

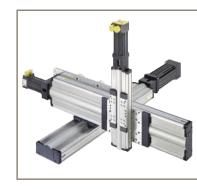
aerospace
climate control
electromechanical
filtration
fluid & gas handling
hydraulics
pneumatics
process control
sealing & shielding





Precision Technology

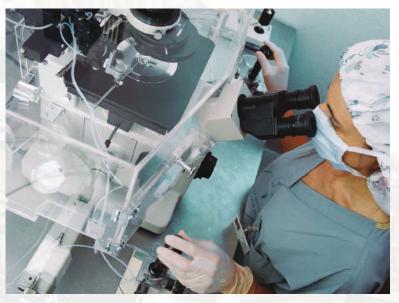
LXR Series Direct Drive Linear Motor Table



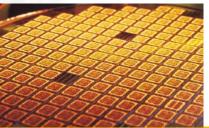












Precision Automation

Applications and industries integrating precision motion control have requirements that exceed most motion product capabilities - levels of accuracy, repeatability, straightness, flatness and orthogonality that demand specialized product designs and manufacturing capabilities. With more than 25 years of product design and manufacturing experience in the most demanding precision motion markets, Parker is ready to provide the products and systems to serve our customers' most challenging needs.

Customization and Services

Unlike many other motion technologies, precision electromechanical applications often require custom solutions. Many solutions are complete one-of-a kind systems.

Our experienced engineers and technicians provide:

- Application advice
- Product sizing and selection, including mechanics, motors, drives and controls
- System design
- System manufacturing including testing and axis alignment
- · System commissioning
- System maintenance

Parker Precision Automation customers can receive many optional services such as:

- 3D Custom assembly drawings
- Matches motor control systems
- Life-load diagrams
- · Customized cabling systems

Advanced Manufacturing Capabilities

Our advanced manufacturing and assembly process allows us to build quality and consistency into every element of your motion system. Each mechanical system is fully assembled prior to shipment and each component is properly handled to protect finish and appearance. While providing advanced manufacturing capabilities, we also strive to maintain the industry's best lead times for precision motion products.

Performance and specifications are verified with state-of-the-art testing, including

- Cleanroom-approved versions - Parker is equipped with in house particulate testing facilties to certify materials for cleanroom ratings.
- EMI testing Parker has an EMI test chamber, which allows us to test equipment to verify levels of electromagnetic interference.
- Precision Metrology Lab When precision is critical to your process, you need validated, proven performance data. Parker certifies all precision-grade positioners using state-of-the-art laser interferometers, and provides reports to validate accuracy and bidirectional repeatability.

Parker Automation Technology Centers

Parker Automation Technology
Centers are a network of premier
product and service providers
who can serve you locally for your
automation needs. Each Automation
Technology Center is certified to
have completed significant product
training and has the ability to provide
subsystem solutions with local
support. Parker Automation Technology Centers are located throughout Europe, and are served by our
European manufacturing facility in
Offenburg, Germany.

Selectable Levels of Integration

Parker's **Selectable Levels of Integ- ration** is a philosophy of product development and management that allows the machine builder to select an appropriate system, subsystem, or component to meet a specific need. Parker has solutions for machine builders of all types, from those who want a complete integrated system to those who want to build their own system from "best of breed" components.

Systems

Machine builders and OEMs often choose to integrate a complete electromechanical system into their machine. They have confidence in knowing that our knowledge, experience, and support will ensure that their goals are met. Minimal design engineering ensures component compatibility from a single source.

Subsystems and Bundled Products

For a cost-effective and efficient solution, Parker offers bundled or kitted systems. We can combine motors, gearheads, and positioning systems to deliver a configured subsystem ready for installation. Parker configuration and setup software accommodates the rest of the product line, making startup a snap. Combining this with our custom product modification capabilities gives the machine builder an economical custom-fit solution, with reduced engineering effort, straightforward integration, and modular compatibility.

Component Products

We offer the broadest range of linear and rotary motion products available for automation systems. If you have the capability and experience to develop your own systems, our innovative, easy-to-use products will help you get the job done. Parker provides short lead times, large selection, and proven reliability.

LXR Series

www.parker-eme.com/lxr

LXR Series Features

Linear motors cannot function on their own. Before motion can occur, a platform must be engineered to provide support, direction, and feedback for the linear motor. Bearings, cables, connectors, encoder, travel stops, homing sensor and other components must be performance matched and integrated to achieve desired motion and control.

Parker linear motor tables provide all this and more in a pre-engineered, easily mounted, ready to run package. The linear motor magnet rail is mounted to a stationary base and the forcer is mounted to the moveable carriage. The only contact between the moving carriage and the stationary base is through the linear support bearings. High-precision square rail bearings provide load support, low-friction translation, and a precise linear path. A high resolution linear encoder provides the required velocity and positional information to the motor controller, and a unique cable management system enables high performance motion with a life of 30 million cycles and beyond. Parker tables, with the slotless linear motor, are offered in three sizes: 404LXR, 406LXR, and 412LXR.



