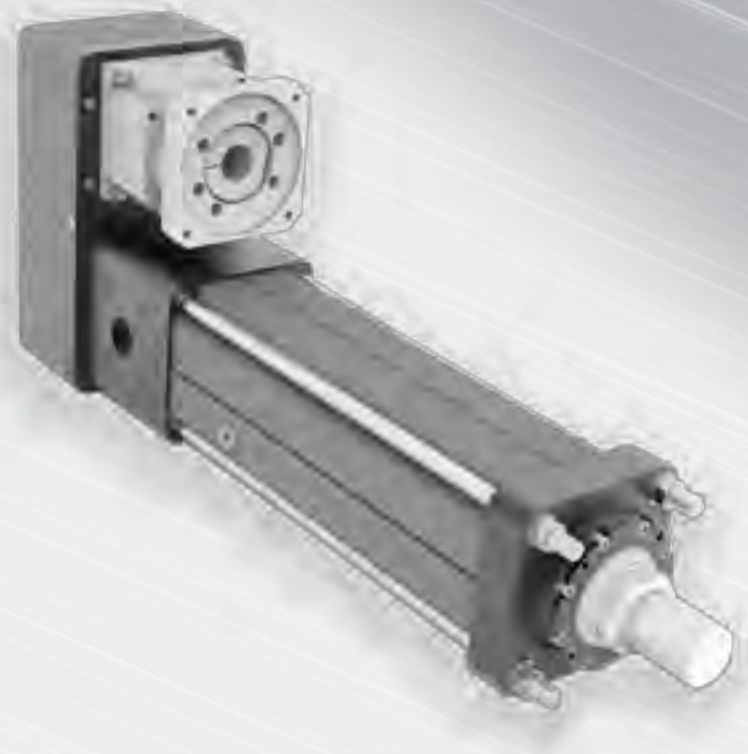
FTX SERIES



NEXT GENERATION HIGH FORCE ACTUATOR

- HYDRAULIC CYLINDER REPLACEMENT
- HIGH SPEED AND LONG LIFE
- LONG STROKE LENGTHS
- RUGGED AND RELIABLE

CURTISS-WRIGHT

EXLAR®

INDUSTRIAL ▪ ACTUATION ▪ SOLUTIONS

FTX Series

High Force Linear Actuators

Hydraulic Cylinder Replacement

Hydraulic cylinders provide long life and high force in a small package size. The FTX Series high force electric actuators were designed specifically to allow migration from traditional hydraulic actuation to electric. Based on planetary roller screw technology, the FTX offers life and force density not attainable with more common ball screw based electric actuators. With up to 15X the life and 2X the force density, the roller screw based FTX is the right choice when migrating from hydraulic to electric actuation.

Rugged and Reliable

Hydraulic cylinders are commonly installed in harsh industrial settings. Therefore all FTX Series models are environmentally sealed to IP65. In addition, its planetary roller screw mechanism withstands significantly higher shock loads than weaker ball screw alternatives. Migrate to electric with confidence knowing the FTX Series is every bit as rugged and reliable as the hydraulics they are designed to replace.

Minimal Maintenance

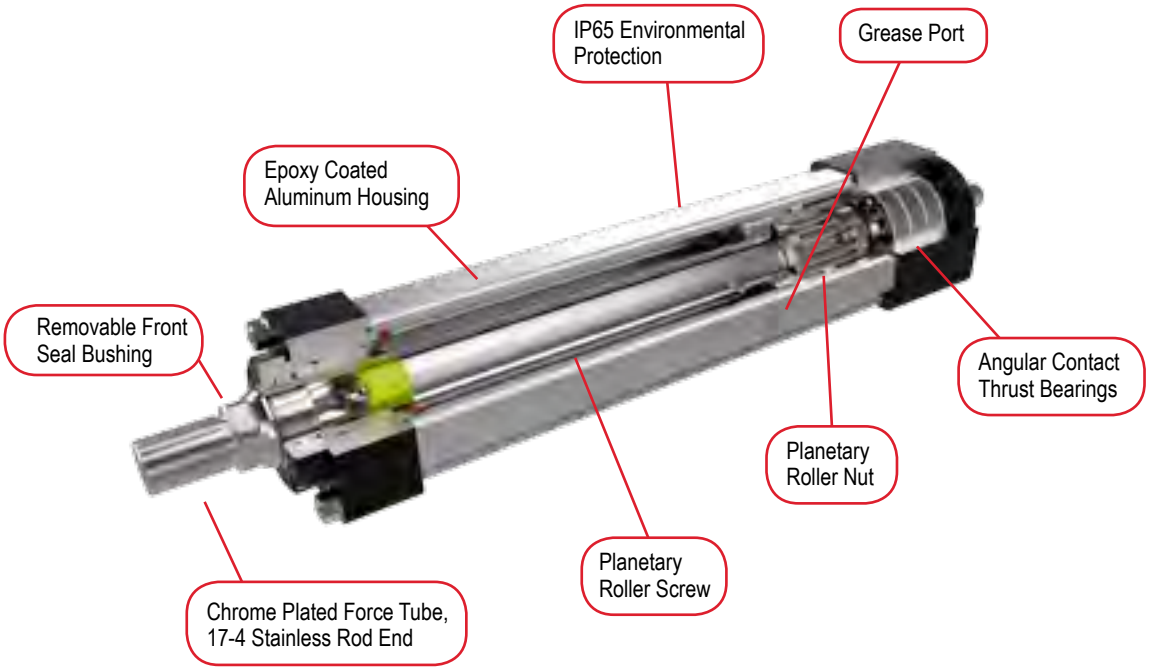
More and more machine builders are looking to eliminate the mess and downtime associated with hydraulic fluid leaks. Electric actuation not only eliminates the problems associated with fluid leaks, it offers significantly higher levels of performance and flexibility than is possible even with servo-hydraulic solutions. FTX Series roller screw actuators allow machine builders to meet the ever-increasing performance demands of their customers while minimizing or eliminating the maintenance issues associated with traditional hydraulic solutions.

