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Catalog 8092/USA
Square Rail Linear Tables

High Precision

The "400XR" Product Family

- Pre-engineered package
- Performance matched components
- Protection from environment
- Certified precision

1. High Strength Aluminum Body

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

2. Square Rail Linear Bearing

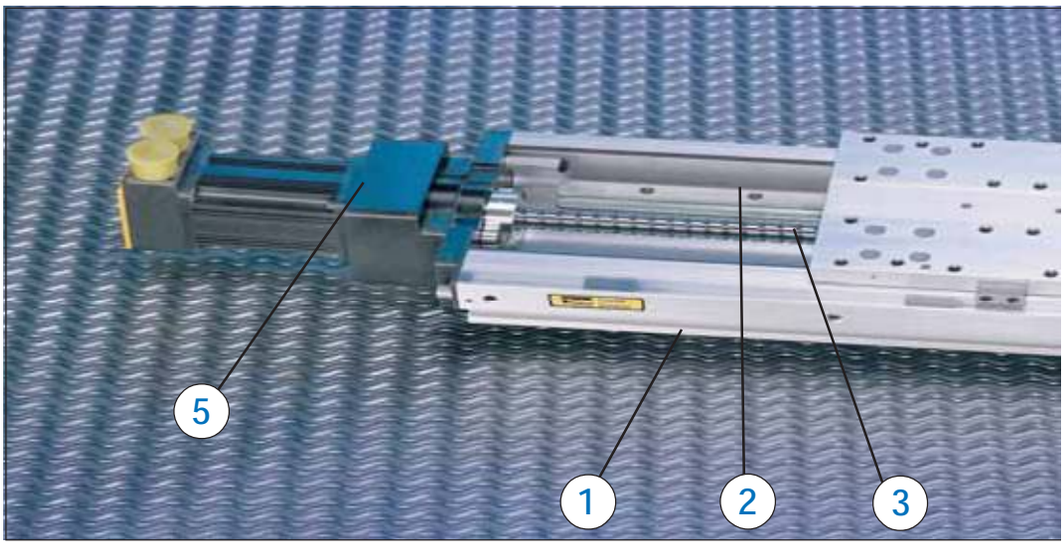
These tables are equipped with square rail carriage support bearings which provide high load carrying capabilities, smooth precise motion and dependable performance.

3. High Efficiency Ballscrew Drive

Precision ground, or rolled ballscrew drive (5, 10, 20, 25, 32 mm lead) offers high throughput, efficiency, accuracy and repeatability.

4. Limit/HomeSensors

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



Cleanroom Preparation

Class 10 cleanroom preparation is a standard option for the 400XR series. For detailed technical information on cleanroom preparation, contact Parker's Application Engineering Department.

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Catalog 8092/USA

Square Rail Linear Tables

High Precision

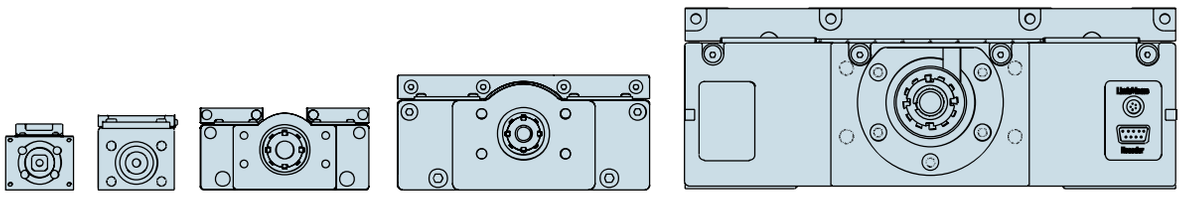
The "400XR" precision linear positioners family has achieved global recognition for consistent accuracy, reliable performance, high strength, and unmatched versatility. The XRs have excelled in industriessuch as life sciences, fiber optics and instru-mentation, where the highest degree of precision is required. And yet, because of the rugged construction, strength, and sealed design, these units have been used extensively for industrial automation applications (packaging, automotive, etc).

The XR family offers an unrivaled array of features and options which are easily matched to fit any application, from the very basic to the highly complex. Premier performance, modular compatibility, and quick delivery have made these tables the perfect building blocks for cost-effective multi-axis systems.

Typical Enhancements

- **Limit/home position sensors**
- **Linear encoder feedback**
- **Cleanroom preparation**
- **Multi-axis brackets & adapters**
- **Selectable motor mounts**
- **Servo motors and drives**
- **Programmable controls**
- **Cable management system**

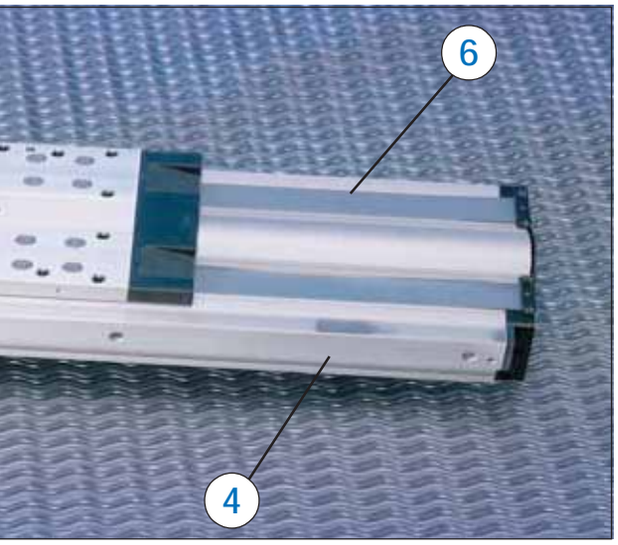
	401XR	402XR	404XR	406XR	412XR
Travel	300 mm	600 mm	600 mm	2000 mm	2000 mm
Load	50 kg	100 kg	170 kg	630 kg	1470 kg
Accel.	20 m/sec^2	20 m/sec^2	20 m/sec^2	20 m/sec^2	20 m/sec^2



401XR 402XR 404XR 406XR 412XR

5. Motor Mounts

A large selection of servo and stepper motor sizes; plus selectable mounting configurations (in-line, parallel) permit a wide variety of motor mounting possibilities.



6. IP30 Rated Strip Seals

An anodized aluminum cover combined with stainless steel strip seals provide IP30 protection to interior components as well as enhance the overall appearance.

Encoders

The linear encoder option offers direct positional feedback of the carriage location. The rotary shaft encoder couples directly to the drive shaft to nullify any incurred mechanical error (particularly useful with the parallelmotor mount). *Not shown*

Positive Pressure Port

(1/8 NPT) for pressurizing the interior to prevent particle intrusion.

Easy Lube System

A standard option on some models, enables easy access for ballscrew and bearing lubrication.

Shaft Brake

The electromagnetic shaft brake option couples directly to the drive screw and is employed primarily on vertical axes to halt carriage motion during a power loss. *Not shown*

Convenient Mounting Slots

Continuous T-slots along the side of the table body provide a convenient means of mounting the table to a work surface as well as mounting accessories to the table.

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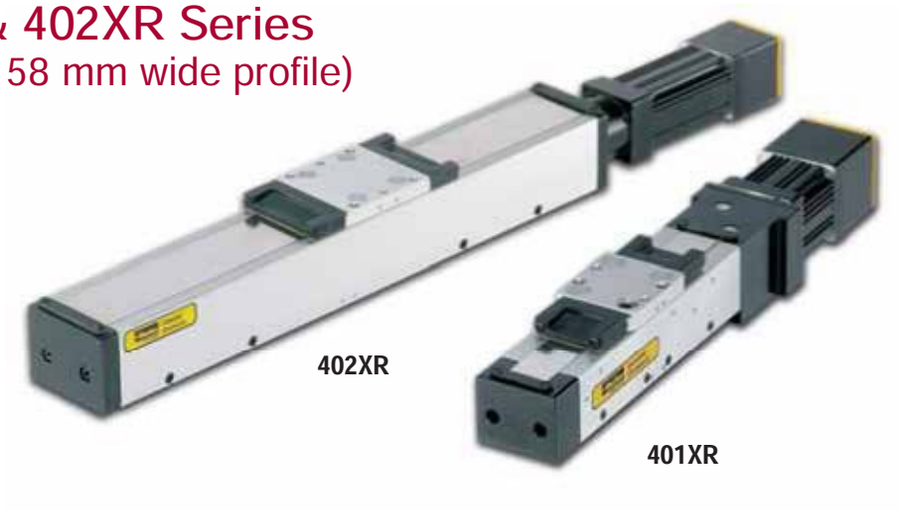
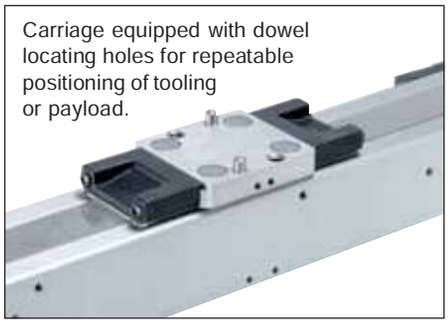
Catalog 8092/USA
Square Rail Linear Tables

High Precision

401XR & 402XR Series
(41 mm & 58 mm wide profile)



The 401XR and 402XR Series positioners enhance the 400XR family of precision linear positioners, addressing applications which involve precise positioning of smaller payloads within a very small space envelope. These ballscrew driven positioners were developed to address the needs of industries such as photonics, life sciences, semiconductor, and instrumentation, where technology advancements dictate miniaturization of work envelopes.


Carriage equipped with dowel locating holes for repeatable positioning of tooling or payload.

	Precision*		Standard	
Common Characteristics	**401XR**	**402XR**	**401XR**	**402XR**
Performance				
Bidirectional Repeatability (µm)				
2 mm lead	±1.3	NA	±5	NA
5 or 10 mm lead	±1.3	±1.3	±12	±12
Duty Cycle	100%	100%	100%	100%
Max Acceleration–m/sec^2 (in/sec^2)	20 (773)	20 (773)	20 (773)	20 (773)
Rated Capacity(1)				
Normal load – kgf (lbs)	50 (110)	100 (220)	50 (110)	100 (220)
Axial load – kgf (lbs)				
2 mm lead	5.5 (12.1)	NA	5.5 (12.1)	NA
5 or 10 mm lead	15.5 (34.2)	38 (84)	15.5 (34.2)	38 (84)
Motor Sizing				
Drive Screw Efficiency	80%	80%	80%	80%
Max Break-Away Torque–Nm (in-oz)	0.03 (4.2)	0.086 (12.0)	0.03 (4.2)	0.086 (12.0)
Max Running Torque(2) – Nm (in-oz)	0.028 (4.0)	0.08 (11.3)	0.028 (4.0)	0.08 (11.3)
Linear Bearing – Coefficient of Friction	0.01	0.01	0.01	0.01
Ballscrew Diameter – mm				
2 mm lead	6	NA	6	NA
5 or 10 mm lead	8	12	8	12
Carriage Weight – kgf (lbs)	0.045 (0.1)	0.11 (0.25)	0.045 (0.1)	0.11 (0.25)

*Requires Linear Encoder Option E 3 or E 4
(1) Refer to life/load charts found on page B13. (2)Ratings established @ 2 rps

Travel Dependent Characteristics

Travel (mm)	Positional Accuracy (µm) 401 P*	401 S	402 P*	402 S	Straightness & Flatness Accuracy (µm) 401	402	Input Inertia 10^{-3} kg-cm^2 401 2 mm	401 10 mm	402 5 mm	402 10 mm	Max Screw Speed (Revs Per Second) 401	402	Unit Weight (kg) 401	402
50	10	20	–	–	20	–	0.6	–	–	–	100	–	1.0	–
100	10	20	10	20	20	20	0.9	–	12.0	–	100	90	1.2	2.3
150	12	20	12	20	20	20	1.1	–	15.0	–	100	90	1.3	2.6
200	16	30	16	30	25	25	–	4.7	20.0	–	100	90	1.5	2.8
300	18	40	18	40	25	25	–	5.2	–	25.0	100	90	1.7	3.2
400	–	–	21	40	–	30	–	–	–	29.0	–	95	–	3.8
600	–	–	25	50	–	30	–	–	–	39.0	–	50	–	4.8

*Accuracy stated is at 20°C utilizing slope correction factor provided.

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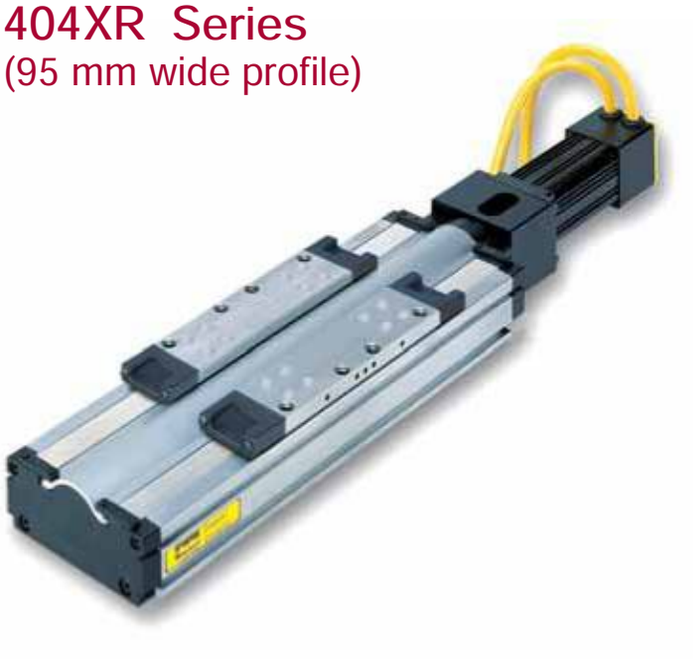
Square Rail Linear Tables

High Precision

404XR Series
(95 mm wide profile)



Parallel Motor Mount-
(with limit/home sensor pack option)

The 404XR is a sleek compact positioner (47.3 x 95 mm profile) capable of carrying 170 kg loads up to a distance of 600 mm. Its quick and accurate positioning capability can be attributed to a high strength extruded housing, square rail ball bearing system, and precision ground ballscrew drive. With its low profile design the 404XR is ideal for height restricted applications, and its lightweight construction makes it well suited as secondary axes on multi-axis systems. These units offer a wide array of easily adapted options and accessories which permit easy configuration to specific requirements.

Common Characteristics		Precision	Standard
Performance			
Bidirectional Repeatability[5] (µm)		±1.3	±3.0
Duty Cycle	Ballscrew	100%	100%
	Leadscrew	75%	75%
Max Acceleration – m/sec² (in/sec²)		20 (773)	20 (773)
Rated Capacity[1]			
Normal load – kgf (lbs)		170 (375)	170 (375)
Axial load – kgf (lbs)[2]	Ballscrew	90 (198)	90 (198)
	Leadscrew	n/a	25(55)
Motor Sizing			
Drive Screw Efficiency	Ballscrew	90%	90%
	Leadscrew	30%	30%
Max Break-Away Torque – Nm (in-oz)		0.13 (18)	0.18 (26)
Max Running Torque[3] – Nm (in-oz)		0.11 (16)	0.17 (24)
Linear Bearing – Coefficient of Friction		0.01	0.01
Ballscrew Diameter (mm)		16	16
Carriage Weight – kg (lbs)		0.70 (1.55)	0.70 (1.55)

(1) Refer to life/load charts found on page B13.
(2) Axial load for parallel mounts is limited by a maximum input torque of 2.5Nm
(3) Ratings established @ 2 rps

Travel Dependent Characteristics

Travel (mm)	Positional[4][5] Accuracy (µm) Prec.	Std.	Straightness & Flatness Accuracy (µm) Prec./Std.	Input Inertia 10^{-5} kg-m² 5 mm	10 mm	20 mm	Max Screw Speed[6] (Revs Per Second) Prec./Std.	Total Table Weight (kg) Prec./Std.
50	8	12	6	1.68	1.81	2.34	60	2.8
100	8	12	6	1.93	2.07	2.60	60	3.0
150	10	14	9	2.19	2.32	2.85	60	3.3
200	12	20	10	2.44	2.57	3.11	60	3.6
250	12	22	12	2.69	2.83	3.36	60	3.9
300	14	24	13	2.95	3.08	3.61	60	4.2
350	14	26	15	3.20	3.33	3.87	60	4.5
400	16	26	16	3.46	3.59	4.12	60	4.8
450	19	28	18	3.71	3.84	4.37	60	5.1
500	21	34	19	3.96	4.10	4.63	60	5.4
550	23	36	21	4.22	4.35	4.88	60	5.7
600	25	40	22	4.47	4.60	5.14	54	6.0

(4) Positional accuracy applies to in-line motor configurations only. Contact factory for parallel motor specifications.
(5) Consult factory for specs with linear encoder.
(6) Consult factory for higher screw speeds.

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Catalog 8092/USA
Square Rail Linear Tables

High Precision

406XR Series
(150 mm wide profile)


Parallel Motor Mount-
(with limit/home sensor pack option)

The 406XR can position high loads (up to 630 kgf) over distances up to two meters. Because of its size and strength (270 Nm, 200 lb-ft. moment load capacity) this durable table is ideal as the base unit in a multi-axis system. From high resolution to high throughput, selectable ballscrew leads (5, 10, 20, 25 mm) make the desired resolution/velocity ratio easy to achieve, and stainless steel seal strips alleviate environmental concerns.