Performance matched components

The LXR Series linear servo motor tables achieve optimum performance by combining slotless motor technology with performance matched mechanical elements and feedback devices. Fast response, high acceleration, smooth translation, high velocity, and quick settling time describe the performance characteristics found in the LXR while high repeatability, precise accuracy, and submicrometer resolution define the positioning attributes.

Sized to fit

The LXR Tables are offered in three widths (100, 150, and 300 mm), and travel lengths up to 3 m to accommodate the size and performance requirements of many industries including life sciences, photonics, semiconduc-

tor, digital printing, solar panel, and general automation.



"Designer friendly" features and options

A vast assortment of "designer friendly" features and options simplify the engineering challenges often confronted with "base model" positioning devices.

Features like the IP30 protective strip seal and long life cable ma-



nagement system exemplify the built-in value found in the LXR units. Other selectable enhancements like cleanroom compatibility, travel limit sensors, motor drives, encoder resolution, and pinning holes for tooling location, simplify machine design and integration efforts.

Flexibility and multi-axis compatibility

The LXR's selection flexibility and mounting compatibility with the XR ballscrew driven tables enables

single-axis or complex multi-axis units to be configured in a straightforward manner.



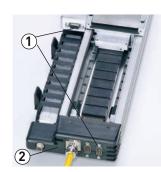
Parker's matching servo drives and motion controllers can be included to complete the motion system.

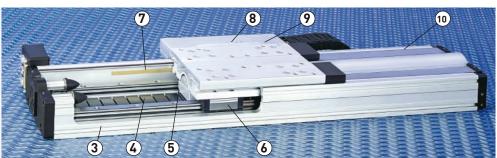
Customs and systems

For specialized applications requiring customization, Parker design engi-

neers can easily modify these tables to suit, or engineer complete interactive linear motion systems to desired specifications. Parker's LXR series tables have taken the mystery, difficulty and cost out of integrating linear motor tables into high throughput precision positioning applications.







1 Pass-through cabling

Pre-wired, plug-in connection of the moving payload for easy hookup of user instruments or end effectors.

(2) Connection panel

Electrically shielded panel provides "plug-in" connectivity and quick disconnect for all signal and power requirements.

(3) High strength extruded aluminum body

Extruded aluminum housing is precision machined to provide outstanding straightness and flatness.

(4) Magnet rail

Single rail of high energy rare earth magnets offers lower weight and lower cost than double magnet type.

(5) Slotless linear motor

Provides a highly responsive, zero backlash drive system. Slotless motors offer excellent heat management, durability, and have built-in thermal sensor and hall sensors.

(6) Linear guidance system

The highly engineered carriage and bearing system effectively counters the combined problematic effects of heat, high-speed and high acceleration.

(7) Integral linear encoder

Protected non-contact feedback with selectable resolutions to 0.1 µm. Z channel is factory aligned to home sensor for precise homing.

(8) Home/limit sensors

Proximity sensors establish end of travel and "home" location and are easily adjustable over entire length to restrict the travel envelope.

(9) "Quick change" cabling

Innovative cable transport module offers extended life (30 million cycles) and a simple cable changing system for preventative maintenance.

(10) Protective seals

Hard shell aluminum cover combined with stainless steel strip seals provide IP30 protection to interior components as well as enhances overall appearance.

LXR Series Technical Data

Frame size	Unit	404LXR	406	LXR	412LXR
Motor		8-pole	8-pole	12-pole	12-pole
Continuous Force	[N]	50	75	110	355
Peak force	[N]	180	225	330	1000
Continuous current at 230 VAC	[A]	1.620	2.470	2.400	4.450
Peak current*	[A]	5.8	7.3	7.1	13.4
Force constant	[N/A]	30.619	30.619	46.54	79.608
Nominal load	[kg]	45	180	180	950
Maximum velocity					
Feedback resolution 0.1 µm		0.3	0.3	0.3	0.3
Feedback resolution 0.5 µm	[m/s]	1.5	1.5	1.5	1.5
Feedback resolution 1.0 µm	[111/3]	3.0	3.0	3.0	3.0
Feedback resolution 5.0 µm		3.0	3.0	3.0	3.0
Sine - Cosine		3.0	3.0	3.0	3.0
Maximum acceleration	[m/s ²]		4	9	
Positional Repeatability					
Feedback resolution 0.1 µm			± '	1.0	
Feedback resolution 0.5 µm	[µm]		± '	1.0	
Feedback resolution 1.0 µm	[µiii]			2.0	
Feedback resolution 5.0 µm			± 1	0.0	
Sine - Cosine			(Interpolation	n dependent)	
Carriage mass	[kg]	1.4	3.2	4.1	12.3

based on a winding temperature of up to 60 °C for a period of: 404LXR - 5 s, 406LXR - 3 s, 412LXR - 63 s