Technical Characteristics	
Frame Sizes - mm (in)	125 (5), 215 (8.5)
Screw Leads - mm (in)	5 (.20), 6 (.25), 10 (.39), 12 (.50), 20 (.79), 30 (1.18)
Standard Stroke Lengths mm (in)	150 (6), 300 (12), 600 (24), 900 (36)
Force Range	up to 178 kN (40000 lbf)
Maximum Speed	up to 875 mm/sec (34 in/sec)

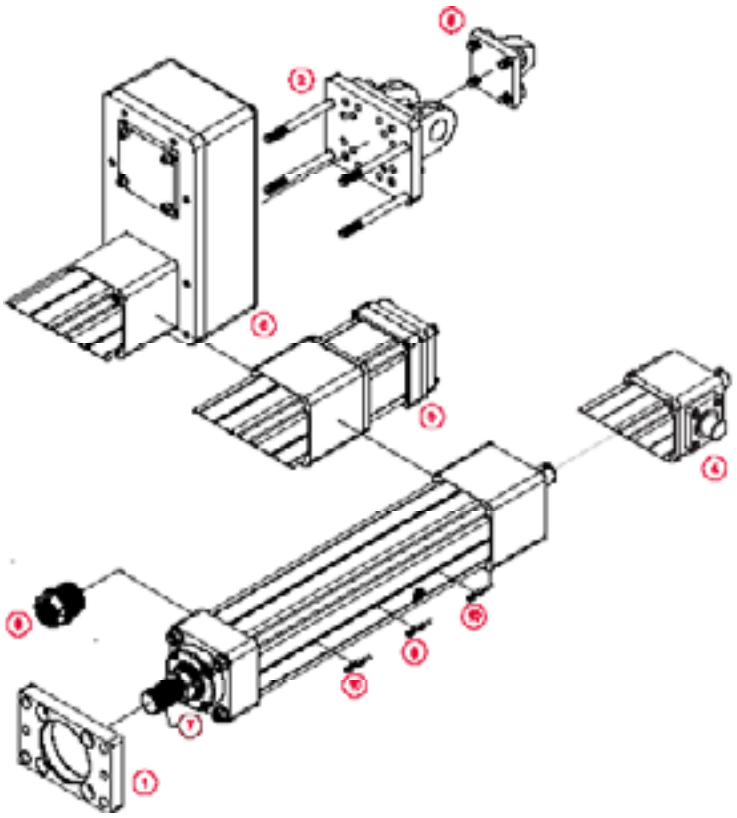
Operating Conditions and Usage		
Accuracy:		
Screw Travel Variation	mm (in)	0.030 (0.0012)
Screw Lead Error	mm/300 mm (in/ft)	0.025 (0.001)
Screw Lead Backlash	mm (in)	0.06 (0.002)
Ambient Conditions:		
Standard Ambient Temperature	°C	-40° to 85°
IP Rating		IP65

* Consult Exlar for extended temperature operation.

Product Features



1 - Front flange
2 - Rear clevis
3 - Rear eye
4 - Rear trunnion
5 - Inline direct drive
6 - Parallel, 1:1 belt reduction
Parallel, 2:1 belt reduction
7 - Male, metric thread
8 - Female, metric thread
9 - External limit switch - N.O., PNP or NPN
10 - External limit switch - N.C., PNP or NPN



Standard Motor Mount Codes for the FTX

FTX125 (Inline or Parallel - 1:1)

Bolt Circle Diameter (mm)	Pilot Diameter (mm)	Shaft Diameter (mm)	Shaft Length (mm)	Key Width (mm)	Motor Mount Code
120	90	32	88	10	G7A
200	114.3	42	113	10	JSD
215	130	32	60	10	ITE
215	180	38	80	10	ITF
215	180	42	82	12	ITG

FTX125 (Parallel - 2:1)

Bolt Circle Diameter (mm)	Pilot Diameter (mm)	Shaft Diameter (mm)	Shaft Length (mm)	Key Width (mm)	Motor Mount Code
85	70	22	56	6	GIA
165	130	32	58	10	IRC
200	114.3	35	80	10	JSA

FTX215 (Inline or Parallel - 1:1)

Bolt Circle Diameter (mm)	Pilot Diameter (mm)	Shaft Diameter (mm)	Shaft Length (mm)	Key Width (mm)	Motor Mount Code
215	160	55	112	16	GTA
265	230	42	110	12	IVC
265	230	60	140	18	JVC
300	250	48	112	14	IWA
300	250	60	140	18	JWA

FTX215 (Parallel - 2:1)

Bolt Circle Diameter (mm)	Pilot Diameter (mm)	Shaft Diameter (mm)	Shaft Length (mm)	Key Width (mm)	Motor Mount Code
165	130	40	112	12	GRA
215	180	38	80	10	ITF
215	180	42	85	12	ITG
265	230	38	110	10	IVB
265	230	42	110	12	IVC

DEFINITIONS:

Maximum Force: Calculated Cubic Mean Load for the application should not exceed this value. (Values are derived from the design capacity of the FT Series actuator and should not be exceeded or relied upon for continuous operation.)

Life at Maximum Force: Estimated life that can be expected from the actuator when running at Maximum Force for intermittent periods of time. (Theoretical calculation based on the Dynamic Load Rating of the actuator and using the Maximum Force rating as the Cubic Mean Load.)

C_a (Dynamic Load Rating): A design constant used when calculating the estimated travel life of the roller screw.

Maximum Input Torque: The torque required at the screw to produce the Maximum Force rating. Exceeding this value can cause permanent damage to the actuator.

Maximum Rated RPM: The maximum allowable rotational screw speed determined by either screw length limitations or the rotational speed limit of the roller screw nut.

Maximum Linear Speed: The linear speed achieved by the actuator when Maximum Rated RPM is applied to the roller screw input shaft.

Mechanical Specifications

FTX125

		05	10	20
Screw Lead	mm	5	10	20
	in	0.197	0.394	0.787
Maximum Force*	kN	44.5	44.5	TBD
	lbf	10000	10000	TBD
Life at Maximum Force	km	249.2	486.3	TBD
	in x 10^6	9.81	19.14	TBD
C_a (Dynamic Load Rating)	kN	163.7	162.4	153.5
	lbf	36,800	36,500	34,500
Maximum Input Torque	Nm	46.5	82.3	TBD
	lbf-in	412	728	TBD
Max Rated RPM @ Input Shaft	RPM	3,500	3,500	3,500
Maximum Linear Speed @ Maximum Rated RPM	mm/sec	292	583	1166
	in/sec	11.5	23	46
Friction Torque	Nm	2.23	2.23	2.23
	lbf-in	20	20	20
Efficiency:				
System	%	70	80	87

Intermediate and custom stroke lengths are also available. Belt and pulley inertia varies with ratio and motor selection. Please contact your local sales representative.

* Maximum allowable actuator-generated force that can be applied routinely. Exceeding this force may result in permanent damage to the actuator. For high force, short stroke applications, consult factory.