Common Characteristics	Precision	Standard
Performance		
Bidirectional Repeatability(5) (µm)	±1.3	±3.0
Duty Cycle	100%	100%
Max Acceleration – m/sec² (in/sec²)	20 (773)	20 (773)
Rated Capacity(1)		
Normal load – kgf (lbs)	630 (1390)	630 (1390)
Axial load – kgf (lbs)(2)(3)		
0 to 600 mm Travel	90 (198)	90 (198)
700 to 2000 mm Travel	n/a	200 (440)
Motor Sizing		
Drive Screw Efficiency	90%	90%
Max Break-Away Torque – Nm (in-oz)		
0 to 600 mm Travel	0.13 (18)	0.18 (26)
700 to 2000 mm Travel	na	0.39 (55)
Max Running Torque(4) – Nm (in-oz)		
0 to 600 mm Travel	0.11 (16)	0.17 (24)
700 to 2000 mm Travel	na	0.34 (48)
Linear Bearing – Coefficient of Friction	0.01	0.01
Ballscrew Diameter	refer to chart page B23	
Carriage Weight kg (lbs)	2.7 (5.94)	2.7 (5.94)

(1) Refer to life/load charts found on page B13.
(2) Axial load for parallel mounts is limited by a maximum input torque of 2.5Nm for 5,10, & 20 mm lead drives, and 5.1Nm for 25 mm lead drives.
(3) Axial load for parallel mount units with a 25 mm lead = 104kgf (230lb)
(4) Ratings established @ 2 rps

Travel Dependent Characteristics

Travel (mm)	Positional(4)(5) Accuracy (µm) Prec.	Std.	Straightness & Flatness Accuracy (µm) Prec./Std.	Input Inertia 10^{-5} kg-m² 5 mm	10 mm	20 mm	25 mm	Max Screw Speed(6) (Revs Per Second) Prec./Std.	Total Table Weight (kg) Prec./Std.
100	8	12	6	3.34	3.85	5.90	–	60	8.7
200	12	20	10	3.92	4.43	6.48	–	60	10.0
300	14	24	13	4.50	5.01	7.06	–	60	11.3
400	16	26	16	5.08	5.59	7.64	–	60	12.6
500	21	34	19	5.65	6.17	8.22	–	55	13.9
600	25	40	22	6.23	6.75	8.80	–	44	15.2
700	–	92	25	36.51	37.02	–	40.61	47	19.2
800	–	94	29	39.96	40.47	–	44.07	47	20.7
900	–	103	32	43.41	43.93	–	47.52	47	22.2
1000	–	105	35	46.87	47.38	–	50.97	47	23.7
1250	–	118	42	55.50	56.01	–	59.61	35	27.6
1500	–	134	50	64.14	64.65	–	68.24	26	31.4
1750	–	154	57	72.77	73.28	–	76.88	20	35.2
2000	–	159	65	81.40	81.92	–	85.51	16	39.1

(4) Positional accuracy applies to in-line motor configurations only. Contact factory for parallel motor specifications.
(5) Consult factory for specs with linear encoder.
(6) Consult factory for higher screw speeds.

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High Precision

412XR Series
(285 mm wide profile)

The 412XR is a rugged heavy duty linear table (285 mm x 105 mm profile) that enables massive loads (up to 1470 kgf) to be precisely positioned over distances up to two meters. Single point "easy lube" port is standard on carriage assembly for simple servicing and a convenient adapter plate (#100-6784-01) is available for easy X-Y configuration.
An unrivaled array of options combined with mounting compatibility with the smaller 400XR tables makes the 412XR ideal as the base unit for multi-axis positioning of heavier payloads.

General Table Specifications

Common Characteristics		
Screw Lead	5, 10, 25 mm	32 mm
Performance		
Bidirectional Repeatability (µm)	±5	±5
Duty Cycle	100%	100%
Max Acceleration – m/sec² (in/sec²)	20 (773)	20 (773)
Rated Capacity(1)		
Normal load – kgf (lbs)	1470 (3241)	1470 (3241)
Axial load – kgf (lbs)	200 (441)	460 (1014)
Motor Sizing		
Drive Screw Efficiency	90%	80%
Max Break-Away Torque – Nm (in-oz)	0.61 (86)	0.76 (108)
Max Running Torque(2) – Nm (in-oz)	0.55 (78)	0.69 (98)
Linear Bearing – Coefficient of Friction	0.01	0.01
Ballscrew Diameter	25	32
Carriage Weight kg (lbs)	12 (27)	13 (28)

(1) Refer to life/load charts found on page B13.
(2) Ratings established @ 2 rps

Travel Dependent Characteristics

Travel (mm)	Positional(4)(5) Accuracy (µm)	Straightness & Flatness Accuracy (µm)	Input Inertia 10^{-5} kg-m² 5 mm	10 mm	25 mm	32 mm	Max Screw Speed(6) (Revs Per Second) 5,10,25 mm	32 mm	Total Table Weight (kg) 5,10,25 mm	32 mm
150	64	9	27.20	29.45	46.76	98.20	47	42	39.6	41.5
250	66	12	30.21	32.46	49.78	106.28	47	42	42.9	45.0
350	71	15	33.23	35.48	52.79	114.37	47	42	46.2	48.5
650	91	24	42.27	44.52	61.83	138.63	47	42	56.1	59.0
800	94	29	46.79	49.04	66.35	150.76	47	42	61.0	64.2
1000	105	35	52.81	55.06	72.37	166.94	45	42	67.6	71.2
1250	118	42	58.84	61.09	78.40	183.11	34	41	74.2	78.2
1500	134	50	67.87	70.12	87.44	207.38	24	31	84.1	88.7
1750	154	57	75.41	77.66	94.97	227.59	18	24	92.4	97.5
2000	159	65	82.94	85.19	102.50	247.81	15	19	100.6	106.2

(4) Positional accuracy applies to in-line motor configurations only. Contact factory for parallel motor specifications.
(5) Consult factory for specs with linear encoder.
(6) Consult factory for higher screw speeds.

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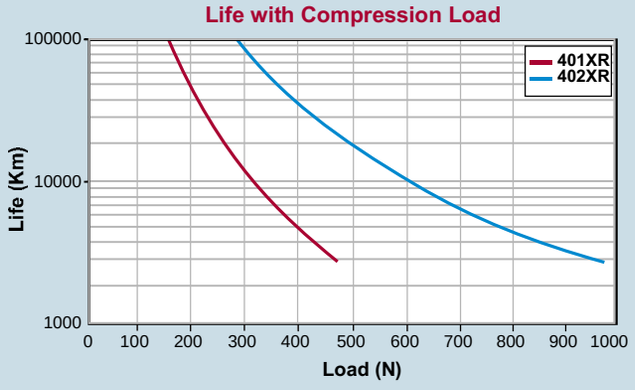
400XR Series Engineering Reference

The following performance information is provided as a supplement to the product specifications pages. The following graphs are used to establish the table life relative to the applied loads. The useful life of a linear table at full catalog specifications is dependent on the forces acting upon it. These forces include both static components resulting from payload weight, and dynamic components due to acceleration/deceleration of the load. In multi-axes applications, the primary positioner at the bottom of the stack usually establishes the load limits for the combined axes. When determining life/load, it is critical to include the weight of all positioning elements that contribute to the load supported by the primary axis.

Table Life/Load Chart
Compression (normal load)

These graphs provide a "rough cut" evaluation of the support bearing life/load characteristics. The curves show the life/load relationship when the applied load is centered on the carriage, normal (perpendicular) to the carriage mounting surface.
For final evaluation of life vs load, including off center, tension, and side loads refer to the charts and formulas found on our web site www.parkermotion.com.



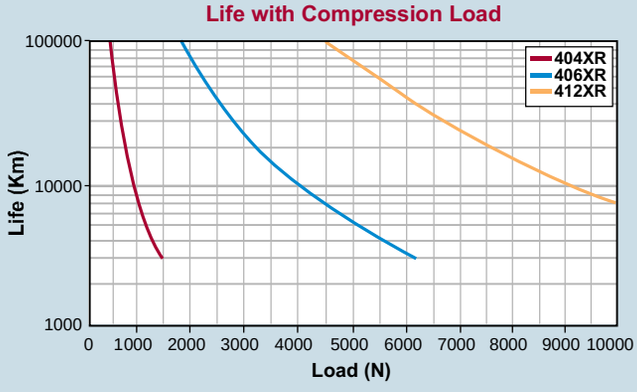
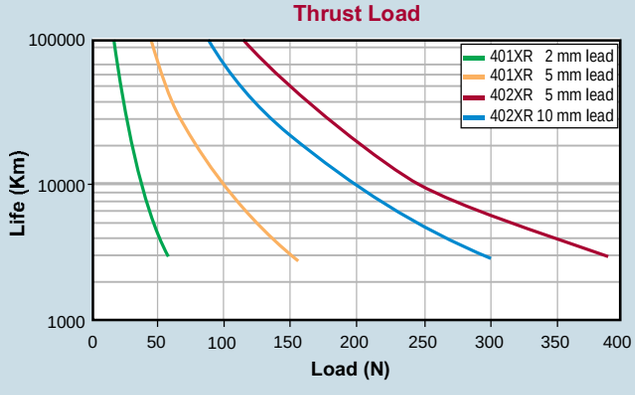
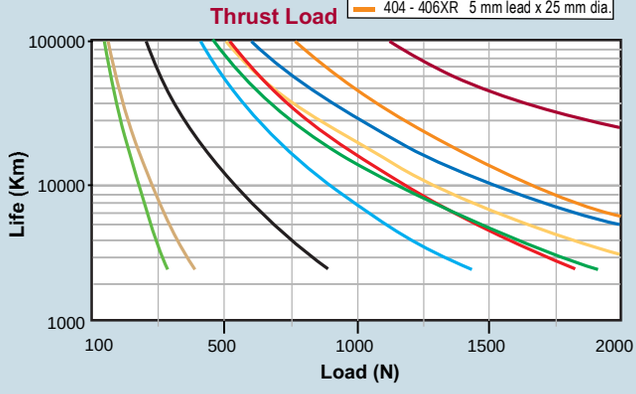


Table Life/Load Chart
Thrust (axial) load

These graphs illustrate table ballscrew life relative to the axial load.





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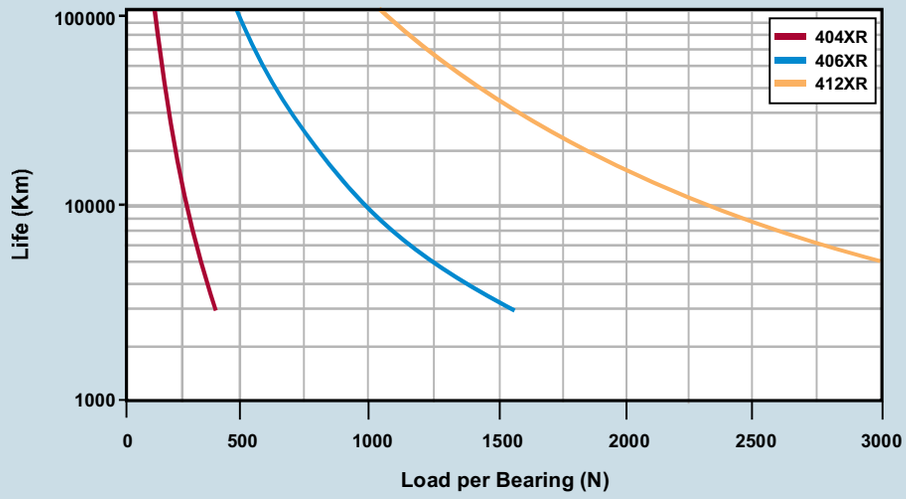
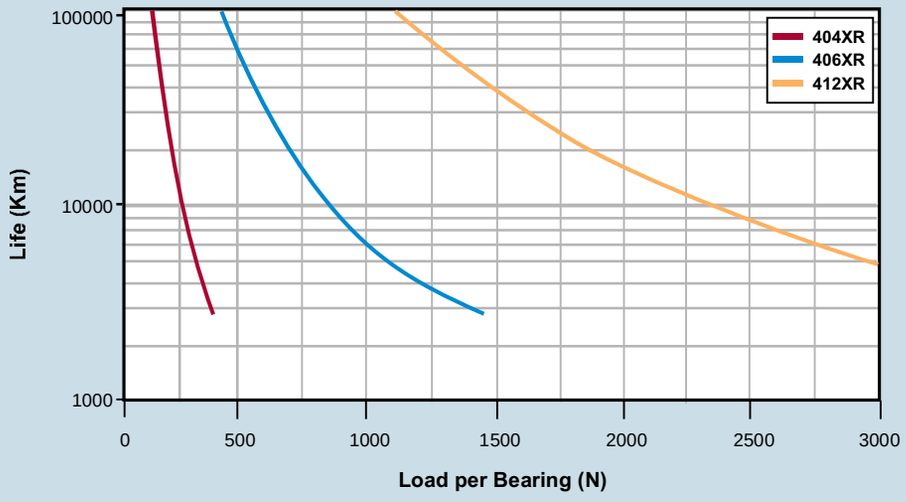
400XR Series Engineering Reference

Bearing Life/Load Charts
Compression (normal load)

Life with Compression or Tension Load



Life with Side Load



These charts are to be used in conjunction with the corresponding formulas found in the product manuals at www.parkermotion.com to establish the life/load for each bearing (4 per table).

Several dimensions, which are specific to each linear positioning table model, and the load geometry are required for these computations. These dimensions are supplied in the catalog information for each positioner. The dimensions are referenced as follows:

- d1 – bearing block center-to-center longitudinal spacing
- d2 – bearing rail center-to-center lateral spacing
- da – Rail center-to-carriage mounting surface

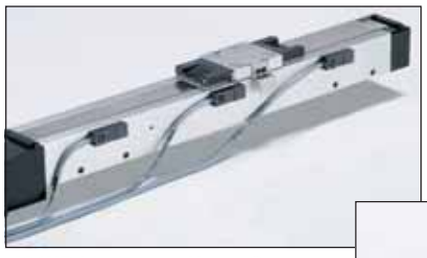
	d1	d2	da
404XR	80	57	28
406XR	114	90.3	42.5
412XR	205	192	43

Refer to Parker's website www.parkermotion.com for moment loading and other engineering data.

Catalog 8092/USA
Square Rail Linear Tables

High Precision

400XR Series Options and Accessories (mm)


401XR Limits and Home Sensor


401XR with Linear Encoder plus Sensor Pack


404XR with Lube Option


406XR with Limit and Home Sensor Pack


404XR with Brake Option


404XR with Air Purge - Standard on all 404XR, 406XR and 412XR units

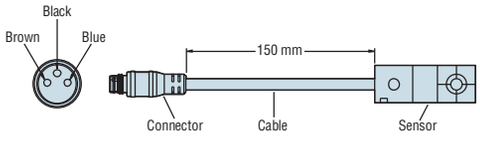
Home H_ or Limit Sensor L_

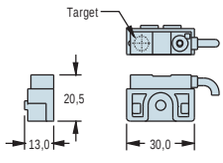
End of Travel and Home Sensors for the 400XR series are available in a variety of styles. The sensors can be ordered as part of the table or as separate components with the associated mounting hardware or in an enclosed sensor pack. A 5 meter "hi-flex" extension cable (Part No. 003-2918-01) is available for use with the 401XR thru 406XR models having the locking connector option.

- NPN (Sinking) or PNP (Sourcing)
- Normally Closed (N.C.) or Normally Open (N.O.)
- Flying Leads or Locking Connector

Input Power	5-30VDC, 20mA
Output	100mA max
Wire Color Code	(+) Supply: Brown (-) Supply: Blue NO Output: Black NC Output: White

Order Code	Part No.** (Includes Mounting Bracket)	Switch Type	Logic	Cable Length	Connector Option
H2 or L2	006-1639-01	N.C.	Sinking	2,0 m	Flying Leads
H3 or L3	006-1639-02	N.O.	Sinking	2,0 m	Flying Leads
H4 or L4	006-1639-03	N.C.	Sourcing	2,0 m	Flying Leads
H5 or L5	006-1639-04	N.O.	Sourcing	2,0 m	Flying Leads
H6 or L6	006-1639-09	N.C.	Sinking	150 mm	Locking Connector
H7 or L7	006-1639-08	N.O.	Sinking	150 mm	Locking Connector
H8 or L8	006-1639-11	N.C.	Sourcing	150 mm	Locking Connector
H9 or L9	006-1639-10	N.O.	Sourcing	150 mm	Locking Connector





Sensor / Bracket Detail

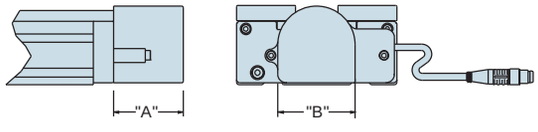
* Applies to 401XR thru 406XR models. 412XR models have limits and homes internally mounted with a connector termination.

**Sensor triggers (targets) ordered separately.

Brake Assembly B2

Electromagnetic brake assembly used to prevent "backdriving" in vertical applications.

Table Series	Part No.	Input Power	Holding Torque	A Dim.	B Dim.
401/402XR	NA	NA	NA	NA	NA
404XR	006-1627-01	24VDC, 0.46A	2.0 N-m	41,5	46,0
406XR	006-1656-01	24VDC, 0.5A	4.5 N-m	49,9	57,5
412XR	002-1916-01	24VDC, 0.75A	9.0 N-m	54,0	72,0



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400XR Series Options and Accessories* (mm)

Rotary Encoder E5

Modular rotary encoder couples directly to the drive screw for position feedback.

Input Power	5VDC, 135mA
Output	A/B quadrature and reference mark, differential line drive output
Resolution	1250 lines/rev equals 5000 counts post quadrature (1µm with 5 mm lead ballscrew)

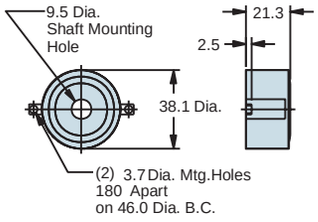


Table Series	Part No.
401/402XR	NA
404XR	006-1629-01
406XR	006-1657-01
412XR	002-1917-01

Note: Dimensions shown apply to 404XR and 406XR models. Consult factory for 412XR dimensions.

Linear Encoder (Tape Scale) E_

A linear position feedback device which mounts directly to the table carriage. (Factory installation required.)

1.0 µm resolution
0.5 µm resolution
0.1 µm resolution

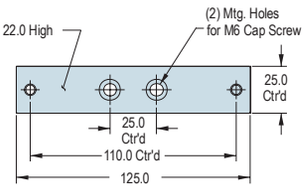
Input Power:	5VDC, 150mA
Output:	A/B quadrature and reference mark, differential line drive output
Resolution:	1.0, 0.5, 0.1 micron

Riser Plate

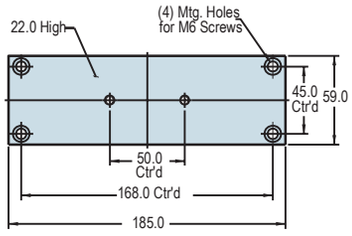
Used to raise the table base to provide clearance for motors.

Table Series	Part No.
401XR	002-2063-01
402XR	002-2064-01
404XR	002-3619-01
406XR	002-3625-01
412XR	NA

002-3619-01 (404XR)



002-3625-01 (406XR)



002-2063-01
002-2064-01

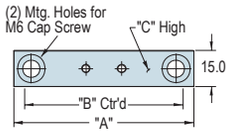


Table Series	"A"	"B"	"C"
401XR	65.0	50.4	17.0
402XR	90.0	75.4	10.0

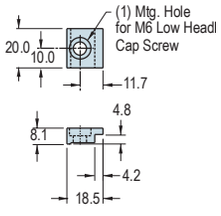
Toe Clamp

Used for convenient outboard mounting of table to a base plate, riser plates, Z-axis bracket, or other 400XR table.

