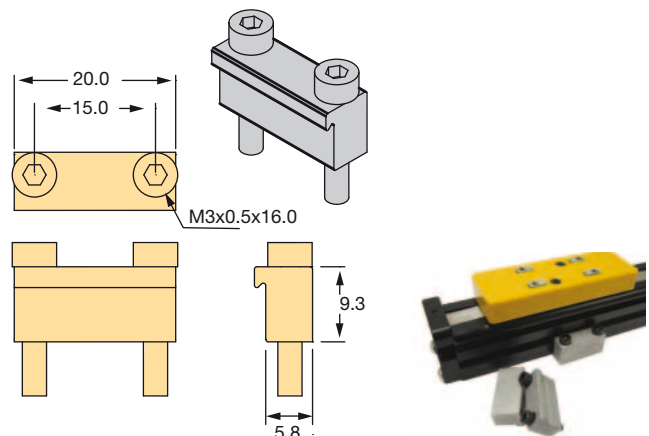
Part number: 002-3273-01 (includes four toe clamps with fasteners).



Toe Clamps

Toe Clamp Assembly

Toe clamp kits include socket head fasteners to mount clamp.



Part number	Quantity
002-3233-01	1
002-3233-04	4

Encoder

When using stepper motors, positional feedback is readily available with the optional rotary encoder. The robust magnetic encoder withstands vibration and provides easy in-position confirmation.

Encoder

Part number	Counts/rev	Bore [mm]
003-4591-01	400	4
003-4591-02	400	5
003-4591-03	500	4
003-4591-04	500	5
003-4591-05	400	6.35
003-4591-06	500	6.35

Encoder cable (6-pin differential)

Part number	
006-2398-1.0	1 m high flex, flying leads
006-2398-3.0	3 m high flex, flying leads



Wiring Connection

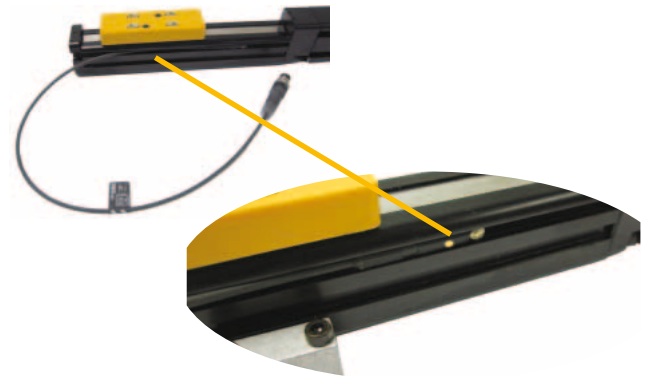
Pin	Wire	Function
1	White	Ground
2	Green	A+
3	Yellow	A-
4	Brown	+5 VDC
5	Blue	B+
6	Red	B-
7	Pink	Not used
8	Gray	Not used

End-of-Travel Limit Sensors

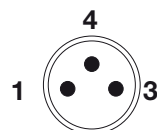
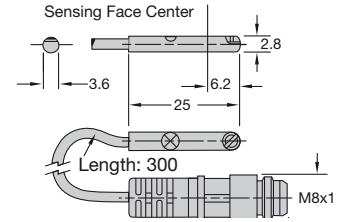
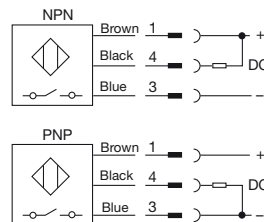
Limit sensors offer home and end of travel protection in a flush mount design that minimizes the overall width of the LCR series. The limit sensors are available standard as NPN or PNP with normally open or normally closed designs.