Weights kg (lbs)

Base Actuator Weight (Zero Stroke)	kg	21
	lb	47
Actuator Weight Adder (Per 25 mm of stroke)	kg	0.84
	lb	1.85
Adder for Inline (excluding motor)	kg	6.8
	lb	15.0
Adder for Parallel Drive (excluding motor)	kg	25.6
	lb	56.5
Adder for Front Flange	kg	3.6
	lb	7.9
Adder for Rear Clevis	kg	6.5
	lb	14.3
Adder for Rear Eye	kg	6.3
	lb	13.8
Adder for Rear Trunnion	kg	3.1
	lb	6.8

Base Unit Inertia		**Zero Stroke**	**Add per 25 mm**
5 mm Lead		2.55×10^{-3} (2.26×10^{-2})	4.62×10^{-5} (4.09×10^{-4})
10 mm Lead		2.56×10^{-3} (2.27×10^{-2})	4.65×10^{-5} (4.12×10^{-4})
20 mm Lead		2.61×10^{-3} (2.31×10^{-2})	4.81×10^{-5} (4.26×10^{-4})
Inline Drive Inertia	**<32 mm Motor Shaft Diameter**	**>32 mm Motor Shaft Diameter**	**Add per 25 mm**
5 mm Lead	2.81×10^{-3} (2.49×10^{-2})	3.35×10^{-3} (2.97×10^{-2})	4.62×10^{-5} (4.09×10^{-4})
10 mm Lead	2.82×10^{-3} (2.50×10^{-2})	3.36×10^{-3} (2.98×10^{-2})	4.65×10^{-5} (4.12×10^{-4})
20 mm Lead	2.87×10^{-3} (2.54×10^{-2})	3.41×10^{-3} (3.02×10^{-2})	4.81×10^{-5} (4.26×10^{-4})
Parallel Drive Inertia		**1:1 Reduction**	**2:1 Reduction**
5 mm Lead (zero stroke)		9.43×10^{-3} (8.34×10^{-2})	4.66×10^{-3} (4.12×10^{-2})
Add per 25 mm stroke		4.62×10^{-5} (4.09×10^{-4})	1.15×10^{-5} (1.02×10^{-4})
10 mm Lead (zero stroke)		9.44×10^{-3} (8.35×10^{-2})	4.66×10^{-3} (4.13×10^{-2})
Add per 25 mm stroke		4.65×10^{-5} (4.12×10^{-4})	1.16×10^{-5} (1.03×10^{-4})
20 mm Lead (zero stroke)		9.49×10^{-3} (8.39×10^{-2})	4.81×10^{-5} (4.26×10^{-4})
Add per 25 mm stroke		4.81×10^{-5} (4.26×10^{-4})	1.20×10^{-5} (1.06×10^{-4})

FTX215

		06	12	30
Screw Lead	mm	6	12	30
	in	0.24	0.5	1.18
Maximum Force*	kN	178	178	178
	lbf	40000	40000	40000
Life at Maximum Force	km	79	111	414
	in x 10^6	3	4	16
C_a (Dynamic Load Rating)	kN	420	374	427
	lbf	89,500	86,400	84,700
Maximum Input Torque	Nm	243	425	976
	lbf-in	2,148	3,760	8,642
Max Rated RPM @ Input Shaft	RPM	1,750	1,750	1,750
Maximum Linear Speed @ Maximum Rated RPM	mm/sec	175	351	875
	in/sec	7	14	34
Friction Torque	Nm	5.7	5.7	5.7
	lbf-in	50	50	50
Efficiency:				
System	%	70	80	87

Intermediate and custom stroke lengths are also available. Belt and pulley inertia varies with ratio and motor selection. Please contact your local sales representative.

* Maximum allowable actuator-generated force that can be applied routinely. Exceeding this force may result in permanent damage to the actuator. For high force, short stroke applications, consult factory.

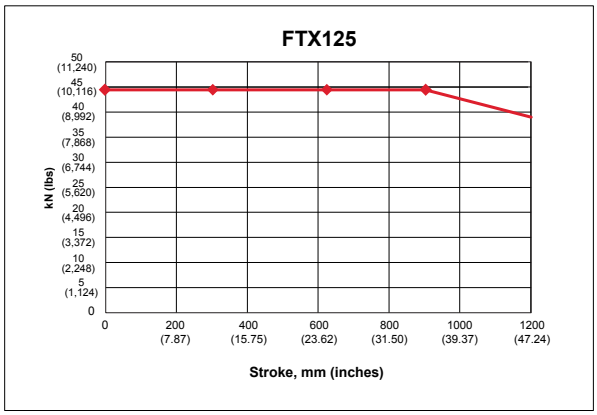
Weights kg (lbs)

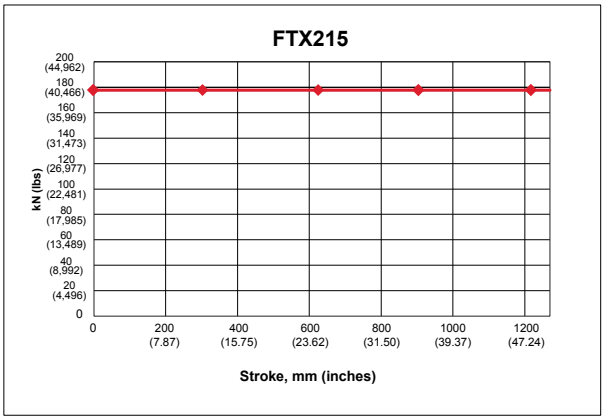
Base Actuator Weight (Zero Stroke)	kg	103
	lb	227
Actuator Weight Adder (Per 25 mm of stroke)	kg	2.70
	lb	5.96
Adder for Inline (excluding motor)	kg	38.6
	lb	85.1
Adder for Parallel Drive (excluding motor)	kg	62.3
	lb	137.3
Adder for Front Flange	kg	26.7
	lb	58.8
Adder for Rear Clevis	kg	32.5
	lb	71.6
Adder for Rear Eye	kg	32.5
	lb	71.6
Adder for Rear Trunnion	kg	9.6
	lb	21.2

Base Unit Inertia		**Zero Stroke**	**Add per 25 mm**
6 mm Lead		4.25×10^{-2} (3.76×10^{-1})	8.00×10^{-4} (7.08×10^{-3})
12 mm Lead		4.26×10^{-2} (3.77×10^{-1})	8.02×10^{-4} (7.10×10^{-3})
30 mm Lead		4.31×10^{-2} (3.82×10^{-1})	8.15×10^{-4} (7.21×10^{-3})
Inline Drive Inertia	**<55 mm Motor Shaft Diameter**	**>55 mm Motor Shaft Diameter**	**Add per 25 mm**
6 mm Lead	4.43×10^{-2} (3.92×10^{-1})	6.15×10^{-2} (5.44×10^{-1})	8.00×10^{-4} (7.08×10^{-3})
12 mm Lead	4.44×10^{-2} (3.93×10^{-1})	6.16×10^{-2} (5.45×10^{-1})	8.02×10^{-4} (7.10×10^{-3})
30 mm Lead	4.49×10^{-2} (3.98×10^{-1})	6.21×10^{-2} (5.50×10^{-1})	8.15×10^{-4} (7.21×10^{-3})
Parallel Drive Inertia		**1:1 Reduction**	**2:1 Reduction**
6 mm Lead (zero stroke)		9.42×10^{-2} (8.34×10^{-1})	3.50×10^{-2} (3.10×10^{-1})
Add per 25 mm stroke		8.00×10^{-4} (7.08×10^{-3})	2.00×10^{-4} (1.77×10^{-3})
12 mm Lead (zero stroke)		9.43×10^{-2} (8.34×10^{-1})	3.50×10^{-2} (3.10×10^{-1})
Add per 25 mm stroke		8.02×10^{-4} (7.10×10^{-3})	2.01×10^{-4} (1.78×10^{-3})
30 mm Lead (zero stroke)		9.48×10^{-2} (8.39×10^{-1})	3.52×10^{-2} (3.11×10^{-1})
Add per 25 mm stroke		8.15×10^{-4} (7.21×10^{-3})	2.04×10^{-4} (1.80×10^{-3})