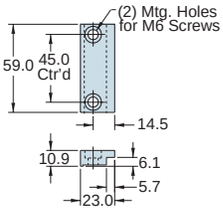
Table Series	Part No.
404XR	002-3618-01*
406XR	002-3624-01*
412XR	002-2160-01*

*All hardware included

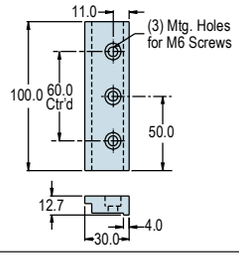
002-3618-01 (404XR)



002-3624-01 (406XR)



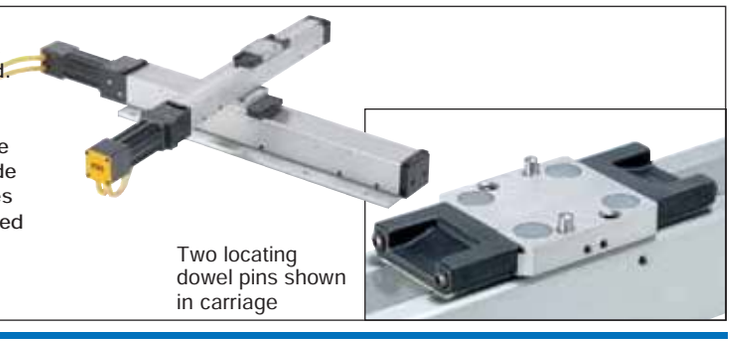
002-2160-01 (412XR)



Dowel Pinning P_

Standard dowel pin locating holes are offered on all 400XR units to facilitate repeatable mounting of tooling or payload. In addition, pinning options (P2 & 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.

*Not available with 401XR or 402XR.



Two locating dowel pins shown in carriage

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Square Rail Linear Tables

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Multi-Axis Configurations

Base Axis (X) Models			Second Axis (Y or Z) Models								
		Orientation	401050XR	401XR >50mm	402XR	404XR	404LXR	406XR	406LXR	412XR/LXR	Wedge
	401XR	X-Y	002-2126-01	002-2065-01	–	–	–	–	–	–	–
		X-Y Cartesian	002-2123-01	002-2068-01	–	–	–	–	–	–	–
		X-Z	–	101-0955-01	–	–	–	–	–	–	–
		X-Z Side Mount	002-2123-01	101-0955-01	–	–	–	–	–	–	–
	402XR	X-Y	002-2130-01	002-2066-01	002-2066-01	–	–	–	–	–	–
		X-Y Cartesian	002-2069-01	002-2069-01	002-2069-01	–	–	–	–	–	–
		X-Z	–	002-2069-01	002-2069-01	–	–	–	–	–	–
		X-Z Side Mount	002-2125-01	002-2069-01	002-2069-01	–	–	–	–	–	–
	404XR/LXR	X-Y	100-9193-01	100-9193-01	100-9193-01	Direct Mount*	100-9584-01	–	–	–	100-9274-01
		X-Y Carriage to Carriage	–	–	–	100-3945-01	100-3945-01	–	–	–	–
		X-Y Cartesian Right Hand	002-2162-01	002-2162-01	002-2162-01	–	–	–	–	–	–
		X-Y Cartesian Left Hand	002-2162-02	002-2162-02	002-2162-02	–	–	–	–	–	–
		X-Z	–	–	–	002-1839-01	–	–	–	–	–
		X-Z Side Mount	–	–	–	002-1840-01	–	–	–	–	–
	406XR/LXR	X-Y	100-9194-01	100-9194-01	100-9194-01	Direct Mount	Direct Mount	Direct Mount	Direct Mount	–	100-9274-01
		X-Y Carriage to Carriage	–	–	–	100-4191-01	100-4191-01	100-4191-01	100-4191-01	–	–
		X-Y Cartesian	–	–	–	002-2163-01	002-2163-01	–	–	–	–
		X-Z	–	–	–	002-1823-01	–	002-1817-01	–	–	–
		X-Z Side Mount	–	–	–	002-1824-01	–	002-1818-01	–		
	412XR/LXR	X-Y	–	–	–	Direct Mount or Toe Clamp	Direct Mount or Toe Clamp	Direct Mount or Toe Clamp	Direct Mount or Toe Clamp	000-67484-01	
		X-Y Cartesian	–	–	–	–	–	002-2164-01	002-2164-01	–	–
	ZP200 Wedge	X-Y	–	–	–	100-9274-01	100-9274-01 or Toe Clamp	100-9274-01 or Toe Clamp	100-9274-01	–	–

* An adaptor plate (100-3945-01) is required whenever the X-axis is a parallel motor mount model.

400XR Series Multi Axis Configurations

These diagrams show the most popular variations of multi-axis configurations.
Both standard and custom brackets are available.

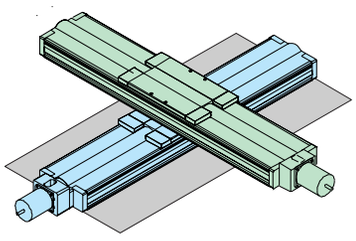

Figure 1
Two Axis (X-Y)
Horizontal Mounting

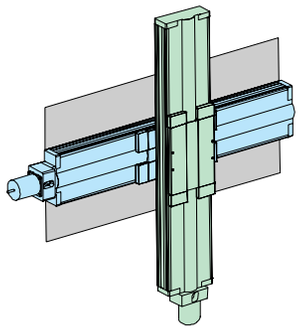

Figure 2
Two Axis (X-Y)
Vertical Mounting

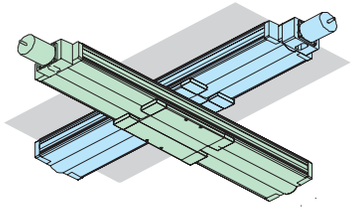

Figure 3
Two Axis (X-Y)
Inverted Mounting

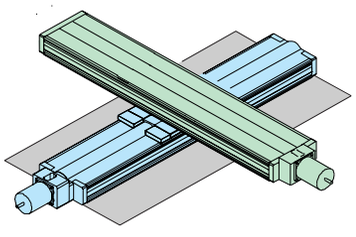

Figure 4
Two Axis-Carriage to Carriage
(Y Axis Inverted)

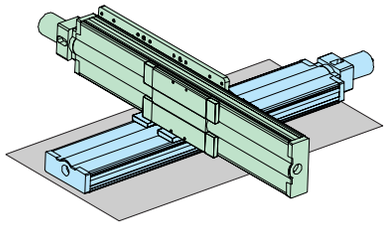

Figure 5
Two Axis Cartesian
Horizontal Mounting

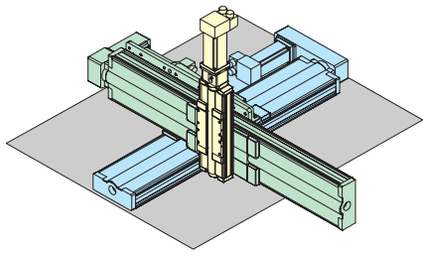

Figure 6
Three Axis Cartesian
Horizontal Mounting

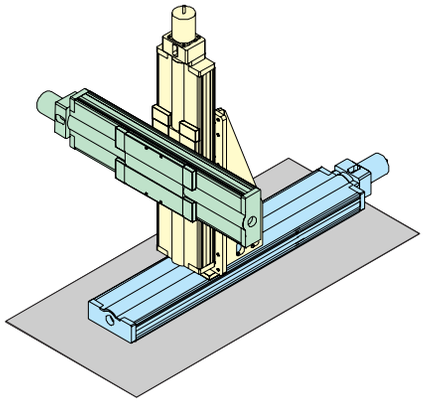

Figure 7
Three Axis (X-Z-Y)
Horizontal Mounting

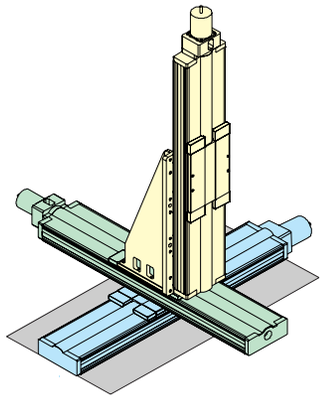

Figure 8
Three Axis (X-Y-Z)
Horizontal Mounting

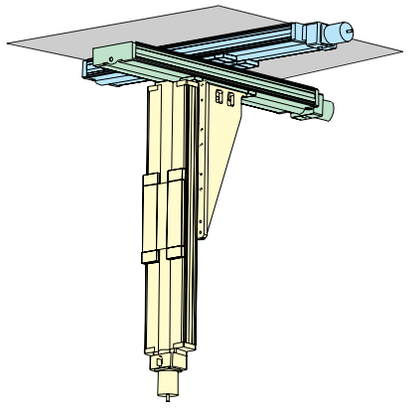

Figure 9
Three Axis (X-Y-Z)
Inverted Mounting

Screw Driven Tables

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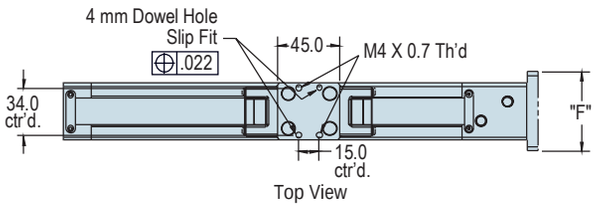
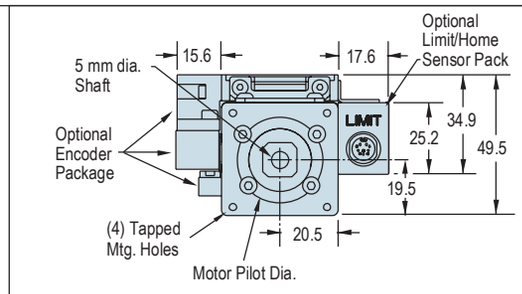
Square Rail Linear Tables

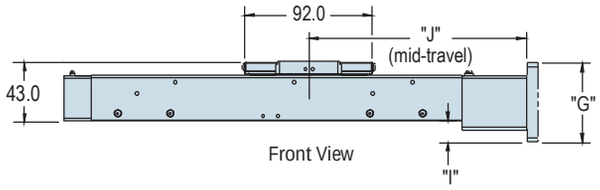
High Precision

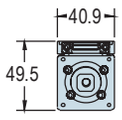
401XR Series - Dimensions (mm)

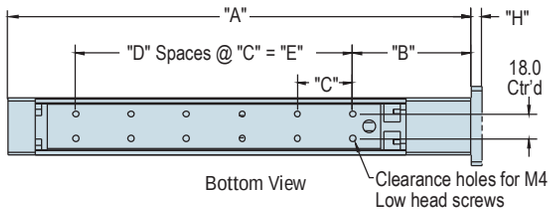




Enlarged End View
(with Encoder and Limit/Home Sensor Pack Option)





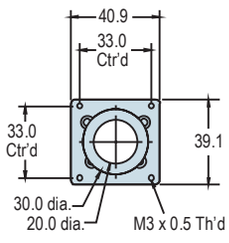


Travel	A	B	C	D	E	J
50	209.3	82.8	80.0	1	80.0	123.0
100	284.3	80.3	40.0	4	160.0	160.0
150	334.3	85.3	40.0	5	200.0	185.0
200	384.3	90.3	40.0	6	240.0	210.0
300	509.3	92.8	40.0	9	360.0	260.0

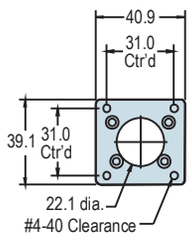
Motor Size	Order Code	F	G	H	I
SM 16	M2	40.9	39.1	0	6.5
NEMA 23/SM 23	M3	57.2	57.2	4.0	15.6
NEMA 17	M37	40.9	39.1	0	6.5
BE 23	M61	57.2	57.2	8.0	15.6

In-Line Motor Adapters

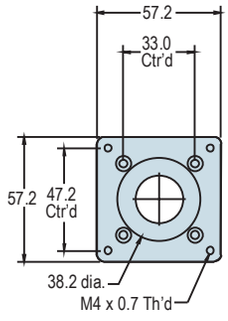
Used to easily accommodate the mounting of different servo or stepper motors.



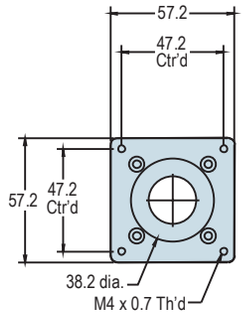
SM 16



NEMA 17



SM 23 or NEMA 23



BE 23

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Square Rail Linear Tables

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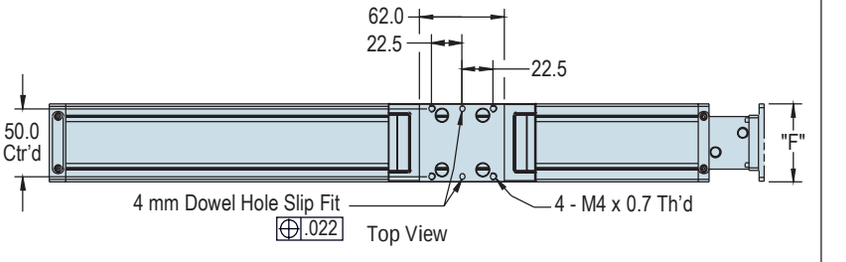
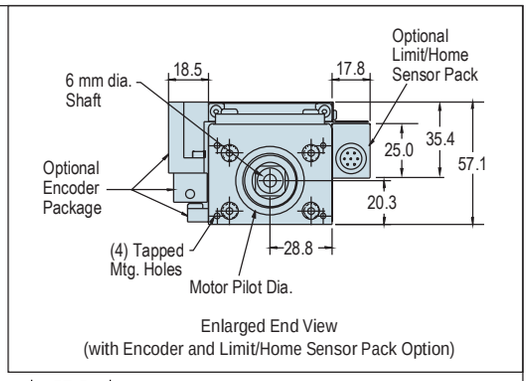
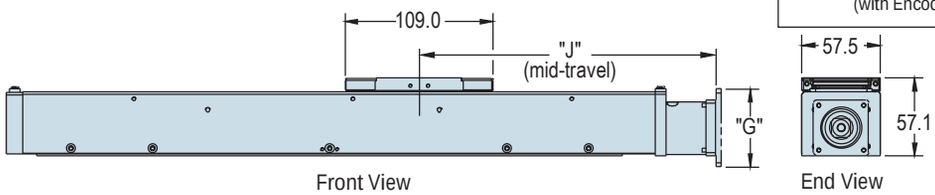
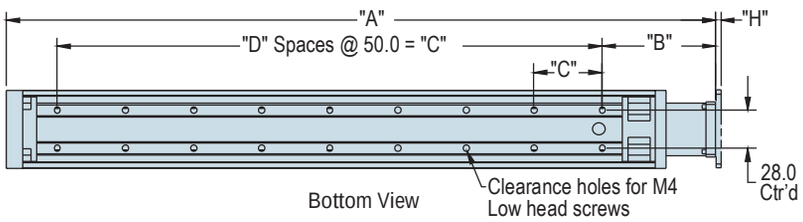
402XR Series - Dimensions (mm)









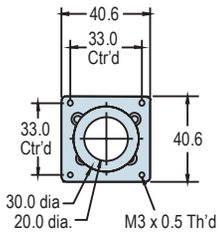
2D & 3D CAD files — Download from parkermotion.com

Travel	A	B	C	D	J
100	320.5	83.5	200.0	4	184.0
150	370.5	83.5	250.0	5	214.0
200	420.5	83.5	300.0	6	234.0
300	520.5	83.5	400.0	8	284.0
400	620.5	83.5	500.0	10	334.0
600	820.5	83.5	700.0	14	434.0

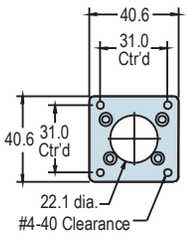
Motor Size	Order Code	F	G	H
SM 16	M2	40.6	40.6	0
NEMA 23/SM 23	M3	57.2	57.2	4.0
NEMA 17	M37	40.6	40.6	0
BE 23	M61	57.2	57.2	8.0

In-Line Motor Adapters

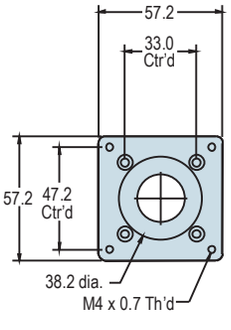
Used to easily accommodate the mounting of different servo or stepper motors.