Travel dependent specifications

	Α	ccura	icy* [µm]		Unit we	ight [kg]	
Travel [mm]	Positio Resolut 0.1, 0.5, 1.0		Straightness & flatness	404LXR 8-pole	406LXR 8-pole	406LXR 12-pole	412LXR 12-pole
50	6	16	6	4.4	8.7	11.1	_
100	7	17	6	4.8	_	_	_
150	8	18	9	5.2	10.3	13.4	41
200	10	20	10	5.6	_	_	_
250	12	22	12	6.0	12.6	14.1	45
300	14	24	13	6.4	_	_	-
350	16	26	15	6.8	13.3	15.7	49
400	18	28	16	7.2			_
450	20	30	18	-	14.8	17.2	_
500	21	31	19	8.0	-	-	-
550	23	33	21	-	16.4	18.7	-
600	25	35	22	8.9	-	-	-
650	26	36	24	9.7	17.9	20.2	61
700	28	38	25 27	9.7	19.4	21.8	-
750 800	29 31	39 41	29	10.6	19.4	21.0	- 67
850	32	43	30	10.6	20.9	23.3	67
900	33	44	32	11.5	20.9	20.0	
950	34	44	33	-	22.5	_	_
1000	35	45	35	12.4	_	27.1	75
1050	37	47	36	-	_	_	-
1200	39	49	41	_	26.3	_	83
1350	42	52	45	_	_	30.9	_
1450	43	53	48	_	30.1	_	_
1500	44	54	50	_	_	_	95
1600	45	55	53	-	_	34.7	_
1700	46	56	56	_	33.9	_	_
1750	46	56	57	_	_	_	105
1850	47	57	60	_	_	38.6	_
1950	48	58	63	-	37.7	-	-
2000	48	58	65	-	-	-	113
2350	49	59	76	-	-	-	-
2500	50	60	80	-	-	-	133
2850	50	60	84	-	-	-	-
3000	50	60	84	_	_	_	153

^{*} The stated precision is specified at an ambient temperature of 20 °C.

Encoder specifications

Power input
5 VDC ±5 % 150 mA
Output (incremental)
Square wave differential line driver (EIA RS422) 2 channels A and B in quadrature (90°) phase shift.
Reference (Z channel)
Synchronized pulse, duration equal to one resolution bit. Repeatability (unidirectional) with reference to the movement in positive direction.

Limit and home specifications

Zimit and nome operations
Power input
+5 to +24 VDC 60 mA
(20 mA per sensor)
Output
Output form is selectable with product:
NC, sinking
NO, sinking
NC, sourcing
NO, sourcing
All types sink or source max of 50 mA
Repeatability
Limits: ±10 µm (unidirectional)
Home: see Z channel specifications

Hall effect specifications

Power input +5 to +24 VDC, 30 mA Output

Open collector, current sinking, 20 mA max.

LXR Series Options & Accessories

LXR Cable Management Options

Cable transport module

The LXR's cable transport module offers the convenience of "plug and play" connectivity for fast, easy table installation and "quick change" replacement. This system of cable management includes the highest quality high-flex ribbon cable with a life rating of 30 million cycles, a cable track with support brackets, a "quick change" carriage cartridge, and a plug-in connector panel housing. It also provides a "pass-through" connection and cabling for customer application. This transport module option is ideal for high throughput continuous duty requirements where downtime is not acceptable.



Quick change cartridge



Cable extensions - flying leads terminations



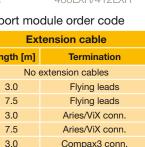
404LXR cable transport module



2-axis system with expandable cable management

Cable transport module order code

Connection ends



code Length [m] CM02 CM07 CM08 CM13 CM14 CM17 Compax3 conn. CM18 7.5 Compax3 conn. CM22 3.0 only 412LXR-Compax3 only 412LXR-Compax3

OEM cable system

The LXR's unharnessed cable system is offered for OEMs and others who have independent methods of routing and managing cables. These systems offer the "quick change" cartridge, "pass-through" connection and round high-flex cables in lengths of 3.0 or 7.5 m. They are available with flying lead end terminations as well as connectors for several drive controllers.