Data Curves

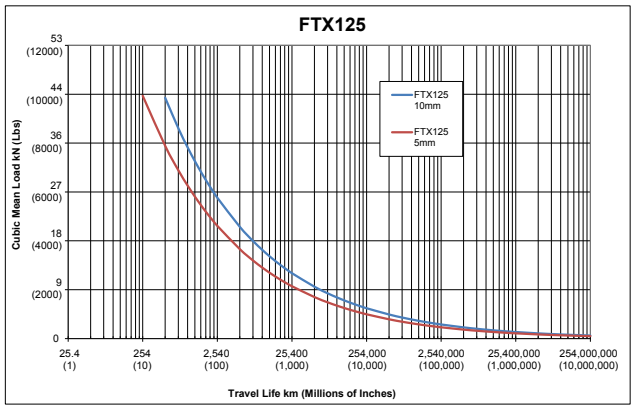
Maximum Force Rating

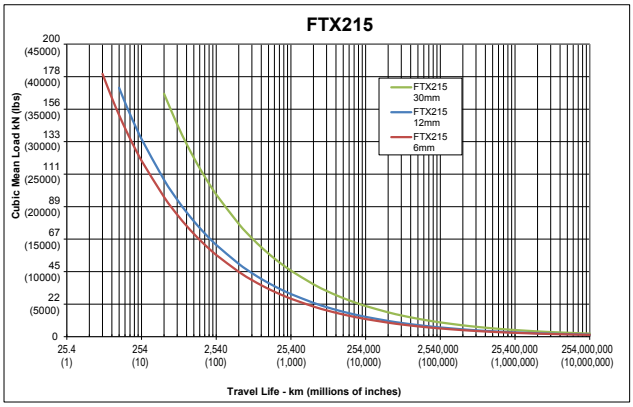




* With longer stroke length actuators, the rated speed of the actuator is determined by the critical speed

Estimated Service Life





Service Life Estimate Assumptions:

- Sufficient quality and quantity of lubrication is maintained through-out service life
- Bearing and screw temperature between 20° C and 40° C
- No mechanical hard stops (external or internal) or impact loads
- No external side loads
- Does not apply to short stroke, high frequency applications such as fatigue testing or short stroke, high force applications such as pressing.

The L_{10} expected life of a roller screw linear actuator is expressed as the linear travel distance that 90% of properly maintained roller screws manufactured are expected to meet or exceed. This is not a guarantee and these charts should be used for estimation purposes only.

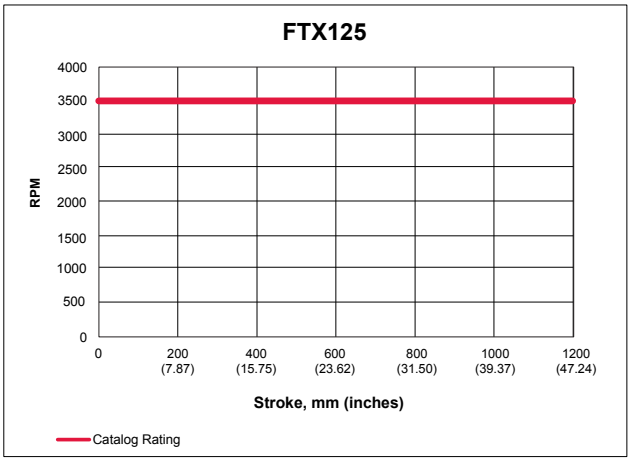
The underlying formula that defines this value is:
Travel life in millions of inches, where:

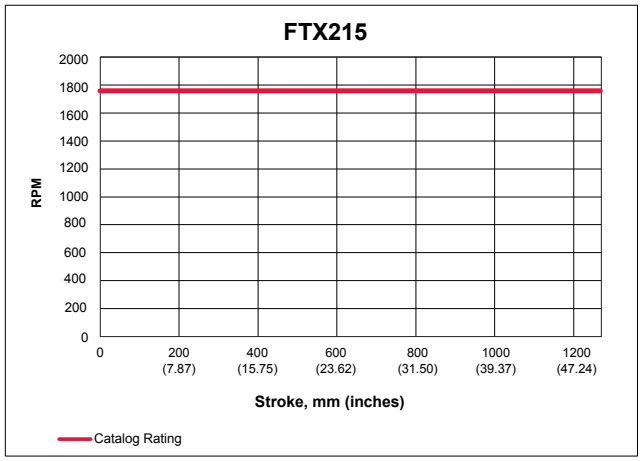
C_a = Dynamic load rating (lbf)
F_{cml} = Cubic mean applied load (lbf)
ℓ = Roller screw lead (inches)

$$L_{10} = \left(\frac{C_a}{F_{cml}} \right)^3 \times \ell$$

.

Critical Speed vs Stroke Length:



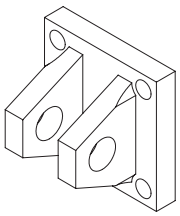


* With longer stroke length actuators, the rated speed of the actuator is determined by the critical speed

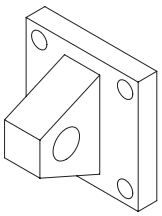
FTX Series Accessories

Limit Switches (if required in addition to L1, L2, L3 option in actuator model)			
Option	**Quantity**	**Part Number**	**Description**
L1	1	43403	Normally Open PNP Limit Switch (10-30 VDC, 1m. 3 wire embedded cable)
L2	2	43404	Normally Closed PNP Limit Switch (10-30 VDC, 1m. 3 wire embedded cable)
L3	1 2	43403 43404	Normally Open PNP Limit Switch (10-30 VDC, 1m. 3 wire embedded cable) Normally Closed PNP Limit Switch (10-30 VDC, 1m. 3 wire embedded cable)
L4	1	67634	Normally Open NPN Limit Switch (10-30 VDC, 1m. 3 wire embedded cable)
L5	2	67635	Normally Closed NPN Limit Switch (10-30 VDC, 1m. 3 wire embedded cable)
L6	1 2	67634 67635	Normally Open NPN Limit Switch (10-30 VDC, 1m. 3 wire embedded cable) Normally Closed NPN Limit Switch (10-30 VDC, 1m. 3 wire embedded cable)