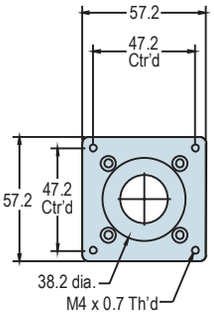
SM 16



NEMA 17



SM 23 or NEMA 23



BE 23

Screw Driven Tables

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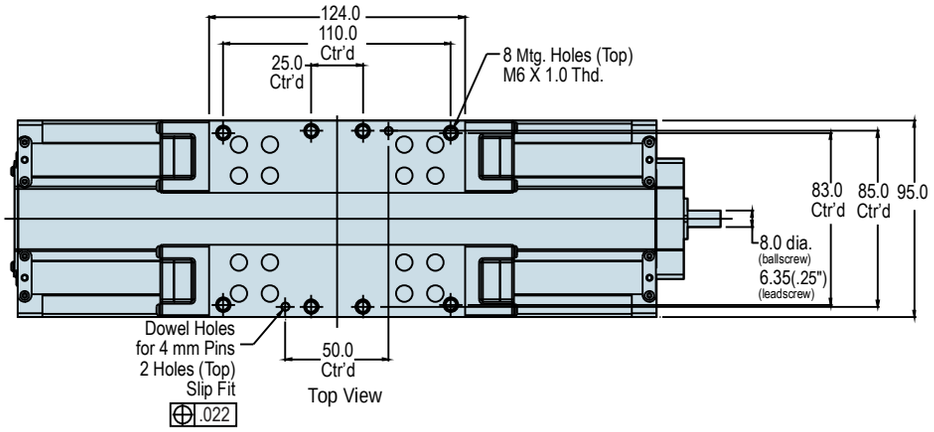
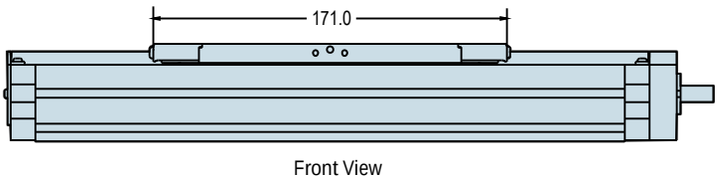
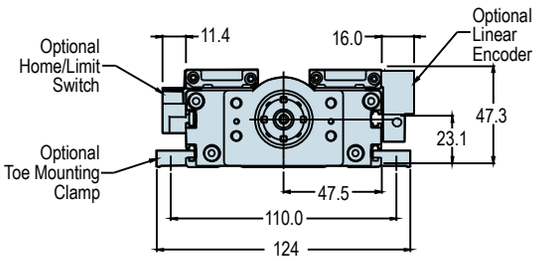
Square Rail Linear Tables

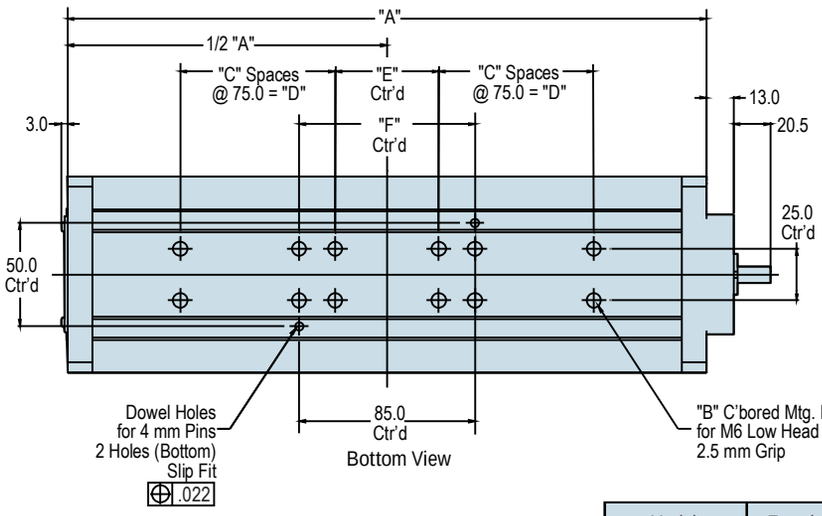
High Precision

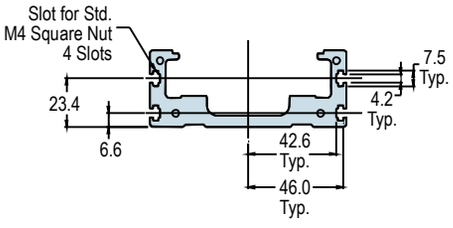
404XR Series Dimensions (mm)











View showing slots in extruded base

Model	Travel	A	B	C	D	E	F
404050XR	50	259	4	-	-	150.0	-
404100XR	100	309	12	1	75.0	50.0	85.0
404150XR	150	359	12	1	75.0	50.0	85.0
404200XR	200	409	12	1	75.0	50.0	85.0
404250XR	250	459	16	2	150.0	50.0	85.0
404300XR	300	509	16	2	150.0	50.0	85.0
404350XR	350	559	16	2	150.0	50.0	85.0
404400XR	400	609	20	3	225.0	50.0	85.0
404450XR	450	659	20	3	225.0	50.0	85.0
404500XR	500	709	20	3	225.0	50.0	85.0
404550XR	550	759	24	4	300.0	50.0	85.0
404600XR	600	809	24	4	300.0	50.0	85.0

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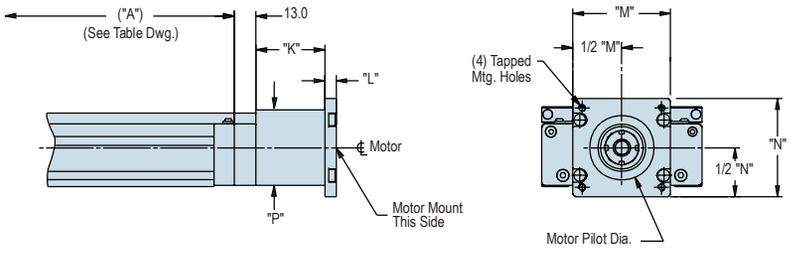
404XR Series Motor Mount - Dimensions (mm)

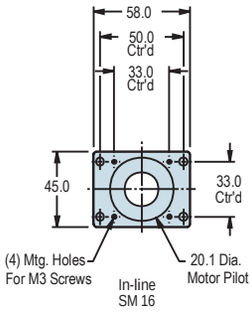
In-line motor mounting allows the motor to be mounted directly to the drive screw via the selected motor coupling.

Used to easily accommodate the mounting of different frame sizes. These adapter plates can be ordered separately by part number below.

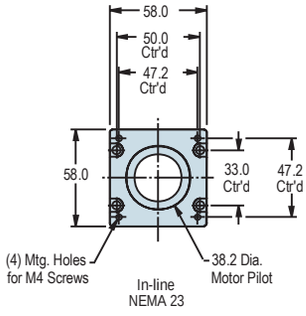


Motor Size	Order Code	Max. Motor Shaft Dia.	"K"	"L"	"M"	"N"	"P"
SM 16	M2	9.5	41.0	4.3	58.0	45.0	45.0
NEMA 23	M3	9.5	41.0	6.5	58.0	58.0	45.0
NEMA 34	M4	9.5	41.0	12.5	83.0	83.0	45.0
NEOMETRIC 70	M21	11.0	53.0	0.0	69.9	69.9	69.9

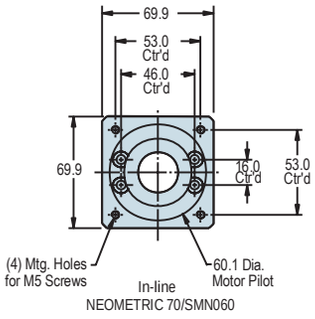
Part No. 002-3614-01
SM 16



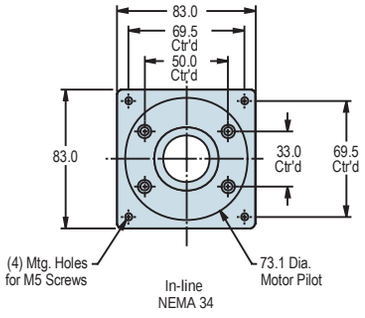
Part No. 002-3615-01
NEMA 23



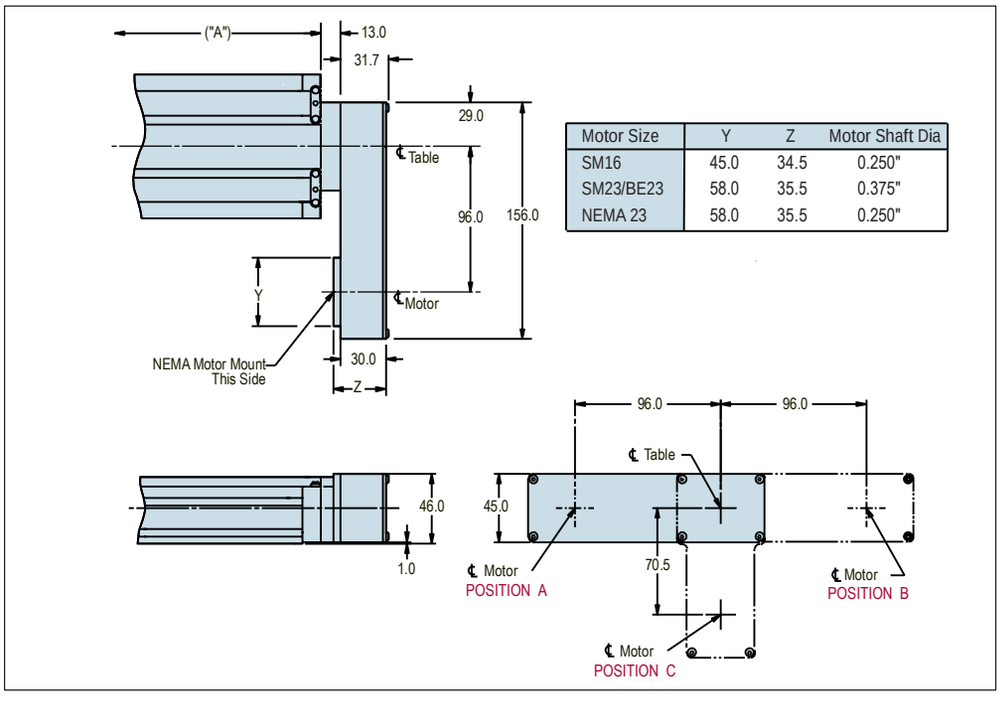
Part No. 002-3616-01
NEOMETRIC 70/SMN060



Part No. 002-3617-01
NEMA 34

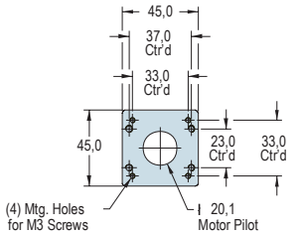


Parallel motor mounting is employed whenever a shorter overall unit length is needed. The motor is positioned along the sides or bottom of the table as designated by position A, B, or C. (No coupling required)



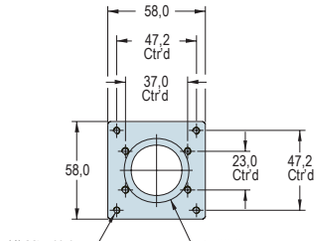
Motor Size	Y	Z	Motor Shaft Dia
SM16	45.0	34.5	0.250"
SM23/BE23	58.0	35.5	0.375"
NEMA 23	58.0	35.5	0.250"

SM 16



Reverse
SM 16

NEMA 23



Reverse
NEMA 23

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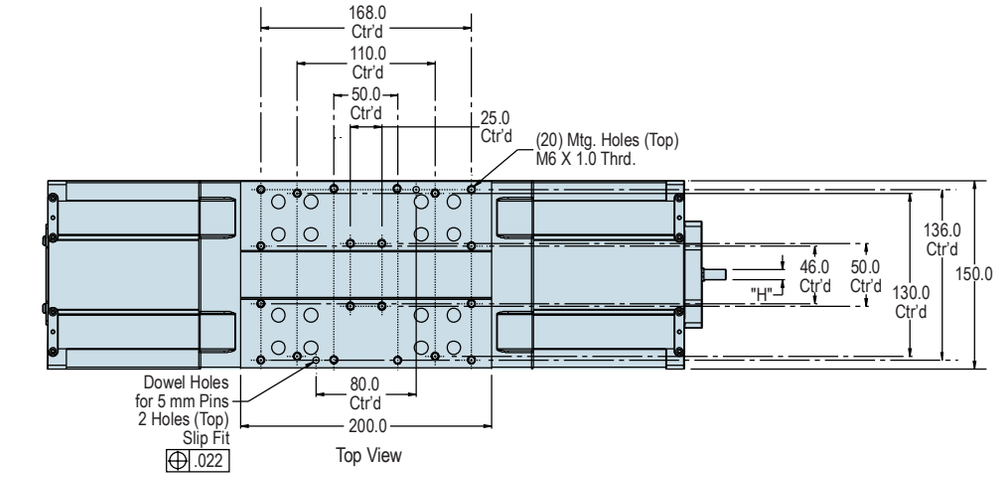
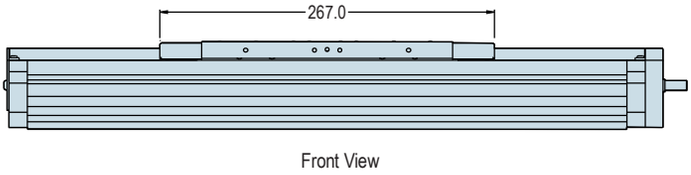
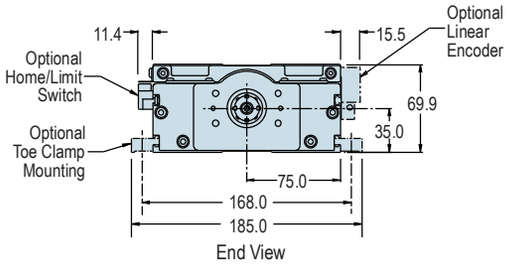
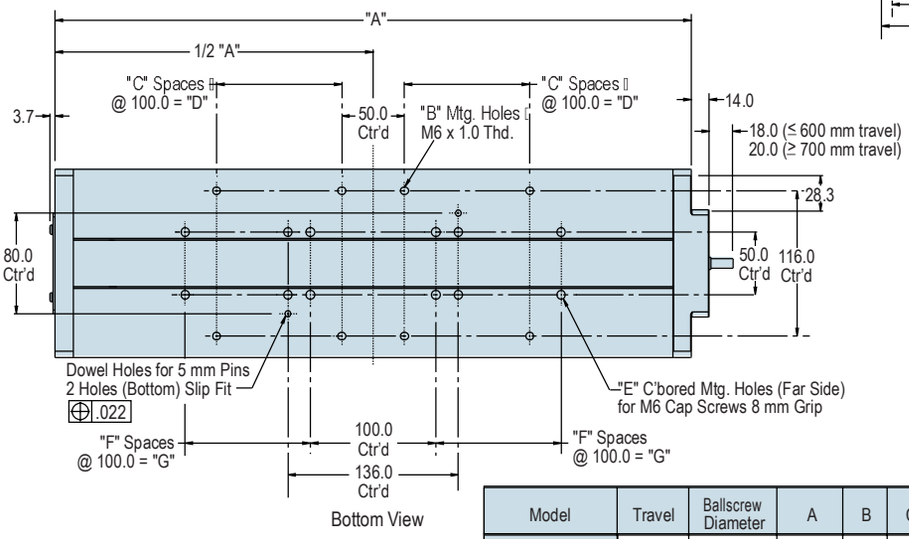
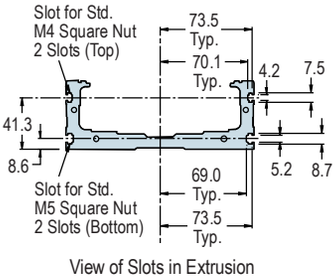
406XR Series Dimensions (mm)











Model	Travel	Ballscrew Diameter	A	B	C	D	E	F	G	H
4060100XR	100	16	408	8	1	100.0	12	1	100.0	8.0
4060200XR	200	16	508	8	1	100.0	12	1	100.0	8.0
4060300XR	300	16	608	12	2	200.0	16	2	200.0	8.0
4060400XR	400	16	708	12	2	200.0	16	2	200.0	8.0
4060500XR	500	16	808	16	3	300.0	20	3	300.0	8.0
4060600XR	600	16	908	16	3	300.0	20	3	300.0	8.0
4060700XR	700	25	1008	20	4	400.0	24	4	400.0	10.0
4060800XR	800	25	1108	20	4	400.0	24	4	400.0	10.0
4060900XR	900	25	1208	24	5	500.0	28	5	500.0	10.0
4061000XR	1000	25	1308	24	5	500.0	28	5	500.0	10.0
4061250XR	1250	25	1558	32	7	700.0	32	6	600.0	10.0
4061500XR	1500	25	1808	36	8	800.0	40	8	800.0	10.0
4061750XR	1750	25	2058	40	9	900.0	44	9	900.0	10.0
4062000XR	2000	25	2308	44	10	1000.0	48	10	1000.0	10.0

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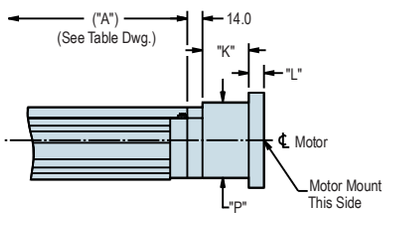
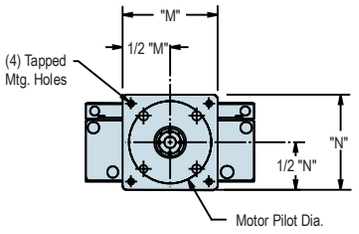
406XR Series - Motor Mount Dimensions (mm)

In-line motor mounting allows the motor to be mounted directly to the drive screw via the selected motor coupling.

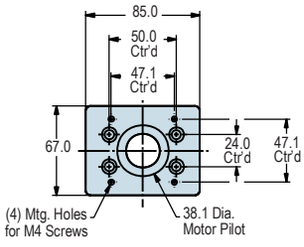
Used to easily accommodate the mounting of different frame sizes. These adapter plates can be ordered separately by part number below.





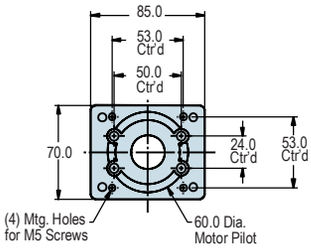
Motor Size	Order Code	Max Motor Shaft Dia.	K	L	M	N	P
NEMA 23/SM 23	M3	9.5	41.0	0.0	85.0	67.0	67.0
NEMA 34 NEOMETRIC 34	M4. M17	16.0	53.0	13.5	85.0	85.0	70.0
NEOMETRIC 70	M21	16.0	53.0	0.0	85.0	70.0	70.0
NEOMETRIC 92	M29	16.0	53.0	12.5	92.0	92.0	70.0

Part No. 002-3620-01
NEMA 23 or SM 23



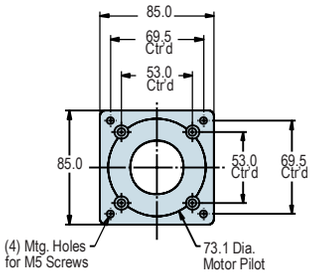
In-line NEMA 23/SM 23 Coupling Housing

Part No. 002-3621-01
NEO 70 / SMN060



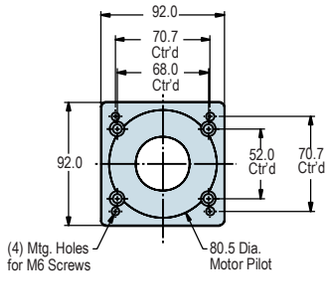
In-line NEOMETRIC 70 / SMN060 Coupling Housing

Part No. 002-3622-01
NEMA 34 or NEO 34



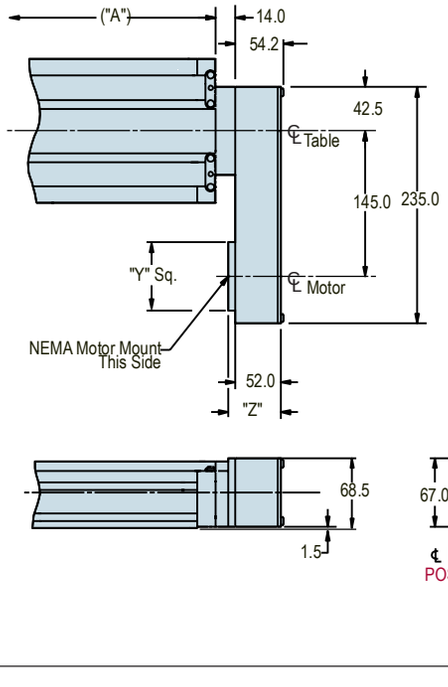
In-line NEMA 34 NEOMETRIC 34 Adaptor Plate

Part No. 002-3623-01
NEO 92 / SMN082

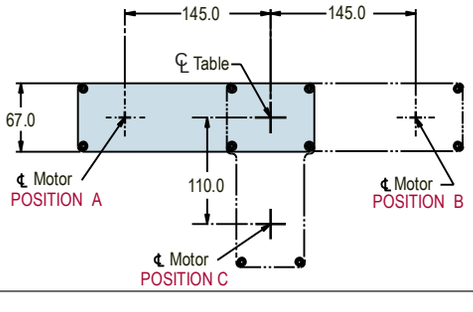


In-line NEOMETRIC 92 / SMN082 Adaptor Plate

Parallel motor mounting is employed whenever a shorter overall unit length is needed. The motor is positioned along the sides or bottom of the table as designated by position A, B, or C. (No coupling required.)