406LXR with OEM cables and flying leads

OEM cable system order code

Order	Ex	tension cable
code	Length [m]	Termination
CM03	3.0	Flying leads
CM04	7.5	Flying leads
CM11	3.0	Aries/ViX conn.
CM12	7.5	Aries/ViX conn.
CM15	3.0	Compax3 conn.
CM16	7.5	Compax3 conn.
CM20	3.0	only 412LXR-Compax3
CM21	7.5	only 412LXR-Compax3

User "pass-through" cabling

Cable concerns regarding routing and durability for payload or instrument signals are addressed by the passthrough connectivity feature included with both of the LXR cable management systems. Nine pin D-connectors provided on the carriage (with the transport module units) and the cable connecting block combine with highflex, long life cables for easy setup and dependable performance.

- Pre-wired plug-in connection to the moving payload
- Nine user conductors for end-effectors or instruments
- High-flex long life cables:
 - Ribbon cable transport module system
 - Round cable OEM system



Extension cables are available and can be ordered separately – 006-1743-01 (3 m); 006-1743-02 (7.5 m).

Compax3 - Servo Drive: High Performance Servo Drives

www.parker-eme.com/c3



Compax3S

- Rated power 1 up to 25 kW
- Auxiliary supply voltage 24 VDC +/-10 %
- Installation in 300 mm control cabinets
- All connections on front panel

- Power range from 1 to 25 kW
- Scalable technology functions
- 1 encoder output / 1 encoder input
- 8 digital inputs, 4 digital outputs
- 2 analogue inputs (14 Bit)
- 2 analogue outputs (8 Bit)

User-friendly software

- One tool for all: "Parker Integrated Engineering Tool, including ServoManager, motor and valve libraries
 - Commissioning, configuration and setup, motor control.
 - Programming, optimization and maintenance
 - Suitable for multi-axis applications
 - Integrated 4-channel oscilloscope for signal analysis

EtherCAT Profinet CANopen Profibus DeviceNet RS232/RS485

Compax3 technologies

Compax3 T10:



Analog or step/direction input

Compax3 T11:



Positioning

Compax3 T30:



IEC61131-3 Positioning with function modules according to PLCopen

Compax3 T40:



IEC61131-3 Positioning with Cam function modules

Dowel pinning options

Order codes: P1, P2, P3

AStandard dowel pin locating holes P1 are offered on all LXR units to facilitate repeatable mounting of tooling or payload.

In addition, pinning options P2 and P3 are offered for precise orthogonal mounting of the second axis in a multi-axis system. In this case, the bottom side of the table base is match drilled and reamed to the first axis to provide exact orthogonal location. This convenient option eliminates concerns regarding contamination or damage often associated with machining for locating pins in an assembled unit. In some instances a 404LXR pinning adapter may be required part number 100-9584-01.



Cleanroom Preparation Option

Order code: R2

Cleanroom compatible linear tables are often required for laboratory and production applications in industries such as semiconductor, life science, electronics, and pharmaceuticals. LXR tables with cleanroom preparation were tested in Parker's vertical laminar flow work station, which utilizes ULPA filters to produce a clean environment prior to testing. Tables were tested in a variety of orientations with sampling both below the table and at the carriage mounting surface. Laminar flow rate is 0.16 kPa.



404LXR with cleanroom cover

Standard cleanroom preparation

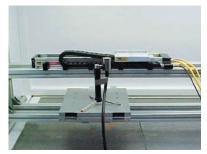
- Stringent cleaning and handling measures
- Cleanroom rated lubrication
- Strip seal replaced with hard shell cover

LXR cleanroom compatibility

Special cleanroom testing can be provided upon request. For more information on cleanroom testing, contact a Parker Applications Engineer.



Testing at 114.3 mm below table



Testing at carriage mounting surface

Toe clamp accessory

Toe clamps for mounting LXR tables are ordered separately.

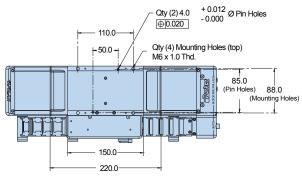
Note that LXR Series toe clamps are not interchangeable with toe clamps for XR series tables.

Part number: 100-8376-01 (404LXR) 002-3624-01 (406LXR) 002-2160-01 (412LXR)

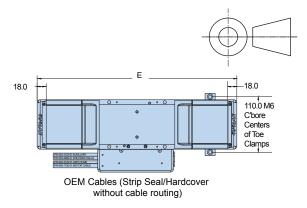


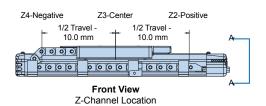
LXR Series Dimensions 404LXR Dimensions

Dimensions [mm]

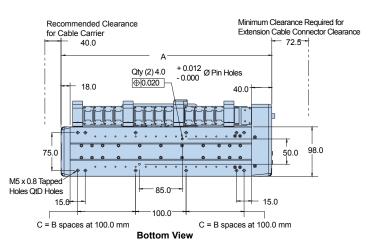


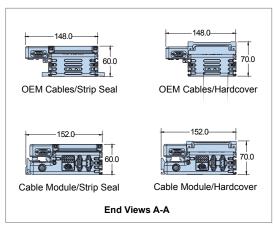
Top View (with Cable Transport Module)