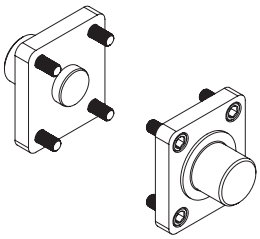
Rear Clevis Mount



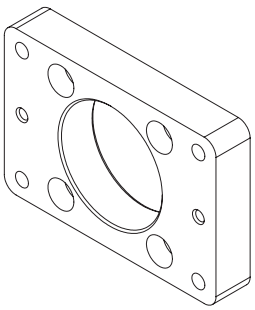
Rear Eye Mount



Rear Trunnion Mount

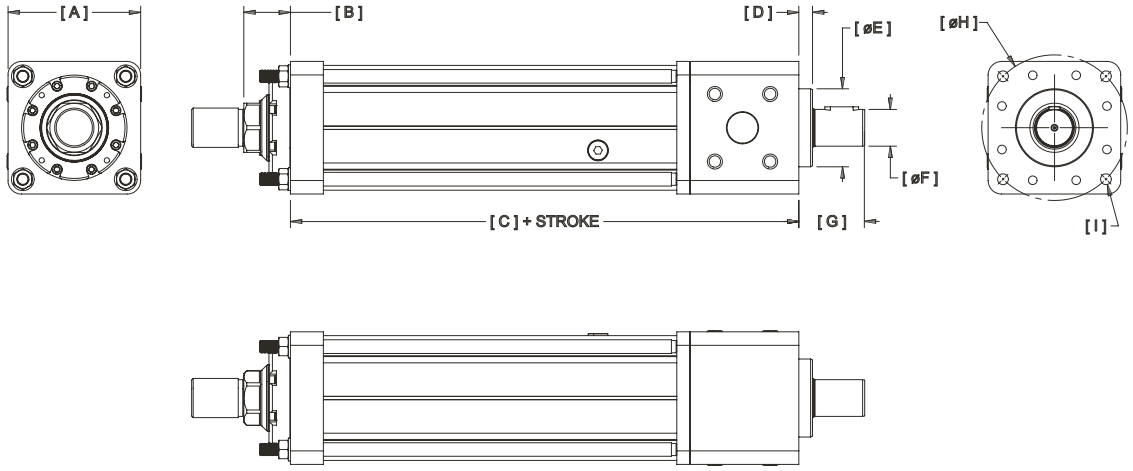


Front Flange Mount



Dimensions

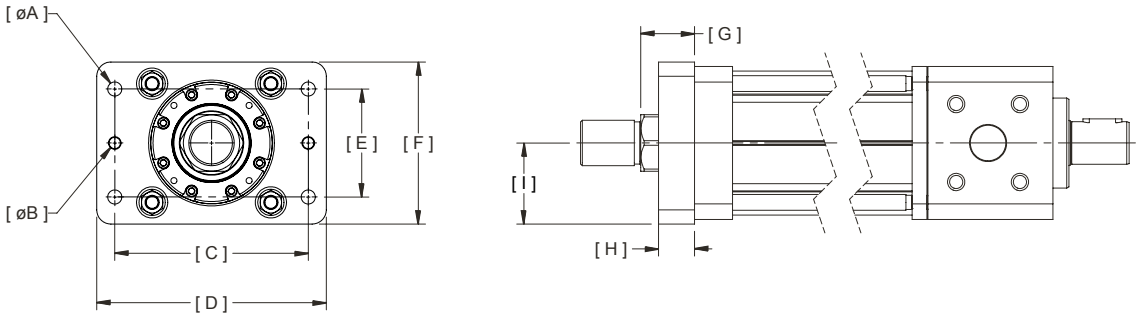
Base Actuator (FTX125, FTX215)



		FTX125	FTX215
A	mm	125.0	215.9
	in	4.92	8.50
B	mm	49.1	76.0
	in	1.98	2.99
C	mm	358.6 ± 1.5	523.0 ± 1.5
	in	14.12 ± 0.06	20.59 ± 0.06
D	mm	18.0	22.4
	in	0.72	0.88
E	mm	Ø80.0	Ø127.0
	in	Ø3.15	Ø5.00

		FTX125	FTX215
F	mm	Ø28.0 +0.00 / -0.0013	Ø60.0 +0.00 / -0.0013
	in	Ø1.102 +0.00 / -0.0005	Ø2.362 +0.00 / -0.0005
G	mm	80.0	107.3
	in	3.15	4.23
H	mm	Ø137.0	Ø237.0
	in	Ø5.39 BC	Ø9.33 BC
I		4X M12x1.75 - 6H ↓ 33 mm	4X M20x2.5 - 6H ↓ 20 mm

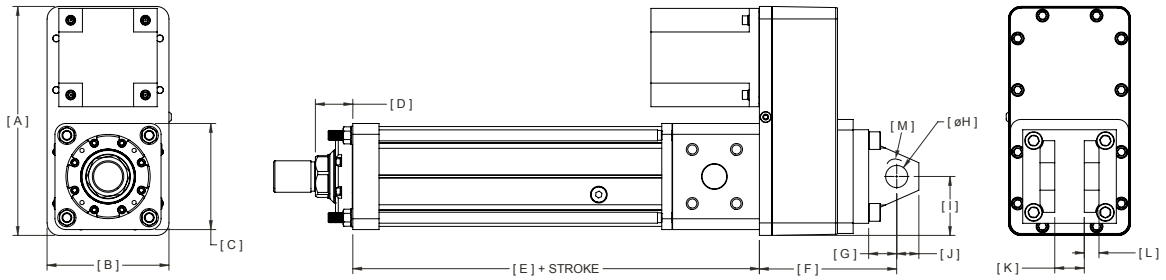
Front Flange Mount (ME5 Option)



		FTX125	FTX215
A	mm	Ø18.0	Ø22.0
	in	Ø0.71	Ø0.87
B	mm	Ø12.00 +0.03 / -0.00	Ø16.00 +0.03 / -0.00
	in	Ø0.472 +0.001 / -0.000	Ø0.630 +0.001 / -0.000
C	mm	162.0	300.0
	in	6.38	11.81
D	mm	200.0	360.0
	in	7.87	14.17
E	mm	97.0	190.0
	in	3.82	7.48
F	mm	130.0	245.0
	in	5.12	9.65
G	mm	49.1	76.0
	in	1.93	2.99
H	mm	30.0	58.0
	in	1.18	2.28
I	mm	65.0	112.5
	in	2.56	4.82