Specifications

Operating Voltage	10-30 VDC
Repeatability	≤±0.1 mm
EMC	EN 60 947-5-2
Short Circuit Protections	Yes
Reverse Polarity Protection	Yes
Enclosure Rating	IP67
Operating Temperature Range	-25...75 °C



Part number	Logic	Cable
003-4475-01	PNP N.C.	3 m flying leads
003-4475-02	PNP N.C.	0.3 m with M8
003-4475-03	NPN N.C.	3 m flying leads
003-4475-04	NPN N.C.	0.3 m with M8
003-4475-05	PNP N.O.	3 m flying leads
003-4475-06	PNP N.O.	0.3 m with M8
003-4475-07	NPN N.O.	3 m flying leads
003-4475-08	NPN N.O.	0.3 m with M8
003-2918-01	All cabling	5 m extension cable for M8 connections



Wiring Connection

Pin	Wire	Function
1	Brown	+VDC
4	Black	NO
3	Blue	-VDC

Order Code

LCR

	1	2	3	4	5	6	7	8	9
Order example	LCR	30	LN10	0075	S	S	M11E0	L0	A0

1 Series	LCR	Light Capacity Rodless Linear Positioner
2 Size	30	30 mm wide profile
3 Drive Train	IDLR	Idler unit; no drive mechanism
	LN02	2 mm leadscrew with inline motor mount
	LN10	10 mm leadscrew with inline motor mount
	BLTL	Single axis belt drive; motor left
	BLTR	Single axis belt drive; motor right
4 Travel Length	xxxx	LCR30 Screw-Driven: 25 to 600 mm LCR30 Belt-Driven: 25 to 1000 mm in 25 mm increments steps of travel
5 Bearing Type	S	Square rail bearing
	B	Glider bushing bearing
6 Environmental Protection	S	Strip seal protection (standard)

7 Motor	M11E0	Stepper motor NEMA 11, without encoder ¹⁾
	M11E1	Stepper motor NEMA 11, with 400 count encoder ¹⁾
	M11E2	Stepper motor NEMA 11, with 500 count encoder ¹⁾
	M17E0	Stepper motor NEMA 17, without encoder
	M17E1	Stepper motor NEMA 17, with 400 count encoder
	M17E2	Stepper motor NEMA 17, with 500 count encoder
	M23E0	Stepper motor NEMA 23, without encoder ²⁾
	M23E1	Stepper motor NEMA 23, with 400 count encoder ²⁾
	M23E2	Stepper motor NEMA 23, with 500 count encoder ²⁾
	N00E0	Idler version, no motor mount included
	N11E0	NEMA 11 motor mount and coupling only; no motor ¹⁾
	N17E0	NEMA 17 motor mount and coupling only; no motor
	N23E0	LV23 motor mount and coupling only; no motor ³⁾

8 Home and End-of-Travel Option	L0	None
	L1	3 NPN Sensor (1 N.O.; 2 N.C.)
	L2	1 NPN Sensor (1 N.O.)
	L3	3 PNP Sensor (1 N.O.; 2 N.C.)
	L4	1 PNP Sensor (1 N.O.)
	L5	3 NPN Sensor (2 N.O.; 1 N.C.)
	L6	1 NPN Sensor (1 N.C.)
	L7	3 PNP Sensor (2 N.O.; 1 N.C.)
	L8	1 PNP Sensor (1 N.C.)

9 Option	A0	Standard
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¹⁾ Not available with BLTL/BLTR belt drive train options.

²⁾ Only compatible with the LCR30 BLTL & LCR30 BLTR drive options.

³⁾ Not available with LN02 drive train option.



Parker's Motion & Control Technologies

At Parker, we're guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further info call 00800 27 27 5374



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Fuel systems & components
Fuel tank inerting systems
Hydraulic systems & components
Thermal management
Wheels & brakes



Climate Control

Key Markets

Agriculture
Air conditioning
Construction Machinery
Food & beverage
Industrial machinery
Life sciences
Oil & gas
Precision cooling
Process
Refrigeration
Transportation

Key Products

Accumulators
Advanced actuators
CO₂ controls
Electronic controllers
Filter driers
Hand shut-off valves
Heat exchangers
Hose & fittings
Pressure regulating valves
Refrigerant distributors
Safety relief valves
Smart pumps
Solenoid valves
Thermostatic expansion valves



Electromechanical

Key Markets

Aerospace
Factory automation
Life science & medical
Machine tools
Packaging machinery
Paper machinery
Plastics machinery & converting
Primary metals
Semiconductor & electronics
Textile
Wire & cable