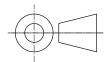
Cable Module (Strip Seal/Hardcover)

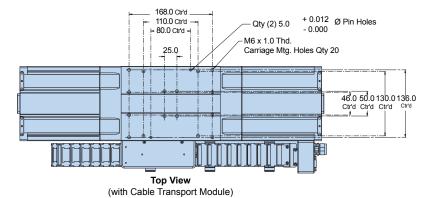


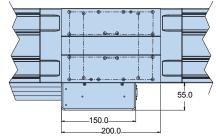


Frame size	Travel [mm]		Dimen	sions [mm	n]	
		Overall length	Number of spaces left or right		Number of mounting holes	
		Α	В	С	D	E
404T00LXR	50	368.0	1	100.0	12	346.0
404T01LXR	100	418.0	1	100.0	12	396.0
404T02LXR	150	468.0	1	100.0	12	446.0
404T03LXR	200	518.0	1	100.0	12	496.0
404T04LXR	250	568.0	1	100.0	12	546.0
404T05LXR	300	618.0	2	200.0	16	596.0
404T06LXR	350	668.0	2	200.0	16	646.0
404T07LXR	400	718.0	2	200.0	16	696.0
404T08LXR	450	768.0	2	200.0	16	746.0
404T09LXR	500	818.0	3	300.0	20	796.0
404T10LXR	550	868.0	3	300.0	20	846.0
404T11LXR	600	918.0	3	300.0	20	896.0
404T12LXR	650	968.0	3	300.0	20	946.0
404T13LXR	700	1018.0	4	400.0	24	996.0
404T14LXR	750	1068.0	4	400.0	24	1046.0
404T15LXR	800	1118.0	4	400.0	24	1096.0
404T16LXR	850	1168.0	4	400.0	24	1146.0
404T17LXR	900	1218.0	5	500.0	28	1196.0
404T18LXR	950	1268.0	5	500.0	28	1246.0
404T19LXR	1000	1318.0	5	500.0	28	1296.0

8 or 12 pole slotless motor



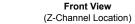




Z3* Z4* Z2* Center Negative 1/2 Travel -1/2 Travel -Positive 10 mm | 8 Pole Carriage = 288 mm | 12 Pole Carriage = 373 mm 10 mm 000000000 00000 00000

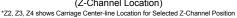
Bottom View

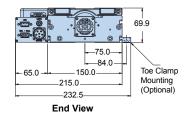
Top View (with OEM Cable System)

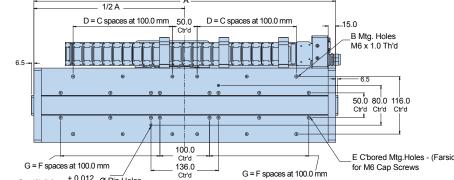


G = F spaces at 100.0 mm

Qty (2) 5.0 + 0.012 Ø Pin Holes







G = F spaces at 100.0 mm

(with OEM Cable System)

Frame size	Trave	[mm]			Dime	ensions [m	m]		
			Overall length	Number of mounting holes	Number of spaces left or right		Number of mounting holes	Number of spaces left or right	
	8 Pole	12 Pole	Α	В	С	D	E	F	G
406T01LXR	50	_	408	8	1	100.0	12	1	100.0
406T02LXR	150	50	508	8	1	100.0	12	1	100.0
406T03LXR	250	150	608	12	2	200.0	16	2	200.0
406T04LXR	350	250	708	12	2	200.0	16	2	200.0
406T05LXR	450	350	808	16	3	300.0	20	3	300.0
406T06LXR	550	450	908	16	3	300.0	20	3	300.0
406T07LXR	650	550	1008	20	4	400.0	24	4	400.0
406T08LXR	750	650	1108	20	4	400.0	24	4	400.0
406T09LXR	850	750	1208	24	5	500.0	28	5	500.0
406T10LXR	950	850	1308	24	5	500.0	28	5	500.0
406T11LXR	1200	1100	1558	32	7	700.0	32	6	600.0
406T12LXR	1450	1350	1808	36	8	800.0	40	8	800.0
406T13LXR	1700	1600	2058	40	9	900.0	44	9	900.0
406T14LXR	1950	1850	2308	44	10	1000.0	48	10	1000.0

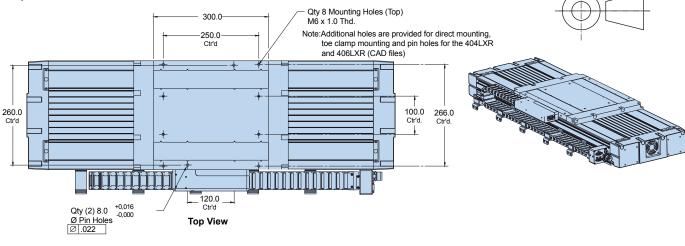
E C'bored Mtg.Holes - (Farside)