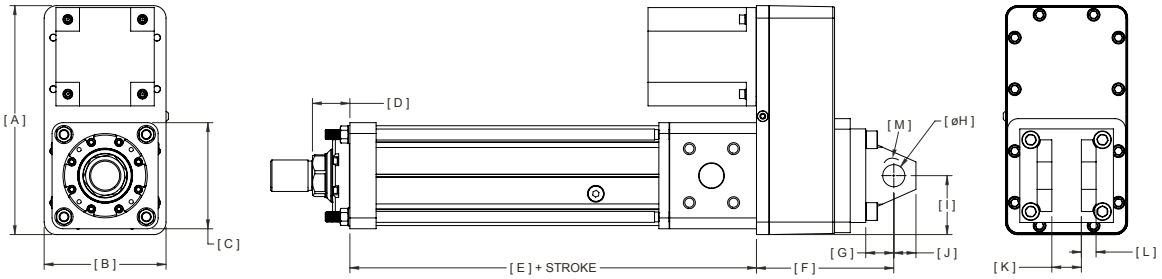
Pre-sale drawings and models are representative and are subject to change. Certified drawings and models are available for a fee. Consult your local Exlar representative for details.

Rear Clevis Mount (MP1 Option)



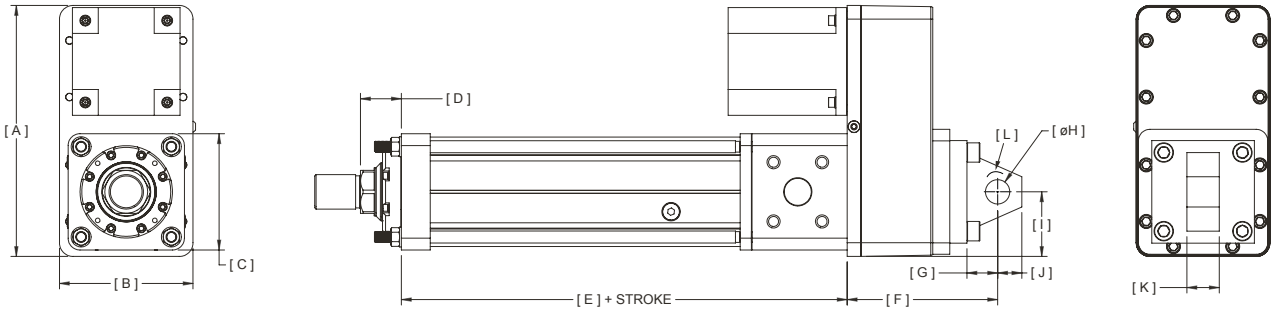
		FTX125 190 mm wide housing	FTX125 217 mm wide housing
A	mm	369.5	395.0
	in	14.55	15.55
B	mm	190.0	216.7
	in	7.48	8.53
C	mm	125.0	125.0
	in	4.92	4.92
D	mm	49.1	49.1
	in	1.93	1.93
E	mm	358.6 ± 1.5	358.6 ± 1.5
	in	14.12 ± 1.06	14.12 ± 0.06
F	mm	200.7 ± 1.0	201.6 ± 1.0
	in	7.90 ± 0.04	7.93 ± 0.04
G	mm	32.0	32.0
	in	1.26	1.26
H	mm	Ø20.0 H9	Ø20.0 H9
	in	Ø0.79 H9	Ø0.79 H9
I	mm	77.9 ± 1.8	95.3 ± 1.8
	in	3.07 ± 0.07	3.75 ± 0.07
J	mm	N/A	N/A
	in	N/A	N/A
K	mm	30.0	30.0
	in	1.18	1.18
L	mm	15.0	15.0
	in	0.59	0.59
M	mm	29.0	29.0
	in	1.14	1.14

Rear Clevis Mount (MP1 Option)



		FTX215 248 mm wide housing	FTX215 292 mm wide housing
A	mm	466.0	533.4
	in	18.35	21.00
B	mm	248.0	292.1
	in	9.76	11.50
C	mm	215.9	215.9
	in	8.50	8.50
D	mm	76.0	76.0
	in	2.99	2.99
E	mm	523.0 ± 1.5	523.0 ± 1.5
	in	20.59 ±0.06	20.59 ±0.06
F	mm	279.4 ± 1.0	288.7 ± 1.0
	in	11.00 ± 0.04	11.37 ± 0.04
G	mm	57.0	57.0
	in	2.24	2.24
H	mm	Ø45.0 H9	Ø45.0 H9
	in	Ø1.77 H9	Ø1.77 H9
I	mm	120.0 ± 1.18	133.4 ± 1.8
	in	4.72 ± 0.07	5.25 ± 0.07
J	mm	45.0	45.0
	in	1.77	1.77
K	mm	60.13 +0.76 / -0.00	60.13 +0.76 / -0.00
	in	2.367 +0.030 / -0.000	2.367 +0.030 / -0.000
L	mm	30.0	30.0
	in	1.18	1.18
M	mm	53.0	53.0
	in	2.09	2.09

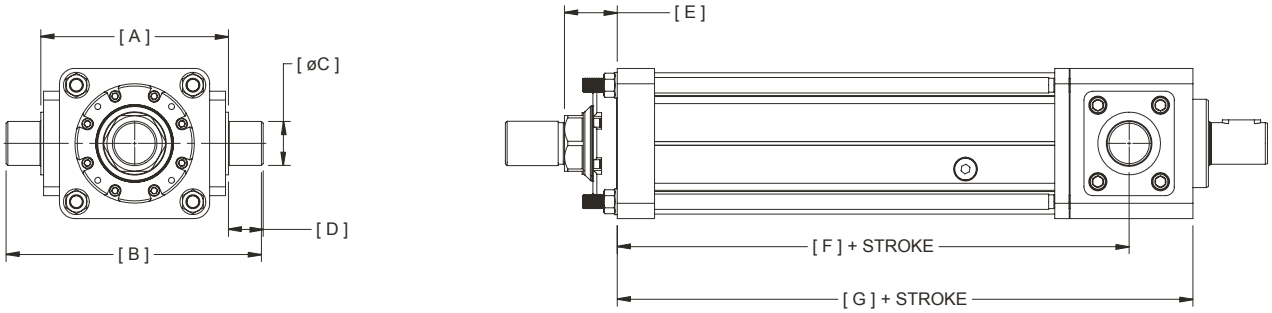
Rear Eye Mount (MP3 Option)