Key Products

AC/DC drives & systems
Electric actuators, gantry robots & slides
Electrohydraulic actuation systems
Electromechanical actuation systems
Human machine interface
Linear motors
Stepper motors, servo motors, drives & controls
Structural extrusions



Filtration

Key Markets

Aerospace
Food & beverage
Industrial plant & equipment
Life sciences
Marine
Mobile equipment
Oil & gas
Power generation & renewable energy
Process
Transportation
Water Purification

Key Products

Analytical gas generators
Compressed air filters & dryers
Engine air, coolant, fuel & oil filtration systems
Fluid condition monitoring systems
Hydraulic & lubrication filters
Hydrogen, nitrogen & zero air generators
Instrumentation filters
Membrane & fiber filters
Microfiltration
Sterile air filtration
Water desalination & purification filters & systems



Fluid & Gas Handling

Key Markets

Aerial lift
Agriculture
Bulk chemical handling
Construction machinery
Food & beverage
Fuel & gas delivery
Industrial machinery
Life sciences
Marine
Mining
Mobile
Oil & gas
Renewable energy
Transportation

Key Products

Check valves
Connectors for low pressure fluid conveyance
Deep sea umbilicals
Diagnostic equipment
Hose couplings
Industrial hose
Mooring systems & power cables
PTFE hose & tubing
Quick couplings
Rubber & thermoplastic hose
Tube fittings & adapters
Tubing & plastic fittings



Hydraulics

Key Markets

Aerial lift
Agriculture
Alternative energy
Construction machinery
Forestry
Industrial machinery
Machine tools
Marine
Material handling
Mining
Oil & gas
Power generation
Refuse vehicles
Renewable energy
Truck hydraulics
Turf equipment

Key Products

Accumulators
Cartridge valves
Electrohydraulic actuators
Human machine interfaces
Hybrid drives
Hydraulic cylinders
Hydraulic motors & pumps
Hydraulic systems
Hydraulic valves & controls
Hydrostatic steering
Integrated hydraulic circuits
Power take-offs
Power units
Rotary actuators
Sensors



Pneumatics

Key Markets

Aerospace
Conveyor & material handling
Factory automation
Life science & medical
Machine tools
Packaging machinery
Transportation & automotive

Key Products

Air preparation
Brass fittings & valves
Manifolds
Pneumatic accessories
Pneumatic actuators & grippers
Pneumatic valves & controls
Quick disconnects
Rotary actuators
Rubber & thermoplastic hose & couplings
Structural extrusions
Thermoplastic tubing & fittings
Vacuum generators, cups & sensors



Process Control

Key Markets

Alternative fuels
Biopharmaceuticals
Chemical & refining
Food & beverage
Marine & shipbuilding
Medical & dental
Microelectronics
Nuclear Power
Offshore oil exploration
Oil & gas
Pharmaceuticals
Power generation
Pulp & paper
Steel
Water/wastewater

Key Products

Analytical Instruments
Analytical sample conditioning products & systems
Chemical injection fittings & valves
Fluoropolymer chemical delivery fittings, valves & pumps
High purity gas delivery fittings, valves, regulators & digital flow controllers
Industrial mass flow meters/controllers
Permanent no-weld tube fittings
Precision industrial regulators & flow controllers
Process control double block & bleeds
Process control fittings, valves, regulators & manifold valves



Sealing & Shielding

Key Markets

Aerospace
Chemical processing
Consumer
Fluid power
General industrial
Information technology
Life sciences
Microelectronics
Military
Oil & gas
Power generation
Renewable energy
Telecommunications
Transportation

Key Products

Dynamic seals
Elastomeric o-rings
Electro-medical instrument design & assembly
EMI shielding
Extruded & precision-cut, fabricated elastomeric seals
High temperature metal seals
Homogeneous & inserted elastomeric shapes
Medical device fabrication & assembly
Metal & plastic retained composite seals
Shielded optical windows
Silicone tubing & extrusions
Thermal management
Vibration dampening

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192-510100N1

April 2014

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