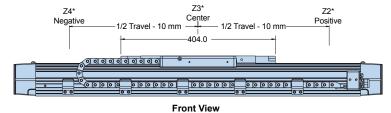
for M6 Cap Screws

412LXR Dimensions

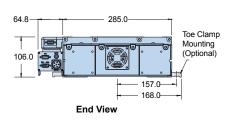
Dimensions [mm]

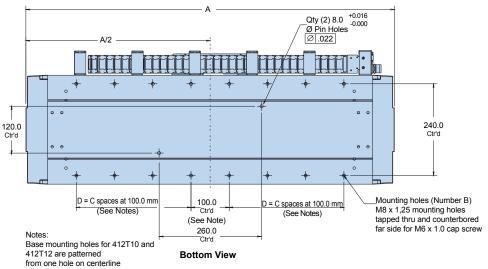
12 pole slotless motor





*Z2, Z3, Z4 shows Carriage Center-line Location for Selected Z-Channel Position





Baugröße	Travel [mm]		Dimens	sions [mm]	
		Overall length	Number of mounting holes	Number of spaces left or right	
		Α	В	С	D
412T01LXR	150	764	12	2	200
412T02LXR	250	864	16	3	300
412T03LXR	350	964	16	3	300
412T04LXR	650	1264	24	5	500
412T05LXR	800	1414	24	5	500
412T06LXR	1000	1614	28	6	600
412T07LXR	1200	1814	32	7	700
412T08LXR	1500	2114	40	9	900
412T09LXR	1750	2364	44	10	1000
412T10LXR	2000	2614	50	12	1200
412T11LXR	2500	3114	60	14	1400
412T12LXR	3000	3614	70	17	1700

LXR Series Ordering Information

404LXR Ordering InformationFill in an order code from each of the numbered fields to create a complete model order code.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Order example	404	T04	LXR	М	Р	D13	НЗ	L2	CM15	Z 2	E7	R1	A1	P1

	F		_	Onlate	
1	Frame		9		management
	404	98 mm profile width		CM01	None
2	Travel	- mm		CM02	Cable transport module (only)
	Havor	8 pole motor		CM03	3.0 m OEM cable set-FL
	T00	50		CM04	7.5 m OEM cable set-FL
	T01	100		CM07	Cable transport module with 3.0 m-FL*
	T02	150		CM08	Cable transport module with 7.5 m-FL*
	T03	200		CM11	3.0 m OEM cable set-Aries/ViX
	T04	250		CM12	7.5 m OEM cable set-Aries/ViX
	T05	300		CM13	Cable transport module with 3.0 m-Aries/ViX*
	T06	350		CM14	Cable transport module with 7.5 m-Aries/ViX*
	T07	400		CM15	3.0 m OEM cable set - Compax3
	T08	450		CM16	7.5 m OEM cable set - Compax3
	T09	500		CM17	Cable transport module with 3.0 m-Compax3
	T10			CM18	Cable transport module with 7.5 m-Compax3
	T11	550 600			sion cable for pass through connection is available and can
				be ord	dered separately: #006-1743-01 (3 m); #006-1743-02 (7.5 m)
	T12	650	10	7 abou	nel location*
	T13	700	10	Z Chan Z1	None
	T14	750		Z2	Positive end position
	T15	800		Z3	Center position
	T16	850		Z4	Negative end position
	T17	900			to dimensions on previous pages
	T18	950			
	T19	1000	11	Encode	er option
3	Model			E1	None
	LXR	Linear motor		E2	1.0 µm resolution (RS422)
			ı	E 3	0.5 µm resolution (RS422)
4	Mount	- · · -		E 4	0.1 µm resolution (RS422)
	M	Metric		E 5	5.0 µm resolution (RS422)
5	Grade			E7	Sine Cosine 1 V _{ss} for C3F12
U	P	Precision	10	Envisor	amontal antique
			12		nmental option
6	Drive t			R1 R2	Strip seal Protective cover
	D3	None - free travel/idler		n2	cleanroom class 10 (ISO 4)
	D13	8 pole motor		R3	Hard cover without cleanroom prep
7	Home	sensor	l		That dovor without cloan com prop
•	H1	None	13	Digital	drive
	H2	NC, sinking		A1	None
	H3	NO, sinking	1/	Pinning	y ontion
	H4	NC, sourcing	14	P1	None
		<u> </u>			
	H5	NO, sourcing	ı	P2*	X axis transfer pinning to Y or Z axis - 30 arcsec
8	Limit s			P3*	Y axis transfer pinning to X axis - 30 arcsec
	L1	None			fer pinning to XR from LXR requires additional bracket,
	L2	NC, sinking		please	e contact Parker EME.
	L3	NO, sinking			
	L4	NC, sourcing			
	L5	NO, sourcing			

L5

NO, sourcing

406LXR Ordering Information

Fill in an order code from each of the numbered fields to create a complete model order code.