Motor Size	Y	Z	Motor Shaft Dia
SM23/BE23	70.0	57.5	0.375"
NEMA 34	83.0	62.0	0.375"
NEOMETRIC 34	83.0	62.0	0.500"
NEOMETRIC 70	70.0	62.0	11mm



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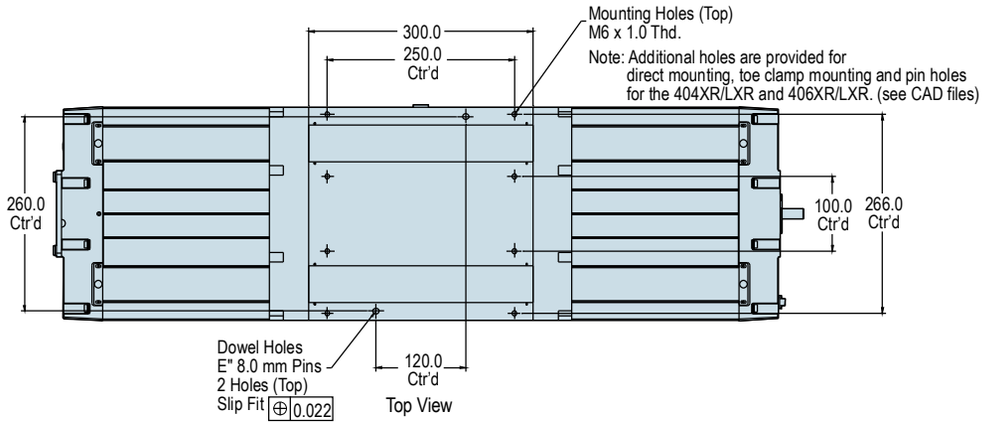
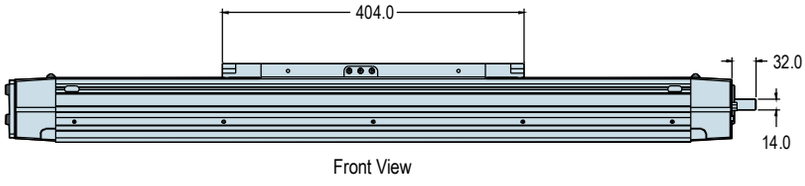
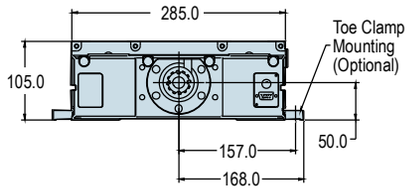
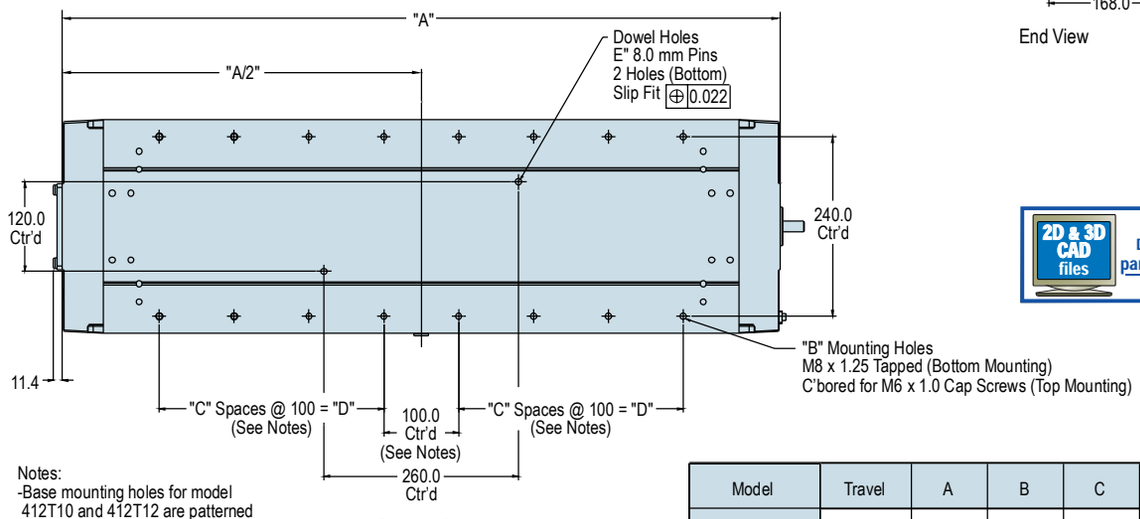
412XR Series - Dimensions (mm)

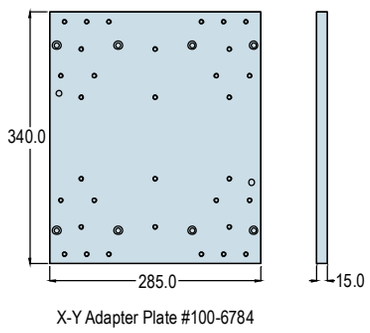








Notes:
-Base mounting holes for model 412T10 and 412T12 are patterned from one hole on centerline



Model	Travel	A	B	C	D
412T01	150.0	764.0	12	2	200.0
412T02	250.0	864.0	16	3	300.0
412T03	350.0	964.0	16	3	300.0
412T04	650.0	1264.0	24	5	500.0
412T05	800.0	1414.0	24	5	500.0
412T06	1000.0	1614.0	28	6	600.0
412T07	1200.0	1814.0	32	7	700.0
412T08	1500.0	2114.0	40	9	900.0
412T09	1750.0	2364.0	44	10	1000.0
412T10	2000.0	2614.0	50	12*	1200.0

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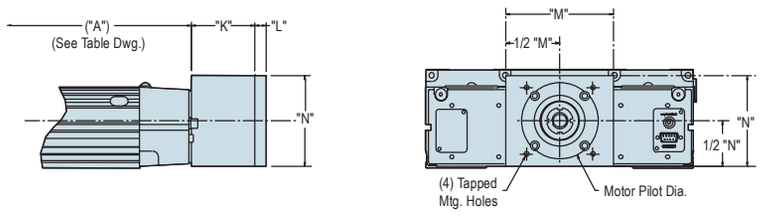
412XR Series Motor Mount Dimensions (mm)

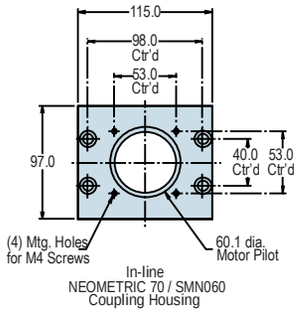
In-line motor mounting allows the motor to be mounted directly to the drive screw via the selected motor coupling.

Used to easily accommodate the mounting of different frame sizes. These adapter plates can be ordered separately by part number below.

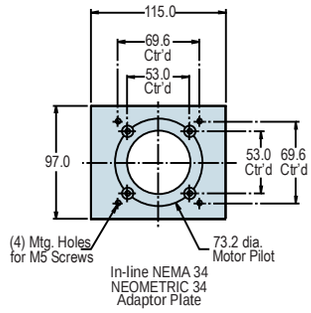


Motor Size	Order Code	K	L	M	N
NEMA 34	M4	68.0	12.0	115.0	97.0
NEO 34	M17	68.0	12.0	115.0	97.0
NEO 70	M21	68.0	-	115.0	97.0
NEO 92	M29	68.0	12.0	115.0	97.0
M105,SMN100	M33	100.0	-	115.0	115.0

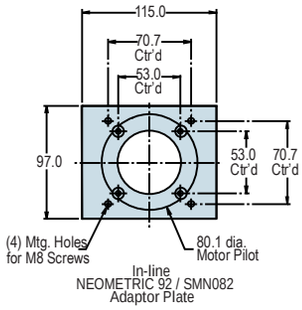
Part No. 002-1907-01
NEO 70 / SMN060



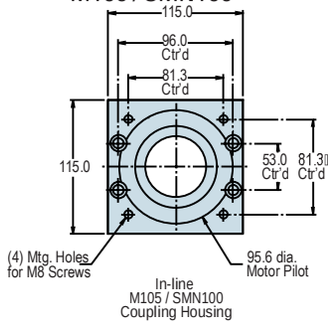
Part No. 002-1907-02
NEMA 34 or NEO 34



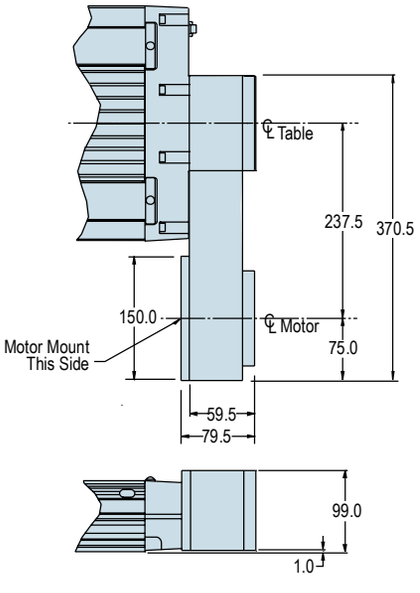
Part No. 002-1907-03
NEO 92 / SMN082



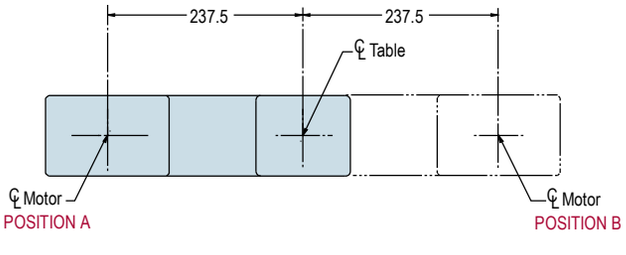
Part No. 002-1907-04
M105 / SMN100



Parallel motor mounting is employed whenever a shorter overall unit length is needed.
The motor is positioned along the sides or bottom of the table as designated by position A, B, or C.
(No coupling required.)



Motor Size	Part Number	Bolt Circle	Pilot Dia.	Shaft Dia.
NEO 70	002-1908-01	75.0	60.1	11.0mm
NEMA 34	002-1908-02	98.4	73.2	0.375"
NEO 34	002-1908-02	98.4	73.2	0.500"
NEO 92	002-1908-03	100.0	80.1	14.0mm



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401/402XR Series - How to Order

Order Example: 401 | 100 | XR | M | S | D9 | H3

Series
- 401
- 402

Travel (mm)
- 50 — 050
- 100 — 100
- 150 — 150
- 200 — 200
- 300 — 300
- 400 — 400
- 600 — 600

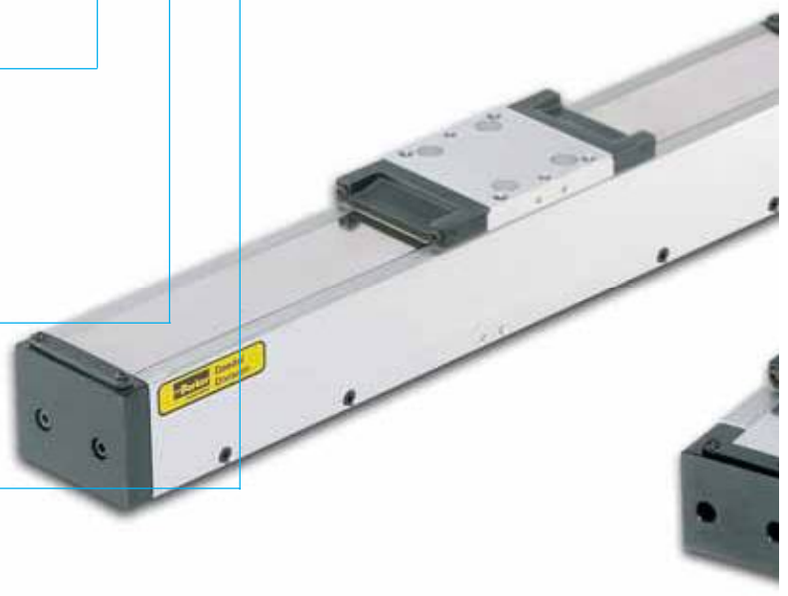
Model
- XR

Mounting (metric)
- M

Grade
- Standard — S
- Precision (E3 or E4 encoder option required) — P

Drive Screw
- 5 mm Lead — D2
- 10 mm Lead — D3
- 2 mm Lead — D9

Home Sensor
- No sensor — H1
- N.C. current sinking flying leads — H2
- N.O. current sinking flying leads — H3
- N.C. current sourcing flying leads — H4
- N.O. current sourcing flying leads — H5
- N.C. current sinking locking connector — H6
- N.O. current sinking locking connector — H7
- N.C. current sourcing locking connector — H8
- N.O. current sourcing locking connector — H9
- N.C. current sinking-sensor pack — H11
- N.O. current sinking-sensor pack — H12
- N.C. current sourcing-sensor pack — H13
- N.O. current sourcing-sensor pack — H14



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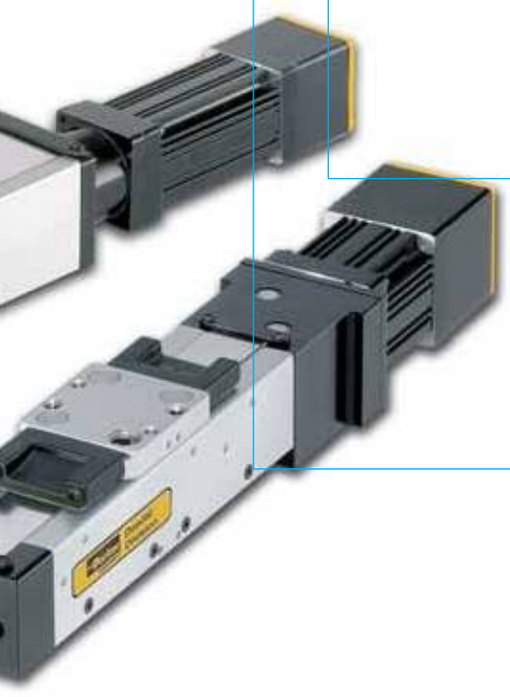
L2 C3 M2 E2 R1



R1 Required Designator

Encoder Option
- E1 No encoder
- E2 1 µm resolution linear
- E3 0.5 µm resolution linear
- E4 0.1 µm resolution linear

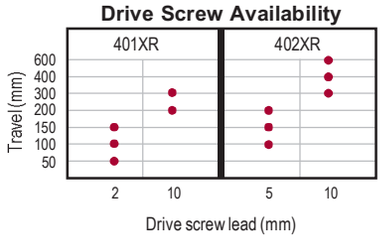
Motor Mount
- M2 SM16 - Inline mounting
- M3 NEMA23 - Inline mounting
- M37 NEMA17 - Inline mounting
- M61 BE23 - Inline mounting

Motor Coupling
- C1 No coupling
- C2 6,3 mm (.25 in) bore Oldham
- C3 6,3 mm (.25 in) bore Bellows
- C4 9,5 mm (.38 in) bore Oldham (402XR only)*
- C5 9,5 mm (.38 in) bore Bellows*
- C24 5 mm (.20 in) bore Oldham
- C25 5 mm (.20 in) bore Bellows

*NEMA 23 frame size only (M3, M61)

Limit Sensors
- L1 No sensor
- L2 N.C. current sinking flying leads
- L3 N.O. current sinking flying leads
- L4 N.C. current sourcing flying leads
- L5 N.O. current sourcing flying leads
- L6 N.C. current sinking locking connector
- L7 N.O. current sinking locking connector
- L8 N.C. current sourcing locking connector
- L9 N.O. current sourcing locking connector
- L11 N.C. current sinking-sensor pack
- L12 N.O. current sinking-sensor pack
- L13 N.C. current sourcing-sensor pack
- L14 N.O. current sourcing-sensor pack

Drive Screw Availability



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404XR Series - How to Order

Order Example: 404 | 450 | XR | M | S | – | D33 | – | H4 | L9

Model Series 404

Table Travel

50 mm	50	350 mm	350
100 mm	100	400 mm	400
150 mm	150	450 mm	450
200 mm	200	500 mm	500
250 mm	250	550 mm	550
300 mm	300	600 mm	600

Table Style ..... XR

Mounting (Metric) ..... M

Grade

Precision grade ..... P
Standard grade ..... S

Drive Screw

Free travel	D1	1 mm V thread leadscrew	D31
5 mm ballscrew	D2	2 mm V thread leadscrew	D32
10 mm ballscrew	D3	5 mm V thread leadscrew	D33
20 mm ballscrew		.10" V thread leadscrew	D34
(standard grade only)	D4	.10" acme thread leadscrew	D35

Home Sensor Ass'y. (one sensor)

No home sensor	H1
N.C. current sinking, flying leads	H2
N.O. current sinking, flying leads	H3
N.C. current sourcing, flying leads	H4
N.O. current sourcing, flying leads	H5
N.C. current sinking, w/locking connector	H6
N.O. current sinking, w/locking connector	H7
N.C. current sourcing, w/locking connector	H8
N.O. current sourcing, w/locking connector	H9
N.C. current sinking-sensor pack	H11
N.O. current sinking-sensor pack	H12
N.C. current sourcing-sensor pack	H13
N.O. current sourcing-sensor pack	H14

Travel Limit Sensor Ass'y (two sensors)

No limit sensors	L1	N.C. current sourcing, w/locking connector	L8
N.C. current sinking, flying leads	L2	N.O. current sourcing, w/locking connector	L9
N.O. current sinking, flying leads	L3	N.C. current sinking-sensor pack	L11
N.C. current sourcing, flying leads	L4	N.O. current sinking-sensor pack	L12
N.O. current sourcing, flying leads	L5	N.C. current sourcing-sensor pack	L13
N.C. current sinking, w/locking connector	L6	N.O. current sourcing-sensor pack	L14
N.O. current sinking, w/locking connector	L7		

Note: Sensors with locking connector include 5 meter extension cable.