		FTX125		FTX215	
		190 mm wide housing	217 mm wide housing	248 mm wide housing	292 mm wide housing
A	mm	369.5	395.0	466.0	533.4
	in	14.55	15.55	18.35	21.00
B	mm	190.0	216.7	248.0	292.1
	in	7.48	8.53	9.75	11.50
C	mm	125.0	125.0	215.9	215.9
	in	4.92	4.92	8.50	8.50
D	mm	49.1	49.1	76.0	76.0
	in	1.93	1.93	2.99	2.99
E	mm	358.6 ± 1.5	358.6 ± 1.5	523.0 ± 1.5	523.0 ± 1.5
	in	14.12 ± 0.06	14.12 ± 0.06	20.59 ± 0.06	20.59 ± 0.06
F	mm	200.7 ± 1.0	201.6 ± 1.0	279.4 ± 1.0	288.7 ± 1.0
	in	7.90 ± 0.04	7.93 ± 0.04	11.00 ± 0.04	11.37 ± 0.04
G	mm	32.0	32.0	57.0	57.0
	in	1.26	1.26	2.24	2.24
H	mm	Ø20.0 H9	Ø20.0 H9	Ø45.0 H9	Ø45.0 H9
	in	Ø0.79 H9	Ø0.79 H9	Ø1.77 H9	Ø1.77 H9
I	mm	77.9 ± 1.18	95.3 ± 1.18	120.0 ± 1.8	133.4 ± 1.8
	in	3.07 ± 0.07	3.75 ± 0.07	4.72 ± 0.07	5.25 ± 0.07
J	mm	N/A	N/A	45.0	45.0
	in	N/A	N/A	1.77	1.77
K	mm	60.00 +0.00 / -0.76	60.00 +0.00 / -0.76	60.00 +0.00 / -0.76	60.00 +0.00 / -0.76
	in	2.362 +0.000 / -0.030	2.362 +0.000 / -0.030	2.362 +0.000 / -0.030	2.362 +0.000 / -0.030
L	mm	29.0	29.0	53.0	53.0
	in	1.14	1.14	2.09	2.09

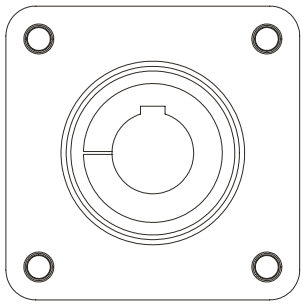
Pre-sale drawings and models are representative and are subject to change. Certified drawings and models are available for a fee. Consult your local Exlar representative for details.

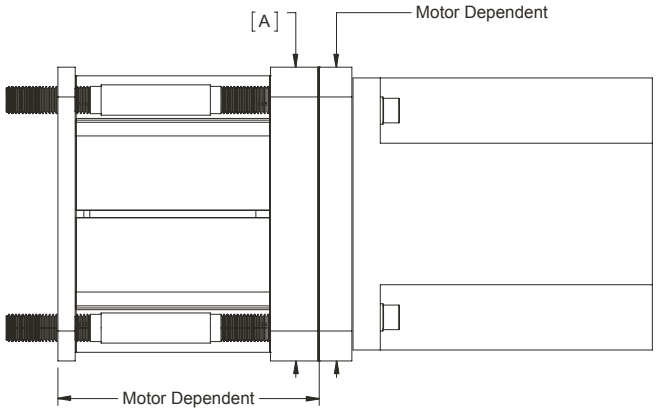
Rear Trunnion Mount (MT2 Option)



		FTX125	FTX215
A	mm	167.0 ± 0.64	269.6 ± 0.64
	in	6.57 ± 0.025	10.62 ± 0.025
B	mm	217.0 ± .038	367.0 ± 0.38
	in	8.54 ± 0.015	14.45 ± 0.015
C	mm	Ø32.00 +0.00 / -0.05	Ø63.00 +0.00 / -0.05
	in	Ø1.26 +0.000 / -0.002	Ø2.480 +0.000 / -0.002
D	mm	25.00 ± 0.13	50.00 ± 0.13
	in	0.984 ± 0.005	1.970 ± 0.005
E	mm	49.1	76.0
	in	1.93	2.99
F	mm	307.3 ± 1.5	431.3 ± 1.5
	in	12.10 ± 0.06	16.98 ± 0.06
G	mm	358.6 ± 1.5	523.0 ± 1.5
	in	14.12 ± 0.06	20.59 ± 0.06

Inline Mount

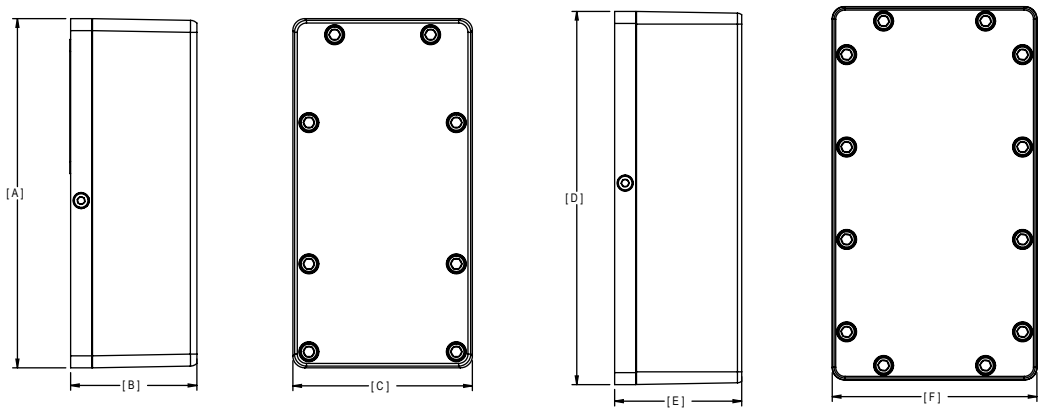




	A
FTX125	□ 124.9 (4.92)
FTX215	□ 215.9 (8.5)

Dimensions shown in metric (English)

Parallel Mount (FTX125)



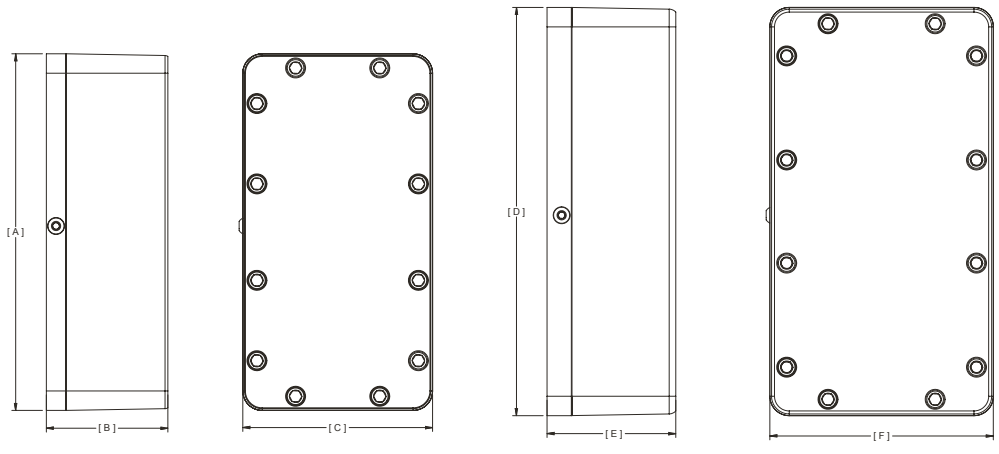
190 mm wide housing

217 mm wide housing

Note: 190 mm wide housing is used for all motors 1:1 drive
217 mm wide housing is used for all 2:1 drive motors