	1													
Order example	406	T08	LXR	M	Р	D13	H2	L2	CM15	Z 2	E7	R1	A1	P1

Frame	Size		9	Cable	management
406	150 mm profile wi	dth	9	CM01	None
_				CM02	Cable transport module (only)
Travel -		40 mala mastan		CM03	3.0 m OEM cable set-FL
T01	8 pole motor 50	12 pole motor		CM04	7.5 m OEM cable set-FL
T02	150	50		CM07	Cable transport module with 3.0 m-FL*
T03	250	150		CM08	Cable transport module with 7.5 m-FL*
T04	350	250		CM11	3.0 m OEM cable set-Aries/ViX
T05	450	350		CM12	7.5 m OEM cable set-Aries/ViX
T06	550	450		CM13	Cable transport module with 3.0 m-Aries/\(\lambda\)
T07	650	550		CM14	Cable transport module with 7.5 m-Aries/N
T08				CM15	3.0 m OEM cable set – Compax3
	750	650		CM16	•
T09	850	750			7.5 m OEM cable set – Compax3
T10	950	850		CM17	Cable transport module with 3.0 m-Compa
T11	1200	1100		CM18	Cable transport module with 7.5 m-Compa sion cable for pass through connection is available and c
T12	1450	1350			dered separately: #006-1743-01 (3 m); #006-1743-02 (7.5
T13	1700	1650	10	7 Chan	nel location*
T14	1950	1850	10	Z1	None
Model				Z2	Positive end position
LXR	Linear motor			 Z3	Center position
Mounti	na			Z4	Negative end position
M	Metric			* Refer	to dimensions on previous pages
Outsile					
Grade P	Precision		11	Encode E1	er option None
	1 100131011			E2	
Drive t					1.0 µm resolution (RS422)
Do	Free travel/idler (-		E3	0.5 µm resolution (RS422)
D3 D5	Corresponds to the Correspond to t	•		E4	0.1 µm resolution (RS422)
В	Linear motor	e 12 pole motor		E5	5.0 µm resolution (RS422)
D13	8 pole motor carrie	age		E7	Sine Cosine 1 V _{ss} for C3F12
D15	12 pole motor car	riage	12	Enviror	nmental option
Home	sensor			R1	Strip seal
H1	None			R2	Protective cover
H2	NC, sinking				cleanroom class 10 (ISO 4)
НЗ	NO, sinking		13	Digital	
H4	NC, sourcing			A 1	None
H5	NO, sourcing		14	Pinning	goption
				P1	None
Limit s				P2*	X axis transfer pinning to Y or Z axis
L1	None			DO :	- 30 arcsec
L2	NC, sinking			P3*	Y axis transfer pinning to X axis - 30 arcse
L3	NO, sinking				er pinning to XR from LXR requires additional bracket, e contact Parker EME.
L4	NC, sourcing				

412LXR Bestellinformation

Fill in an order code from each of the numbered fields to create a complete model order code.