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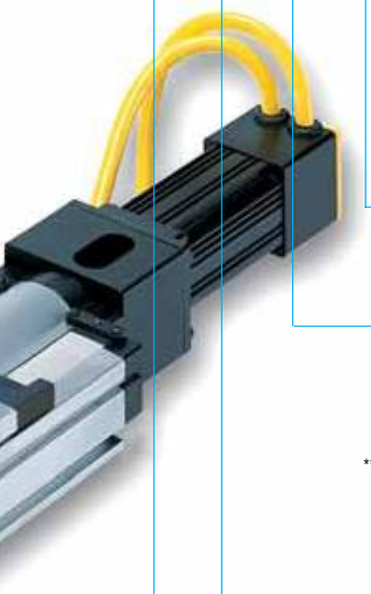
Catalog 8092/USA
Square Rail Linear Tables

High Precision

C3 M4 E1 B1 R1 P1



Pinning Options

P1	No multi-axis pinning
P2	X axis transfer pinning to Y or Z axis - 30 arc seconds
P3	Y axis transfer pinning to X axis - 30 arc seconds
P4	Z axis transfer pinning to X axis - 30 arc seconds
P5	X axis standard pinning to Y axis - 125 arc seconds
P6	Y axis standard pinning to X axis - 125 arc seconds

Cleanroom Preparation

R1	Class 1000 compatible (standard)
R2	Class 10 compatible (consult factory for details)
R5	Class 1000 (Std.) with easy lube system
R7	Class 1000 with external stainless hardware
R8	Class 10 with external stainless hardware
R9	Class 1000 with easy lube system & external stainless hardware

Brake Option

B1	No brake
B2	Shaft brake**

**Brake option cannot be used in conjunction with Rotary encoder option. Refer to holding torque chart (page B15) to confirm maximum load.

Encoder Option

E1	No encoder
E2	Linear encoder (tape scale) 1 micron
E3	Linear encoder (tape scale) 0.5 micron
E4	Linear encoder (tape scale) 0.1 micron
E5	Rotary shaft encoder**

Motor Mount***

*** See page B22 for maximum allowable motor shaft diameter. Parallel motor mounts are not available with leadscrew drives.

M1	No motor mount
M2	SM 16 - In-line mounting
M3	NEMA 23 & SM 23 - In-line mounting
M4	NEMA 34 - In-line mounting
M5	SM16 - Parallel mounting, "A" location
M6	SM16 - Parallel mounting, "B" location
M7	SM16 - Parallel mounting, "C" location
M8	NEMA 23 - Parallel mounting, "A" location
M9	NEMA 23 - Parallel mounting, "B" location
M10	NEMA 23 - Parallel mounting, "C" location
M11	SM23 - Parallel mounting, "A" location
M12	SM23 - Parallel mounting, "B" location
M13	SM23 - Parallel mounting, "C" location
M21	Neometric 70 - In-line mounting
M37	NEMA 17 - In-line mounting
M42	SM232AQ-NPSN Servo motor - In-line mtg.
M46	HV232-02-10 Stepper Motor - In-line mtg.
M49	Handcrank / no read out
M50	Handcrank w/ read out (0.10 or 1 mm leads only)
M61	BE23 - In-line mounting
M62	BE23 - Parallel mounting, "A" location
M63	BE23 - Parallel mounting, "B" location
M64	BE23 - Parallel mounting, "C" location
M71	SGM01 - In-line mounting
M75	SGM02 - In-line mounting

Motor Coupling

C1	No coupling (req. for parallel mounting)
C2	0.250" Oldham
C3	0.250" Bellows (required for prec.grade)
C4	0.375" Oldham
C5	0.375" Bellows (required for prec.grade)
C6	11 mm Oldham
C7	11 mm Bellows (req. for prec.grade)
C10	14 mm Oldham (M75 motor option)
C11	14 mm Bellows (M75 motor option)
C22	9 mm Oldham
C23	9 mm Bellows
C24	5 mm Oldham (M37 NEMA 17 w/5mm shaft)
C25	5 mm Bellows (M37 NEMA 17 w/5mm shaft)
C26	8 mm Oldham (M71 motor option)
C27	8 mm Bellows (M71 motor option)
C28	0.188" Oldham (M37 NEMA 17)
C29	0.188" Bellows (M37 NEMA 17)
C30	0.250" Oldham†
C31	0.250" Bellows†
C32	0.375" Oldham†
C33	0.375" Bellows†
C39	9mm Bellows†

†Couplings for leadscrew drive

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406XR Series - How to Order

Order Example: 406 900 XR M S – D3 H4 L8

Model Series 406

Table Travel

100 mm	100	800 mm	800
200 mm	200	900 mm	900
300 mm	300	1000 mm	1000
400 mm	400	1250 mm	1250
500 mm	500	1500 mm	1500
600 mm	600	1750 mm	1750
700 mm	700	2000 mm	2000

Table Style ..... XR

Mounting (Metric) ..... M

Grade

Precision grade (max travel 600 mm) ..... P

Standard grade (max travel 2000 mm) ..... S

Drive Screw

Free travel D1

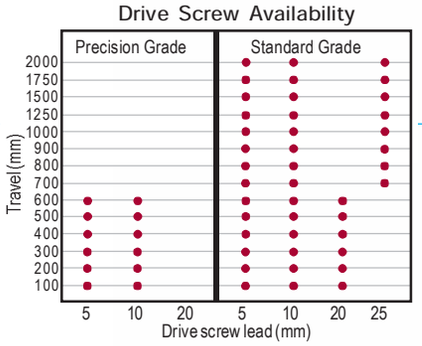
5 mm ballscrew D2

10 mm ballscrew D3

20 mm ballscrew D4

25 mm ballscrew D5

Drive Screw Availability



Home Sensor Assembly (one sensor)

No home sensor H1

N.C. current sinking, flying leads H2

N.O. current sinking, flying leads H3

N.C. current sourcing, flying leads H4

N.O. current sourcing, flying leads H5

N.C. current sinking, w/locking connector H6

N.O. current sinking, w/locking connector H7

N.C. current sourcing, w/locking connector H8

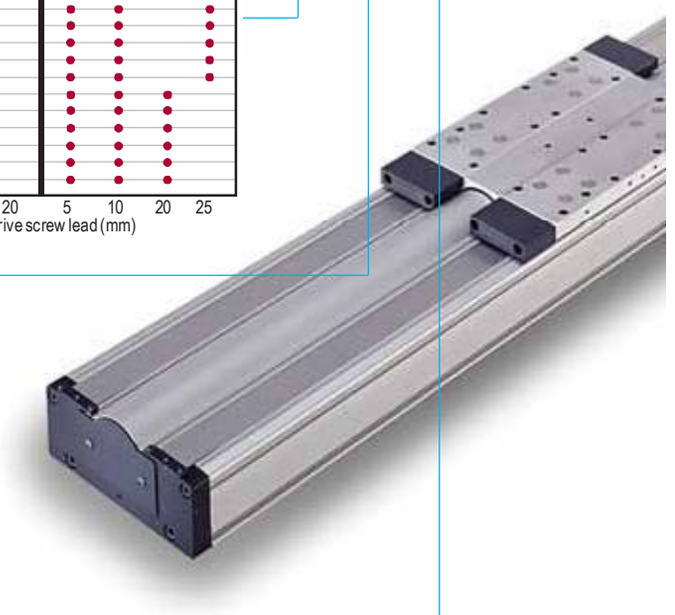
N.O. current sourcing, w/locking connector H9

N.C. current sinking-sensor pack H11

N.O. current sinking-sensor pack H12

N.C. current sourcing-sensor pack H13

N.O. current sourcing-sensor pack H14



Travel Limit Sensor Assembly (two sensors)

No limit sensors L1

N.C. current sinking, flying leads L2

N.O. current sinking, flying leads L3

N.C. current sourcing, flying leads L4

N.O. current sourcing, flying leads L5

N.C. current sinking, w/locking connector L6

N.O. current sinking, w/locking connector L7

N.C. current sourcing, w/locking connector L8

N.O. current sourcing, w/locking connector L9

N.C. current sinking-sensor pack L11

N.O. current sinking-sensor pack L12

N.C. current sourcing-sensor pack L13

N.O. current sourcing-sensor pack L14

Note: Sensors with locking connector include 5 meter extension cable.

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Catalog 8092/USA

Square Rail Linear Tables

High Precision

C7 | M4 | E1 | B1 | R1 | P1

Pinning Option

- P1 No multi-axis pinning
- P2 X axis transfer pinning to Y or Z axis - 30 arc seconds
- P3 Y axis transfer pinning to X axis - 30 arc seconds
- P4 Z axis transfer pinning to X axis - 30 arc seconds
- P5 X axis standard pinning to Y axis - 125 arc seconds
- P6 Y axis standard pinning to X axis - 125 arc seconds

Cleanroom Preparation

- R1 Class 1000 compatible (standard)
- R2 Class 10 compatible (consult factory for details)

Brake Option

- B1 No brake
- B2 Shaft brake*

* Brake option cannot be used in conjunction with Rotary encoder option. Refer to holding torque chart (page B15) to confirm maximum load.

Encoder Option

- E1 No encoder
- E2 Linear encoder (tape scale) 1 micron
- E3 Linear encoder (tape scale) 0.5 micron
- E4 Linear encoder (tape scale) 0.1 micron
- E5 Rotary shaft encoder*

Motor Mount**

- M1 No motor mount
- M3 NEMA 23 & SM23 - In-line mounting
- M4 NEMA 34 In-line mounting
- M11 SM23 - Parallel mounting, "A" location***
- M12 SM23 - Parallel mounting, "B" location***
- M13 SM23 - Parallel mounting, "C" location***
- M14 NEMA 34 - Parallel mounting, "A" location
- M15 NEMA 34 - Parallel mounting, "B" position
- M16 NEMA 34 - Parallel mounting, "C" position
- M17 Neometric 34 - In-line mounting
- M18 Neometric 34 - Parallel mounting, "A" location
- M19 Neometric 34 - Parallel mounting, "B" location
- M20 Neometric 34 - Parallel mounting, "C" location
- M21 Neometric 70 - In-line mounting
- M22 Neometric 70 - Parallel mounting, "A" location
- M23 Neometric 70 - Parallel mounting, "B" location
- M24 Neometric 70 - Parallel mounting, "C" location
- M29 Neometric 92 - In-line mounting
- M61 BE23 - In-line mounting
- M62 BE23 - Parallel mounting, "A" location
- M63 BE23 - Parallel mounting, "B" location
- M64 BE23 - Parallel mounting, "C" location
- M75 SGM02 - In-line mounting

** See page B24 for maximum allowable motor shaft diameter.
*** SM23 motor requires long shaft option.

Motor Coupling

- C1 No coupling (required for parallel mounting)
- C2 0.250" Oldham
- C3 0.250" Bellows (required for precision grade)
- C4 0.375" Oldham
- C5 0.375" Bellows (required for precision grade)
- C6 11.0 mm Oldham
- C7 11.0 mm Bellows (required for precision grade)
- C8 0.500" Oldham
- C9 0.500" Bellows (required for precision grade)
- C10 14.0 mm Oldham
- C11 14.0 mm Bellows (required for precision grade)

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412XR Series - How to Order

Order Example: 412 | T03 | XR | M | S | – | D2 | H3 | L3

Model Series 412

Table Travel (mm)

150	T01
250	T02
350	T03
650	T04
800	T05
1000	T06
1200	T07
1500	T08
1750	T09
2000	T10

Table Style ..... XR

Mounting (Metric) ..... M

Grade

Standard grade ..... S

Drive Screw

Free travel	D1
5 mm lead	D2
10 mm lead	D3
25 mm lead	D5
32 mm lead	D6

Home Sensor*

No home sensor	H1
N.C. current sinking	H2
N.O. current sinking	H3
N.C. current sourcing	H4
N.O. current sourcing	H5

Travel Limit Sensor*

No limit sensor	L1
N.C. current sinking	L2
N.O. current sinking	L3
N.C. current sourcing	L4
N.O. current sourcing	L5

* Includes a 3 meter extension cable with flying lead termination.
A 7,5 meter extension cable can be ordered seperately.

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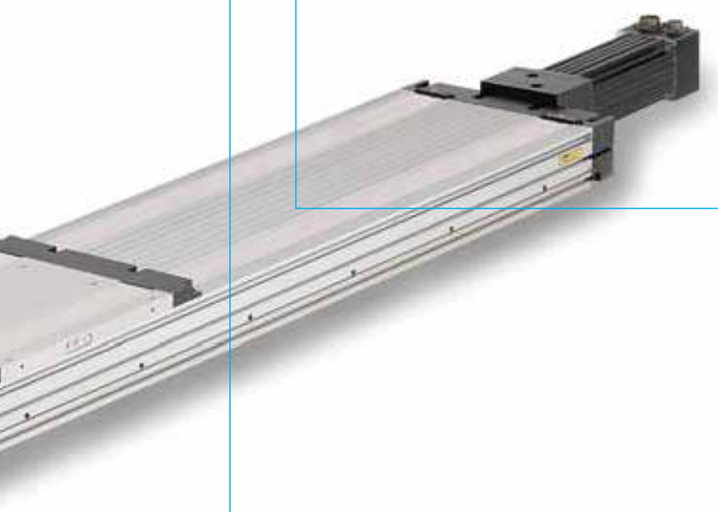
Catalog 8092/USA

Square Rail Linear Tables

High Precision

C15 M4 E3 B1 R1 P1



Pinning Option

- P1 No multi-axis pinning
- P2 X axis transfer pinning to Y axis - 30 arc seconds
- P3 Y axis transfer pinning to X axis - 30 arc seconds*

* P3 option includes a required 15 mm thick adapter.

Cleanroom Preparation

- R1 Class 1000, strip seals
- R2 Class 100, no strip seals

Brake Option

- B1 No brake
- B2 Shaft brake**

** Brake option cannot be used in conjunction with Rotary encoder option. Refer to holding torque chart (page B14) to confirm maximum load.

Encoder Option

- E1 No encoder
- E2 Linear encoder (tape scale) 1 micron
- E3 Linear encoder (tape scale) 0.5 micron
- E4 Linear encoder (tape scale) 0.1 micron
- E5 Linear encoder (tape scale) 5.0 micron
- E6 Rotary encoder **
- E7 Sine encoder

Motor Mount

- M1 No motor mount
- M4 NEMA 34 - In-line mounting
- M14 NEMA 34 - Parallel mounting, "A" position
- M15 NEMA 34 - Parallel mounting, "B" position
- M17 Neometric 34 - In-line mounting
- M18 Neometric 34 - Parallel mounting, "A" position
- M19 Neometric 34 - Parallel mounting, "B" position
- M21 Neometric 70 - In-line mounting
- M22 Neometric 70 - Parallel mounting, "A" position
- M23 Neometric 70 - Parallel mounting, "B" position
- M29 Neometric 92 - In-line mounting
- M30 Neometric 92 - Parallel mounting, "A" position
- M31 Neometric 92 - Parallel mounting, "B" position
- M33 M105, SMN100 - In-line mounting

Motor Coupling

- C1 No coupling
- C4 0.375" bore Oldham
- C5 0.375" bore Bellows
- C6 11.0 mm Oldham
- C7 11.0 mm Bellows
- C8 0.50" Oldham
- C9 0.50" Bellows
- C10 14.0 mm Oldham
- C11 14.0 mm Bellows
- C14 0.750" (19.0mm) Oldham
- C15 0.750" (19.0mm) Bellows

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Parker's XRS Systems

"standard" Cartesian robot modules for cost effective automation

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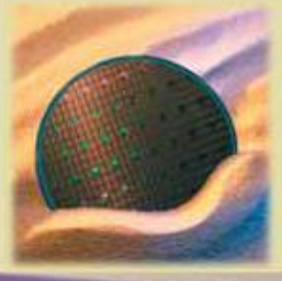
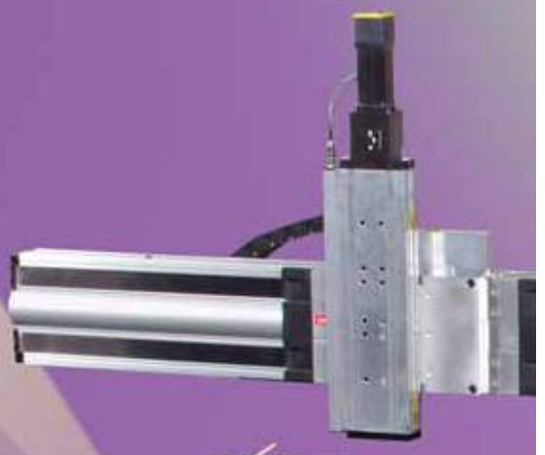


Semiconductor

Electronics

Automated Assembly & Dispensing



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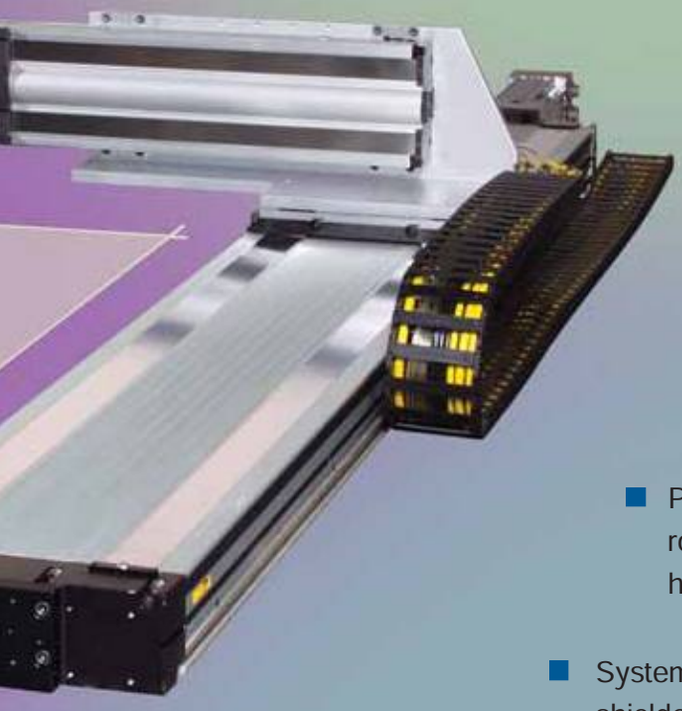
"Standard" XRS Systems are pre-engineered to optimize work-space, simplify selection, shorten delivery and lower costs.