		FTX125	FTX215
A	mm	369.5	466.0
	in	14.55	18.35
B	mm	133.7	158.9
	in	5.26	6.25
C	mm	190.0	248.0
	in	7.48	9.76
D	mm	395.0	533.4
	in	15.55	21.00
E	mm	134.5	168.2
	in	5.30	6.62
F	mm	216.7	292.1
	in	8.53	11.50

Parallel Mount (FTX215)



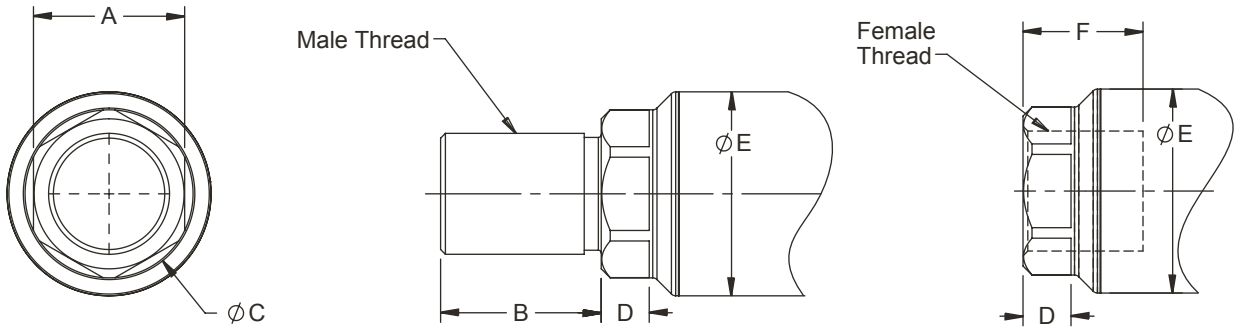
248 mm wide housing

292 mm wide housing

Note: 248 mm wide housing is used for motors with 215 mm B.C. and smaller mounting holes, 1:1 drive

292 mm wide housing is used for all 2:1 drive motors

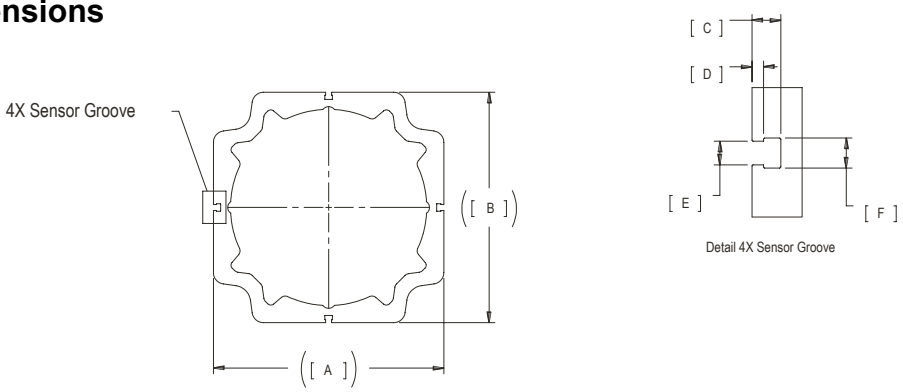
Rod Ends



	A	B	C	D	E	F	Male	Female
FTX125	46.0 (1.81)	57.2 (2.25)	Ø45.0 (1.77)	50.8 (2.00)	Ø15.9 (0.63)	57.2 (2.25)	M33x2 6G	M33x2 6H
FTX215	80.0 (3.15)	85.0 (3.35)	Ø80.0 (3.50)	25.4 (1.00)	Ø108.0 (4.25)	85.0 (3.35)	M64x3 6G	M64x3 6H

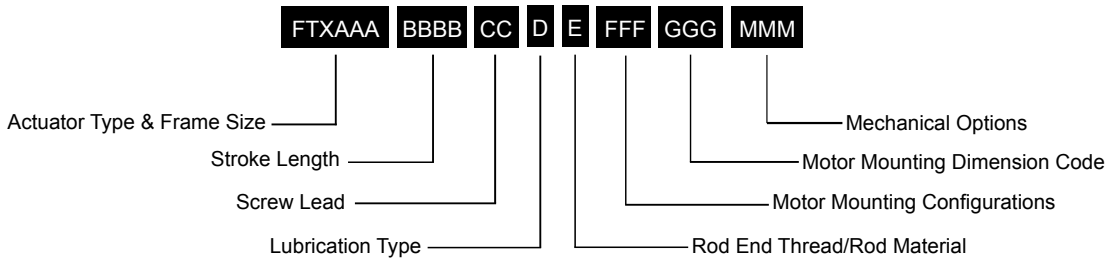
Dimensions shown in metric (English)

Case Dimensions



	A	B	C	D	E	F
FTX125	118 (4.6)	118 (4.6)	5.6 (.22)	1.8 (.07)	5.2 (.21)	6.6 (.26)
FTX215	203 (8.0)	203 (8.0)	6.4 (.25)	2.5 (.10)	5.2 (.21)	6.6 (.26)

Dimensions shown in metric (English)



AAA = Frame Size
125 = 125 mm
215 = 215 mm

BBBB = Stroke Length
0150 = 150 mm
0300 = 300 mm
0600 = 600 mm
0900 = 900 mm

CC = Screw Lead
05 = 5 mm (FTX125)
10 = 10 mm (FTX125)
20 = 20 mm (FTX125)
06 = 6 mm (FTX215)
12 = 12 mm (FTX215)
30 = 30 mm (FTX215)

D = Lubrication Type
1 = Grease
2 = Oil

E = Rod End Thread
A = Male, metric thread
B = Female, metric thread

FFF = Motor Mounting Configurations[1]
NMT = None, base unit only
N10 = Inline, includes shaft coupling
P10 = Parallel, 1:1 belt reduction
P20 = Parallel, 2:1 belt reduction

GGG = Motor Mounting Dimension Code
See standard motor mounting code dimension sheet
NNN = None, base unit only

MMM = Mechanical Options
NNN = None
L1/L2/L3... = External limit switches
ME5 = Front Mounting Flange
MP1 = Rear Clevis[2]
MP3 = Rear Eye[2]
MT2 = Rear Trunnion

For options or specials not listed above, please contact Exlar

NOTES:
1. Always discuss your motor selection with your local sales representative.
2. Not available with inline motor mount, contact your local sales representative.

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