	1													
Order example	412	T09	LXR	M	Р	D15	Н3	L2	CM20	Z 2	E7	R1	A1	P1

	Frame	size	9	Cable ı	management
	412	285 mm profile width		CM01	None
2	Travel	- mm		CM02	Cable transport module (only)
_	Havor	12 pole motor		CM03	3.0 m OEM cable set-FL
	T01	150		CM04	7.5 m OEM cable set-FL
	T02	250		CM07	Cable transport module with 3.0 m-FL*
	T03	350		CM08	Cable transport module with 7.5 m-FL*
	T04	650		CM11	3.0 m OEM cable set-Aries/ViX
	T05	800		CM12	7.5 m OEM cable set-Aries/ViX
	T06	1000		CM13	Cable transport module with 3.0 m-Aries/Vix
	T07	1200		CM14	Cable transport module with 7.5 m-Aries/Vix
	T08	1500		CM20	3.0 m OEM cable set – Compax3
	T09	1750		CM21	7.5 m OEM cable set – Compax3
	T10	2000		CM22	Cable transport module with 3.0 m-Compax
	T11	2500		CM23	Cable transport module with 7.5 m-Compax
	T12	3000			sion cable for pass through connection is available and can
				be ord	dered separately: #006-1743-01 (3 m); #006-1743-02 (7.5 m
3	Model		10	Z Chan	nel location*
	LXR	Linear motor		Z1	None
4	Mount	ing		Z 2	Positive end position
	М	Metric		Z 3	Center position
5	Grade			Z 4	Negative end position
	Р	Precision		* Refer	to dimensions on previous pages
6	Drive t		11	Engad	
6	Drive t			FDCOOR	er ontion
	_		11	Encode E1	er option None
	D5 D15	None - free travel/idler			None
_	D5 D15	None - free travel/idler 12 pole motor		E1	None 1.0 µm resolution (RS422)
7	D5 D15 Home	None - free travel/idler 12 pole motor sensor		E1 E2	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422)
7	D5 D15 Home H1	None - free travel/idler 12 pole motor sensor None		E1 E2 E3	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422)
7	D5 D15 Home H1 H2	None - free travel/idler 12 pole motor sensor None NC, sinking		E1 E2 E3 E4 E5	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422)
7	D5 D15 Home H1 H2 H3	None - free travel/idler 12 pole motor sensor None NC, sinking NO, sinking		E1 E2 E3 E4 E5	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422) Sine Cosine 1 V _{ss} for C3F12
7	D5 D15 Home H1 H2 H3 H4	None - free travel/idler 12 pole motor sensor None NC, sinking NO, sinking NC, sourcing		E1 E2 E3 E4 E5 E7	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422) Sine Cosine 1 V _{ss} for C3F12
7	D5 D15 Home H1 H2 H3	None - free travel/idler 12 pole motor sensor None NC, sinking NO, sinking		E1 E2 E3 E4 E5 E7 Enviror	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422) Sine Cosine 1 V _{ss} for C3F12
7	D5 D15 Home H1 H2 H3 H4	None - free travel/idler 12 pole motor sensor None NC, sinking NO, sinking NC, sourcing NO, sourcing		E1 E2 E3 E4 E5 E7	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422) Sine Cosine 1 V _{ss} for C3F12 mental option
	D5 D15 Home H1 H2 H3 H4 H5	None - free travel/idler 12 pole motor sensor None NC, sinking NO, sinking NC, sourcing NO, sourcing	12	E1 E2 E3 E4 E5 E7 Enviror R1 R2	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422) Sine Cosine 1 V _{ss} for C3F12 Immental option Strip seal Protective cover cleanroom class 10 (ISO 4)
	D5 D15 Home H1 H2 H3 H4 H5	None - free travel/idler 12 pole motor sensor None NC, sinking NO, sinking NC, sourcing NO, sourcing	12	E1 E2 E3 E4 E5 E7 Enviror R1 R2	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422) Sine Cosine 1 V _{ss} for C3F12 mental option Strip seal Protective cover cleanroom class 10 (ISO 4) drive
	D5 D15 Home H1 H2 H3 H4 H5	None - free travel/idler 12 pole motor sensor None NC, sinking NO, sinking NC, sourcing NO, sourcing NO, sourcing ensor None	12	E1 E2 E3 E4 E5 E7 Enviror R1 R2 Digital A1	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422) Sine Cosine 1 V _{ss} for C3F12 mental option Strip seal Protective cover cleanroom class 10 (ISO 4) drive None
	D5 D15 Home H1 H2 H3 H4 H5 Limit s L1 L2	None - free travel/idler 12 pole motor sensor None NC, sinking NO, sinking NC, sourcing NO, sourcing NO, sourcing ensor None NC, sinking	12	E1 E2 E3 E4 E5 E7 Enviror R1 R2 Digital A1 Pinning	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422) Sine Cosine 1 V _{ss} for C3F12 mental option Strip seal Protective cover cleanroom class 10 (ISO 4) drive None
	D5 D15 Home H1 H2 H3 H4 H5 Limit s L1 L2 L3	None - free travel/idler 12 pole motor sensor None NC, sinking NO, sinking NC, sourcing NO, sourcing NO, sourcing ensor None NC, sinking NO, sinking	12	E1 E2 E3 E4 E5 E7 Enviror R1 R2 Digital A1 Pinning	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422) Sine Cosine 1 V _{ss} for C3F12 Immental option Strip seal Protective cover cleanroom class 10 (ISO 4) drive None 9 option None
	D5 D15 Home H1 H2 H3 H4 H5 Limit s L1 L2 L3 L4	None - free travel/idler 12 pole motor sensor None NC, sinking NO, sinking NC, sourcing NO, sourcing ensor None NC, sinking NO, sourcing NO, sourcing	12	E1 E2 E3 E4 E5 E7 Enviror R1 R2 Digital A1 Pinning	None 1.0 µm resolution (RS422) 0.5 µm resolution (RS422) 0.1 µm resolution (RS422) 5.0 µm resolution (RS422) Sine Cosine 1 V _{ss} for C3F12 mental option Strip seal Protective cover cleanroom class 10 (ISO 4) drive None

* Transfer pinning to XR from LXR requires additional bracket,

please contact Parker EME.



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