Scalability - With 3 size platforms and 124 standard systems you can find a standard solution for your application.

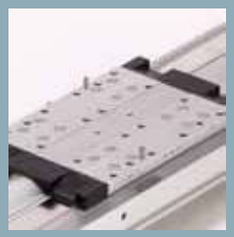
Technology - A unique mix of linear servo motor and ballscrew drive technology provides optimized dynamic performance for today's demanding automation applications.

Reliability - XRS Systems are built from Parker's XR / LXR linear modules, time tested and proven in thou-sands of applications world-wide.



- Innovative strip seal design provides IP30 protection to interior components as well as enhance the overall appearance.
- Inertia matched brushless servo motors provide compatibility with Parker and other industry standard drives and controls.
- Pre-installed air, power and signal lines routed to moving payload for convenient hook-up and long life operation.

- System cable management features "high-flex" shielded cables with quick disconnect convenience.
- Precision dowel holes in carriage surface allows repeatable mounting of tooling to robot. Precision dowel holes in base allows repeatable mounting of entire robot module into machine.



- All axes are aligned and pinned orthogonal so that axes may be removed and re-attached with factory precision.
- Cleanroom preparation and other options are available for easy selection

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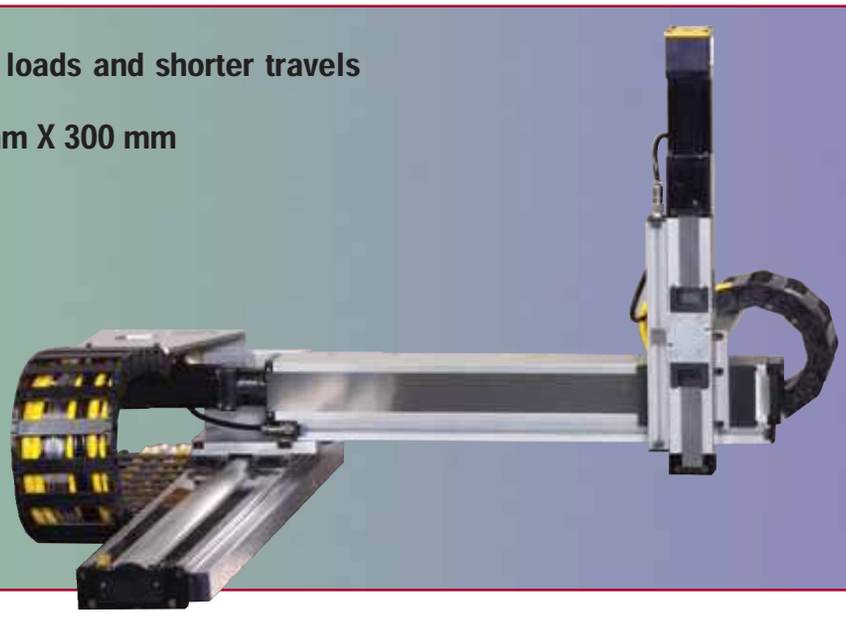
XR Cartesian Systems - Small Platform

- Smaller footprint for light loads and shorter travels
- Max. X-Y work area: 600mm X 300 mm
- Maximum load: 5 kg



Specifications

System No.	Style	System No.	Style	Max. Load (kg)	Work Envelope (mm) X	Y	Z	Velocity (mm/s.) X	Y	Z	Resolution (µm) X	Y	Z	Repeatability** (µm) X	Y	Z
XRS-0001	RH	**XRS-0009**	LH	5	300	300	n/a	600	700	n/a	2.5	2.5	n/a	16	15	n/a
XRS-0002	RH	**XRS-0010**	LH	5	300	300	100	600	700	140	2.5	2.5	0.5	16	15	10
XRS-0003	RH	**XRS-0011**	LH	5	600	300	n/a	600	700	n/a	2.5	2.5	n/a	16	15	n/a
XRS-0004	RH	**XRS-0012**	LH	5	600	300	100	500	700	140	2.5	2.5	0.5	16	15	10
XRS-0005	RH	**XRS-0013**	LH	5	300	300	n/a	1500	700	n/a	1	2.5	n/a	16	15	n/a
XRS-0006	RH	**XRS-0014**	LH	5	300	300	100	1500	700	140	1	2.5	0.5	16	15	10
XRS-0007	RH	**XRS-0015**	LH	5	600	300	n/a	2250	700	n/a	1	2.5	n/a	16	15	n/a
XRS-0008	RH	**XRS-0016**	LH	5	600	300	100	2250	700	140	1	2.5	0.5	16	15	10

** Repeatability established at maximum load - fully extended stroke

Linear Motor driven actuator
Ballscrew driven actuator

Recommended Parker Servo Drive: X axis: AR-02_E Y axis: AR-02_E Z axis: AR-02_E

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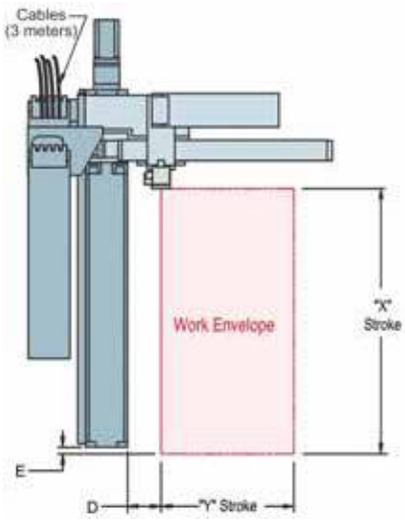
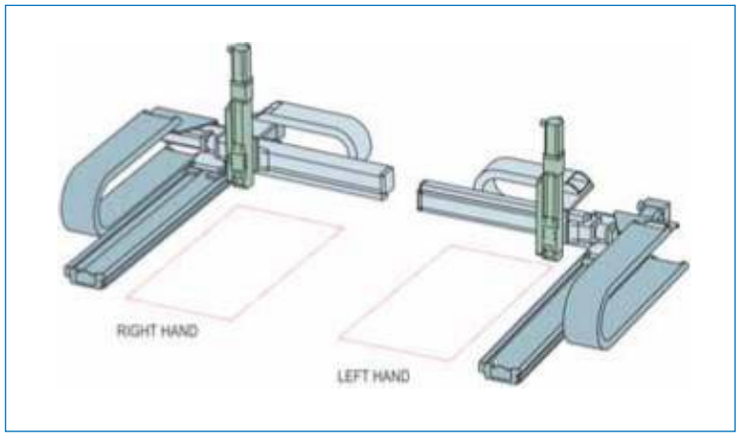
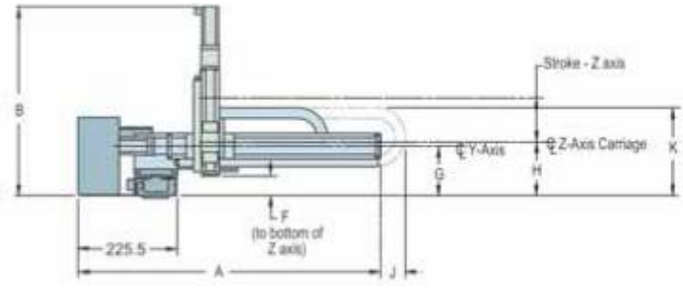
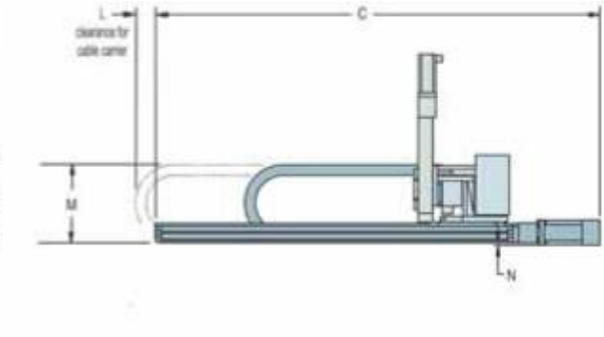
Dimensions - Small Platform

2D & 3D CAD files Download from parkermotion.com









System		System		A	B	C	D	E	F	G	H	J	K	L	M	N	X	Y	Z
XRS-0001	RH	XRS-0009	LH	688.0	n/a	707.1	75.5	-27.7	n/a	112.0	n/a	35	198.7	50	198	6	300	300	n/a
XRS-0002	RH	XRS-0010	LH	688.0	463.4	707.1	75.5	15.3	46.7	112.0	120	35	198.7	50	198	6	300	300	100
XRS-0003	RH	XRS-0011	LH	688.0	n/a	1000.1	75.5	-27.7	n/a	112.0	n/a	35	198.7	50	198	6	600	300	n/a
XRS-0004	RH	XRS-0012	LH	688.0	463.4	1000.1	75.5	15.3	46.7	112.0	120	35	198.7	50	198	6	600	300	100
XRS-0005	RH	XRS-0013	LH	689.5	n/a	596.0	74.0	-71.2	n/a	124.7	n/a	35	211.5	50	211	n/a	300	300	n/a
XRS-0006	RH	XRS-0014	LH	689.5	476.1	596.0	74.0	-28.3	59.5	124.7	133	35	211.5	50	211	n/a	600	300	100
XRS-0007	RH	XRS-0015	LH	689.5	n/a	896.0	74.0	-71.2	n/a	124.7	n/a	35	211.5	50	211	n/a	300	300	n/a
XRS-0008	RH	XRS-0016	LH	689.5	476.1	896.0	74.0	-28.3	59.5	124.7	133	35	211.5	50	211	n/a	600	300	100

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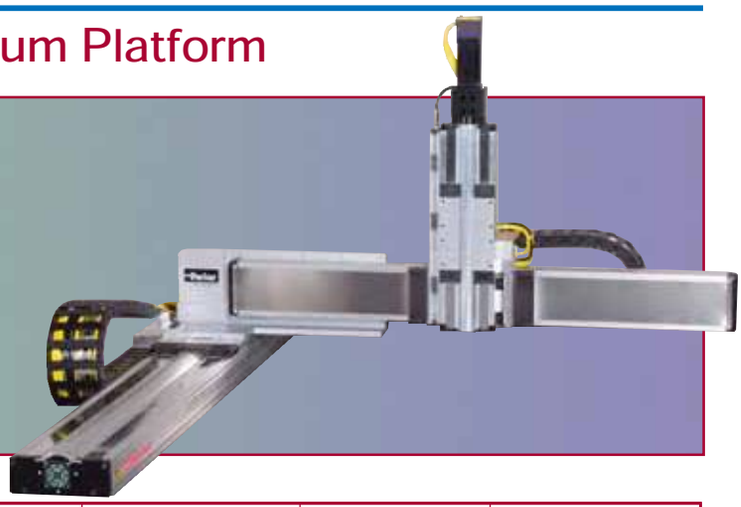
Catalog 8092/USA
Square Rail Linear Tables

High Precision

XR Cartesian Systems - Medium Platform

- For mid range loads and travels
- Max. X-Y work area: 1000mm X 600 mm
- Maximum load: 12 kg



Specifications

System No.	Style	System No.	Style	Max. Load (kg)	Work Envelope (mm) X	Y	Z	Velocity (mm/s.) X	Y	Z	Resolution (µm) X	Y	Z	Repeatability** (µm) X	Y	Z
XRS-0017	RH	**XRS-0053**	LH	12	600	400	n/a	500	600	n/a	2.5	2.5	n/a	45	7	n/a
XRS-0018	RH	**XRS-0054**	LH	5	600	400	100	500	600	140	2.5	2.5	0.5	45	7	10
XRS-0019	RH	**XRS-0055**	LH	12	600	400	150	500	600	600	2.5	2.5	2.5	45	7	6
XRS-0020*	RH	**XRS-0056***	LH	12	600	400	150	500	600	600	2.5	2.5	2.5	45	7	6
XRS-0021	RH	**XRS-0057**	LH	12	600	600	n/a	500	500	n/a	2.5	2.5	n/a	45	7	n/a
XRS-0022	RH	**XRS-0058**	LH	5	600	600	100	500	500	140	2.5	2.5	0.5	45	7	10
XRS-0023	RH	**XRS-0059**	LH	12	600	600	150	500	500	600	2.5	2.5	2.5	45	7	6
XRS-0024*	RH	**XRS-0060***	LH	12	600	600	150	500	500	600	2.5	2.5	2.5	45	7	6
XRS-0025	RH	**XRS-0061**	LH	12	1000	600	n/a	350	500	n/a	2.5	2.5	n/a	45	7	n/a
XRS-0026	RH	**XRS-0062**	LH	5	1000	600	100	350	500	140	2.5	2.5	0.5	45	7	10
XRS-0027	RH	**XRS-0063**	LH	12	1000	600	150	350	500	600	2.5	2.5	2.5	45	7	6
XRS-0028*	RH	**XRS-0064***	LH	12	1000	600	150	350	500	600	2.5	2.5	2.5	45	7	6
XRS-0029	RH	**XRS-0065**	LH	12	600	400	n/a	500	2000	n/a	2.5	1	n/a	45	5	n/a
XRS-0030	RH	**XRS-0066**	LH	5	600	400	100	500	2000	140	2.5	1	0.5	45	5	10
XRS-0031	RH	**XRS-0067**	LH	12	600	400	150	500	2000	600	2.5	1	2.5	45	5	6
XRS-0032*	RH	**XRS-0068***	LH	12	600	400	150	500	2000	600	2.5	1	2.5	45	5	6
XRS-0033	RH	**XRS-0069**	LH	12	600	600	n/a	500	2000	n/a	2.5	1	n/a	45	5	n/a
XRS-0034	RH	**XRS-0070**	LH	5	600	600	100	500	2000	140	2.5	1	0.5	45	5	10
XRS-0035	RH	**XRS-0071**	LH	12	600	600	150	500	2000	600	2.5	1	2.5	45	5	6
XRS-0036*	RH	**XRS-0072***	LH	12	600	600	150	500	2000	600	2.5	1	2.5	45	5	6
XRS-0037	RH	**XRS-0073**	LH	12	1000	600	n/a	350	2000	n/a	2.5	1	n/a	45	5	n/a
XRS-0038	RH	**XRS-0074**	LH	5	1000	600	100	350	2000	140	2.5	1	0.5	45	5	10
XRS-0039	RH	**XRS-0075**	LH	12	1000	600	150	350	2000	600	2.5	1	2.5	45	5	6
XRS-0040*	RH	**XRS-0076***	LH	12	1000	600	150	350	2000	600	2.5	1	2.5	45	5	6
XRS-0041	RH	**XRS-0077**	LH	12	650	400	n/a	2000	2000	n/a	1	1	n/a	45	5	n/a
XRS-0042	RH	**XRS-0078**	LH	5	650	400	100	2000	2000	140	1	1	0.5	45	5	10
XRS-0043	RH	**XRS-0079**	LH	12	650	400	150	2000	2000	600	1	1	2.5	45	5	6
XRS-0044*	RH	**XRS-0080***	LH	12	650	400	150	2000	2000	600	1	1	2.5	45	5	6
XRS-0045	RH	**XRS-0081**	LH	12	650	600	n/a	2000	2000	n/a	1	1	n/a	45	5	n/a
XRS-0046	RH	**XRS-0082**	LH	5	650	600	100	2000	2000	140	1	1	0.5	45	5	10
XRS-0047	RH	**XRS-0083**	LH	12	650	600	150	2000	2000	600	1	1	2.5	45	5	6
XRS-0048*	RH	**XRS-0084***	LH	12	650	600	150	2000	2000	600	1	1	2.5	45	5	6
XRS-0049	RH	**XRS-0085**	LH	12	850	600	n/a	2000	2000	n/a	1	1	n/a	45	5	n/a
XRS-0050	RH	**XRS-0086**	LH	5	850	600	100	2000	2000	140	1	1	0.5	45	5	10
XRS-0051	RH	**XRS-0087**	LH	12	850	600	150	2000	2000	600	1	1	2.5	45	5	6
XRS-0052*	RH	**XRS-0088***	LH	12	850	600	150	2000	2000	600	1	1	2.5	45	5	6

* Models indicated have the Z-axis mounted to the Y-axis "carriage to carriage", hence the Z-axis will extend & retract vertically. The F dimension is established when the Z-axis is at the top of the stroke.
** Repeatability is established at maximum load - fully extended stroke.

Linear Motor driven actuator
Ballscrew driven actuator

Recommended Parker Servo Drive: X axis: AR-04_E Y axis: AR-02_E Z axis: AR-02_E

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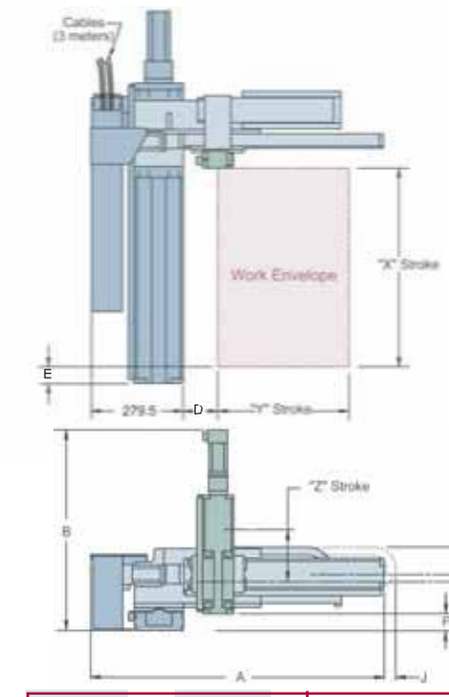
Catalog 8092/USA

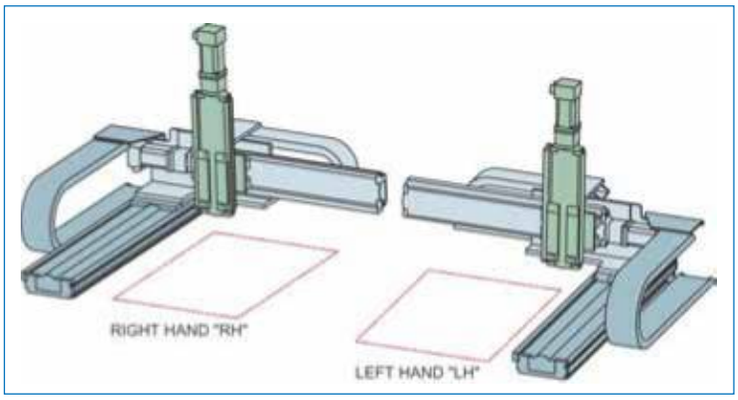
Square Rail Linear Tables

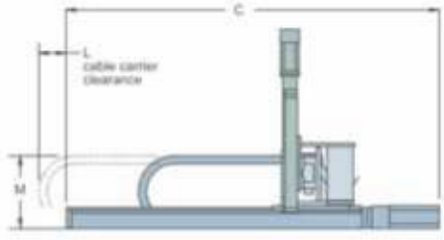
High Precision

Dimensions - Medium Platform

2D & 3D CAD files Download from parkermotion.com







System	System	A	B	C	D	E	F	G	H	J	K	L	M	X	Y	Z
XRS-0017 RH	XRS-0053 LH	892.5	n/a	1127.5	105	-99.0	n/a	170.1	n/a	60	261	80	225	600	400	n/a
XRS-0018 RH	XRS-0054 LH	892.5	530.8	1127.5	105	-56.0	82.6	170.1	156	60	261	80	225	600	400	100
XRS-0019 RH	XRS-0055 LH	892.5	646	1127.5	105	-51.7	64.1	170.1	170	60	261	80	225	600	400	150
XRS-0020*RH	XRS-0056*LH	892.5	646	1127.5	105	-51.7	64.6*	170.1	170	60	261	80	225	600	400	150
XRS-0021 RH	XRS-0057 LH	1092.5	n/a	1127.5	105	-99.0	n/a	170.1	n/a	60	261	80	225	600	600	n/a
XRS-0022 RH	XRS-0058 LH	1092.5	530.8	1127.5	105	-56.0	82.6	170.1	156	60	261	80	225	600	600	100
XRS-0023 RH	XRS-0059 LH	1092.5	646	1127.5	105	-51.7	64.1	170.1	170	60	261	80	225	600	600	150
XRS-0024*RH	XRS-0060*LH	1092.5	646	1127.5	105	-51.7	64.6*	170.1	170	60	261	80	225	600	600	150
XRS-0025 RH	XRS-0061 LH	1092.5	n/a	1527.5	105	-99.0	n/a	170.1	n/a	60	261	80	225	1000	600	n/a
XRS-0026 RH	XRS-0062 LH	1092.5	530.8	1527.5	105	-56.0	82.6	170.1	156	60	261	80	225	1000	600	100
XRS-0027 RH	XRS-0063 LH	1092.5	646	1527.5	105	-51.7	64.1	170.1	170	60	261	80	225	1000	600	150
XRS-0028*RH	XRS-0064*LH	1092.5	646	1527.5	105	-51.7	64.6*	170.1	170	60	261	80	225	1000	600	150
XRS-0029 RH	XRS-0065 LH	934.5	n/a	1127.5	105	-86.3	n/a	170.1	n/a	30	281	80	225	600	400	n/a
XRS-0030 RH	XRS-0066 LH	934.5	530.8	1127.5	105	-43.4	82.6	170.1	156	30	281	80	225	600	400	100
XRS-0031 RH	XRS-0067 LH	934.5	646	1127.5	105	-39.0	64.1	170.1	170	30	281	80	225	600	400	150
XRS-0032*RH	XRS-0068*LH	934.5	646	1127.5	105	-39.0	64.6*	170.1	170	30	281	80	225	600	400	150
XRS-0033 RH	XRS-0069 LH	1134.5	n/a	1127.5	105	-86.3	n/a	170.1	n/a	30	281	80	225	600	600	n/a
XRS-0034 RH	XRS-0070 LH	1134.5	530.8	1127.5	105	-43.4	82.6	170.1	156	30	281	80	225	600	600	100
XRS-0035 RH	XRS-0071 LH	1134.5	646	1127.5	105	-39.0	64.1	170.1	170	30	281	80	225	600	600	150
XRS-0036*RH	XRS-0072*LH	1134.5	646	1127.5	105	-39.0	64.6*	170.1	170	30	281	80	225	600	600	150
XRS-0037 RH	XRS-0073 LH	1134.5	n/a	1527.5	105	-86.3	n/a	170.1	n/a	30	281	80	225	1000	600	n/a
XRS-0038 RH	XRS-0074 LH	1134.5	530.8	1527.5	105	-43.4	82.6	170.1	156	30	281	80	225	1000	600	100
XRS-0039 RH	XRS-0075 LH	1134.5	646	1527.5	105	-39.0	64.1	170.1	170	30	281	80	225	1000	600	150
XRS-0040*RH	XRS-0076*LH	1134.5	646	1527.5	105	-39.0	64.6*	170.1	170	30	281	80	225	1000	600	150
XRS-0041 RH	XRS-0077 LH	934.5	n/a	1117.6	105	-158.3	n/a	170.1	n/a	30	281	35	225	650	400	n/a
XRS-0042 RH	XRS-0078 LH	934.5	530.8	1117.6	105	-115.3	82.6	170.1	156	30	281	35	225	650	400	100
XRS-0043 RH	XRS-0079 LH	934.5	646	1117.6	105	-111.0	64.1	170.1	170	30	281	35	225	650	400	150
XRS-0044*RH	XRS-0080*LH	934.5	646	1117.6	105	-111.0	64.6*	170.1	170	30	281	35	225	650	400	150
XRS-0045 RH	XRS-0081 LH	1134.5	n/a	1117.6	105	-158.3	n/a	170.1	n/a	30	281	35	225	650	600	n/a
XRS-0046 RH	XRS-0082 LH	1134.5	530.8	1117.6	105	-115.3	82.6	170.1	156	30	281	35	225	650	600	100
XRS-0047 RH	XRS-0083 LH	1134.5	646	1117.6	105	-111.0	64.1	170.1	170	30	281	35	225	650	600	150
XRS-0048*RH	XRS-0084*LH	1134.5	646	1117.6	105	-111.0	64.6*	170.1	170	30	281	35	225	650	600	150
XRS-0049 RH	XRS-0085 LH	1134.5	n/a	1317.6	105	-158.3	n/a	170.1	n/a	30	281	35	225	850	600	n/a
XRS-0050 RH	XRS-0086 LH	1134.5	530.8	1317.6	105	-115.3	82.6	170.1	156	30	281	35	225	850	600	100
XRS-0051 RH	XRS-0087 LH	1134.5	646	1317.6	105	-111.0	64.1	170.1	170	30	281	35	225	850	600	150
XRS-0052*RH	XRS-0088*LH	1134.5	646	1317.6	105	-111.0	64.6*	170.1	170	30	281	35	225	850	600	150

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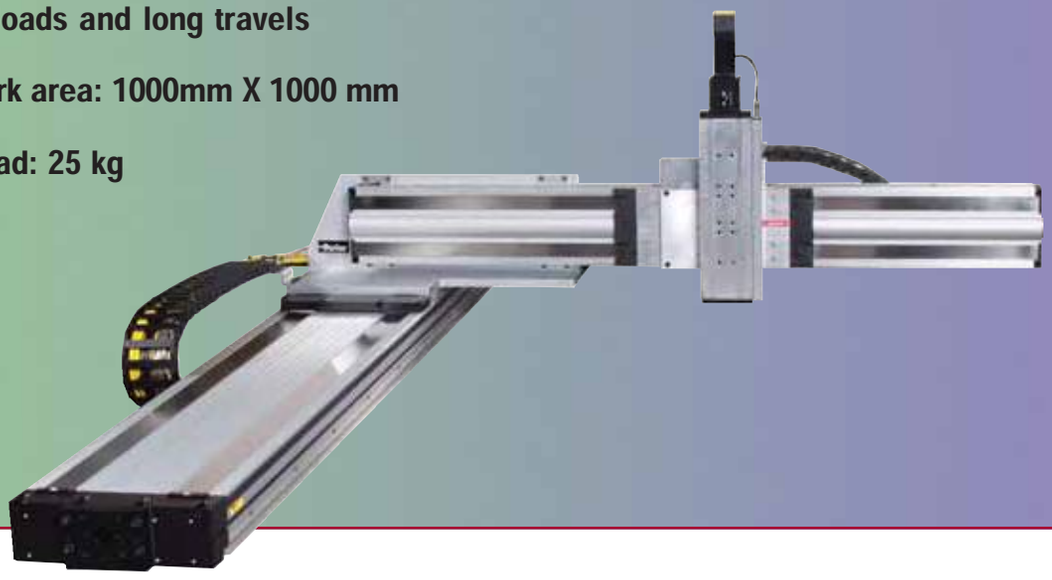
XRS Cartesian Systems - Large Platform

- For heavier loads and long travels
- Max. X-Y work area: 1000mm X 1000 mm
- Maximum load: 25 kg



Specifications

System No.	Style	System No.	Style	Max. Load (kg)	Work Envelope (mm) X	Y	Z	Velocity (mm/s.) X	Y	Z	Resolution (µm) X	Y	Z	Repeatability** (µm) X	Y	Z
XRS-0089	RH	**XRS-0107**	LH	25	650	600	n/a	470	500	n/a	2.5	2.5	n/a	50	7	n/a
XRS-0090	RH	**XRS-0108**	LH	25	650	600	150	470	500	600	2.5	2.5	2.5	50	7	6
XRS-0091*	RH	**XRS-0109***	LH	25	650	600	150	470	500	600	2.5	2.5	2.5	50	7	6
XRS-0092	RH	**XRS-0110**	LH	25	1000	600	n/a	450	500	n/a	2.5	2.5	n/a	50	7	n/a
XRS-0093	RH	**XRS-0111**	LH	25	1000	600	150	450	500	600	2.5	2.5	2.5	50	7	6
XRS-0094*	RH	**XRS-0112***	LH	25	1000	600	150	450	500	600	2.5	2.5	2.5	50	7	6
XRS-0095	RH	**XRS-0113**	LH	25	1000	1000	n/a	450	350	n/a	2.5	2.5	n/a	50	7	n/a
XRS-0096	RH	**XRS-0114**	LH	25	1000	1000	150	450	350	600	2.5	2.5	2.5	50	7	6
XRS-0097*	RH	**XRS-0115***	LH	25	1000	1000	150	450	350	600	2.5	2.5	2.5	50	7	6
XRS-0098	RH	**XRS-0116**	LH	25	650	650	n/a	2000	2000	n/a	1	1	n/a	50	7	n/a
XRS-0099	RH	**XRS-0117**	LH	25	650	650	150	2000	2000	600	1	1	2.5	50	7	6
XRS-0100*	RH	**XRS-0118***	LH	25	650	650	150	2000	2000	600	1	1	2.5	50	7	6
XRS-0101	RH	**XRS-0119**	LH	25	1000	650	n/a	2000	2000	n/a	1	1	n/a	50	7	n/a
XRS-0102	RH	**XRS-0120**	LH	25	1000	650	150	2000	2000	600	1	1	2.5	50	7	6
XRS-0103*	RH	**XRS-0121***	LH	25	1000	650	150	2000	2000	600	1	1	2.5	50	7	6
XRS-0104	RH	**XRS-0122**	LH	25	1000	850	n/a	2000	2000	n/a	1	1	n/a	50	7	n/a
XRS-0105	RH	**XRS-0123**	LH	25	1000	850	150	2000	2000	600	1	1	2.5	50	7	6
XRS-0106*	RH	**XRS-0124***	LH	25	1000	850	150	2000	2000	600	1	1	2.5	50	7	6

* Models indicated have the Z-axis mounted to the Y-axis "carriage to carriage", hence the Z-axis will extend & retract vertically. The F dimension is established when the Z- axis is at the top of the stroke.
**Repeatability is established at maximum load - fully extended stroke.

Linear Motor driven actuator
Ballscrew driven actuator

Recommended Parker Servo Drive: X axis: AR-08_E Y axis: AR-04_E Z axis: AR-02_E

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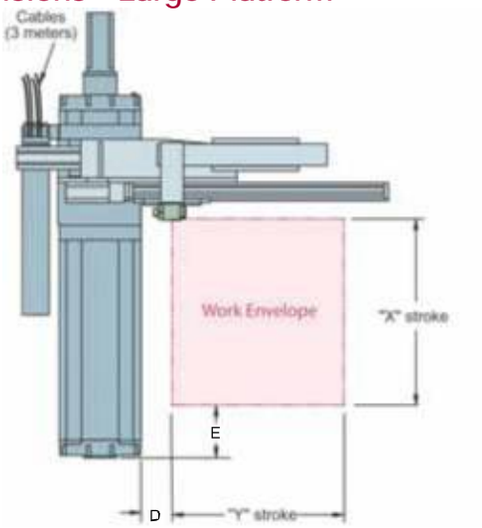
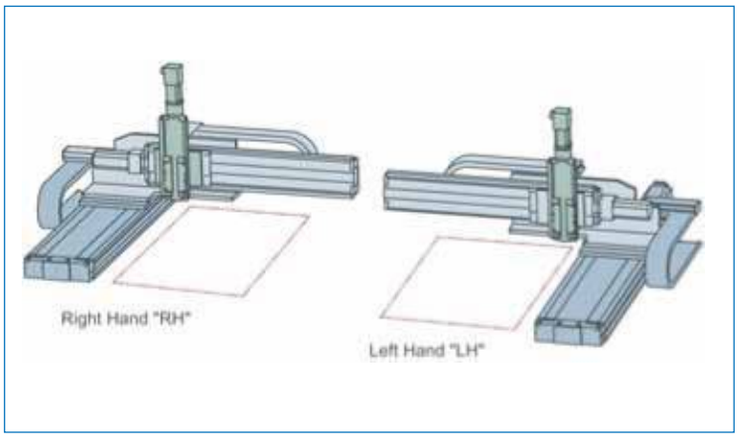
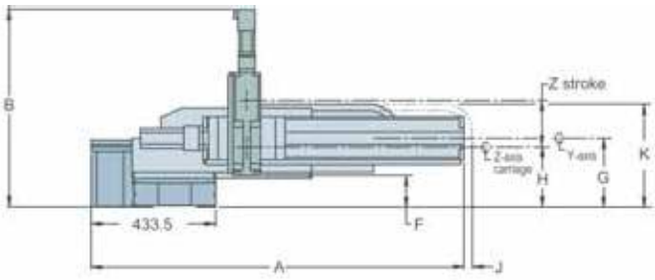
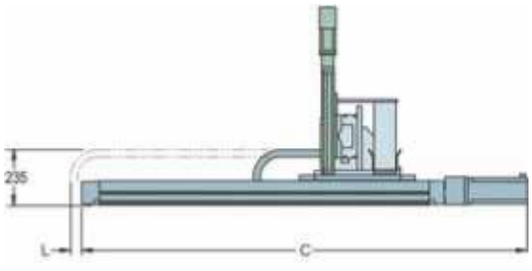
Dimensions - Large Platform









System		System		A	B	C	D	E	F	G	H	J	K	L	X	Y	Z
XRS-0089	RH	XRS-0107	LH	1299.0	n/a	1553.5	108.5	-222.3	n/a	239.9	n/a	80	389.9	0	650	600	n/a
XRS-0090	RH	XRS-0108	LH	1299.0	690.3	1553.5	108.5	-175.0	108.9	239.9	214.9	80	389.9	0	650	600	150
XRS-0091*	RH	XRS-0109*	LH	1299.0	715.3	1553.5	108.5	-175.0	133.9*	239.9	239.9	80	389.9	0	650	600	150
XRS-0092	RH	XRS-0110	LH	1299.0	n/a	1553.5	108.5	-222.3	n/a	239.9	n/a	80	389.9	0	1000	600	n/a
XRS-0093	RH	XRS-0111	LH	1299.0	690.3	1553.5	108.5	-175.0	108.9	239.9	214.9	80	389.9	0	1000	600	150
XRS-0094*	RH	XRS-0112*	LH	1299.0	715.3	1553.5	108.5	-175.0	133.9*	239.9	239.9	80	389.9	0	1000	600	150
XRS-0095	RH	XRS-0113	LH	1699.0	n/a	1903.5	108.5	-222.3	n/a	239.9	n/a	80	389.9	0	1000	1000	n/a
XRS-0096	RH	XRS-0114	LH	1699.0	690.3	1903.5	108.5	-175.0	108.9	239.9	214.9	80	389.9	0	1000	1000	150
XRS-0097*	RH	XRS-0115*	LH	1699.0	715.3	1903.5	108.5	-175.0	133.9*	239.9	239.9	80	389.9	0	1000	1000	150
XRS-0098	RH	XRS-0116	LH	1392.5	n/a	1264.0	100.0	-222.3	n/a	239.9	n/a	80	389.9	0	650	650	n/a
XRS-0099	RH	XRS-0117	LH	1392.5	690.3	1264.0	100.0	-175.0	108.9	239.9	214.9	80	389.9	0	650	650	150
XRS-0100*	RH	XRS-0118*	LH	1392.5	715.3	1264.0	100.0	-175.0	133.9*	239.9	239.9	80	389.9	0	650	650	150
XRS-0101	RH	XRS-0119	LH	1392.5	n/a	1264.0	100.0	-222.3	n/a	239.9	n/a	80	389.9	0	1000	650	n/a
XRS-0102	RH	XRS-0120	LH	1392.5	690.3	1264.0	100.0	-175.0	108.9	239.9	214.9	80	389.9	0	1000	650	150
XRS-0103*	RH	XRS-0121*	LH	1392.5	715.3	1264.0	100.0	-175.0	133.9*	239.9	239.9	80	389.9	0	1000	650	150
XRS-0104	RH	XRS-0122	LH	1592.5	n/a	1614.0	100.0	-222.3	n/a	239.9	n/a	80	389.9	0	1000	850	n/a
XRS-0105	RH	XRS-0123	LH	1592.5	690.3	1614.0	100.0	-175.0	108.9	239.9	214.9	80	389.9	0	1000	850	150
XRS-0106*	RH	XRS-0124*	LH	1592.5	715.3	1614.0	100.0	-175.0	133.9*	239.9	239.9	80	389.9	0	1000	850	150

* Models indicated have the Z-axis mounted to the Y-axis "carriage to carriage", hence the Z-axis will extend & retract vertically. The F dimensio is established when the Z- axis is at the top of the stroke.
**Repeatability is established at maximum load - fully extended stroke.