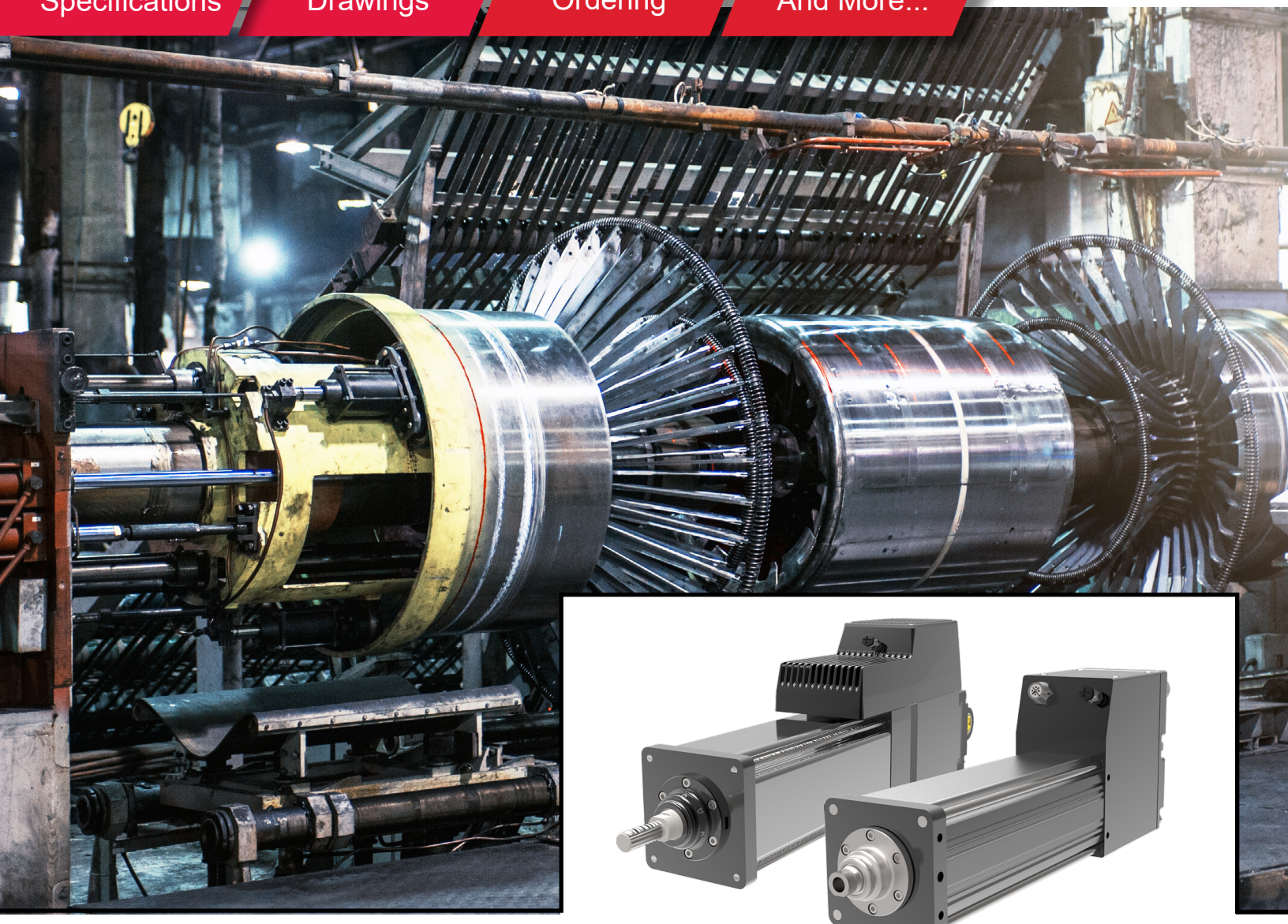
Exlar Tritex II Product Catalog

Intelligent Drive Motor Actuators

Specifications | Drawings | Ordering | And More...



Tritex TDX & T2X075
Intelligent Drive Motor Actuators

Tritex TDM/X060, TDM/X075, and T2X075 Products have been discontinued, this catalog is for reference only

Power | Precision | Proven

May 2025

Contents

Tritex II AC

No Compromising on Power, Performance or Reliability

With forces to approximately 3,225 lbf (14 kN) continuous and 5,400 lbf peak (24 kN), and speeds to 33 in/sec (800 mm/sec), the AC Tritex II linear actuators also offer a benefit that no other integrated product offers: POWER! No longer are you limited to trivial amounts of force, or speeds so slow that many motion applications are not possible. And the Tritex II with AC power electronics operates with maximum reliability over a broad range of ambient temperatures: -40˚C to +65˚C. The AC powered Tritex II actuators contain a 1.5 kW servo amplifier and a very capable motion controller. With standard features such as analog following for position, compound moves, move chaining, and individual force/torque control for each move, the Tritex II Series is the ideal solution for most motion applications.

Tritex II AC Linear Actuator (75 mm)

Tritex II Models

- T2X high mechanical capacity actuator-75 mm

Power Requirements

- AC Power 100V - 240V, +/- 10%, single phase
- Built-in AC line filter
- Connections for external braking resistor

Feedback Types

- Analog Hall with 1000 count/motor rev resolution
- Incremental encoder with 8192 count resolution
- Absolute Feedback (analog hall with multi-turn, battery backup)

Connectivity

- Inernal terminals acessible through removable cover
- Threaded ports for cable glands
- Optional connectors:
  –M23 Power
  –M16 I/O (M23 on 75 mm)
- M8 connector for RS485
- M12 connector for Ethernet options
- Custom connection options

Technical Characteristics	
Frame Sizes in (mm)	2.9 (75)
Screw Leads	0.1 (2), 0.2 (5), 0.5 (13), 0.75 (19)
Standard Stroke Lengths in (mm)	3 (76), 4 (102), 6 (152), 10 (254), 12 (305), 14 (356), 18 (457)
Force Range	up to 3225 lbf (14 kN)
Maximum Speed	up to 33.3 in/s (846 mm/s)

Operating Conditions and Usage		
Accuracy:		
Screw Lead Error	in/ft (µm / 300 mm)	0.001 (25)
Screw Travel Variation	in/ft (µm / 300 mm)	0.0012 (30)
Screw Lead Backlash	in	0.004 (T2X)
Ambient Conditions:		
Standard Ambient Temperature	°C	0 to 65
Extended Ambient Temperature**	°C	-40 to 65
Storage Temperature	°C	-40 to 85
IP Rating		T2X075 = IP65S
NEMA ratings		UL Type 4 UL Type 4
Vibration		2.5 g rms, 5 to 500 hz

**Consult Exlar for extended temperature operation.

Discontinued

Communications & I/O

Digital Inputs:
10 to 30 VDC Opto-isolated

Digital Outputs:
30 VDC maximum
100 mA continuous output Isolated

Analog Input AC:
0-10V or +/-10V
0-10V mode, 12 bit resolution
+/-10V mode, 13 bit resolution assignable to Position, Velocity,
Torque, or Velocity Override commands.

Analog Output AC:
0-10V
11 bit resolution on 75

IA4 option:
4-20 mA input
16 bit resolution Isolated
Assignable to Position, Velocity, or Torque command

4-20 mA output
12 bit resolution
Assignable to Position, Velocity, Current, Temperature, etc

Standard Communications:
- 1 RS485 port, Modbus RTU, opto-isolated for programming, controlling and monitoring

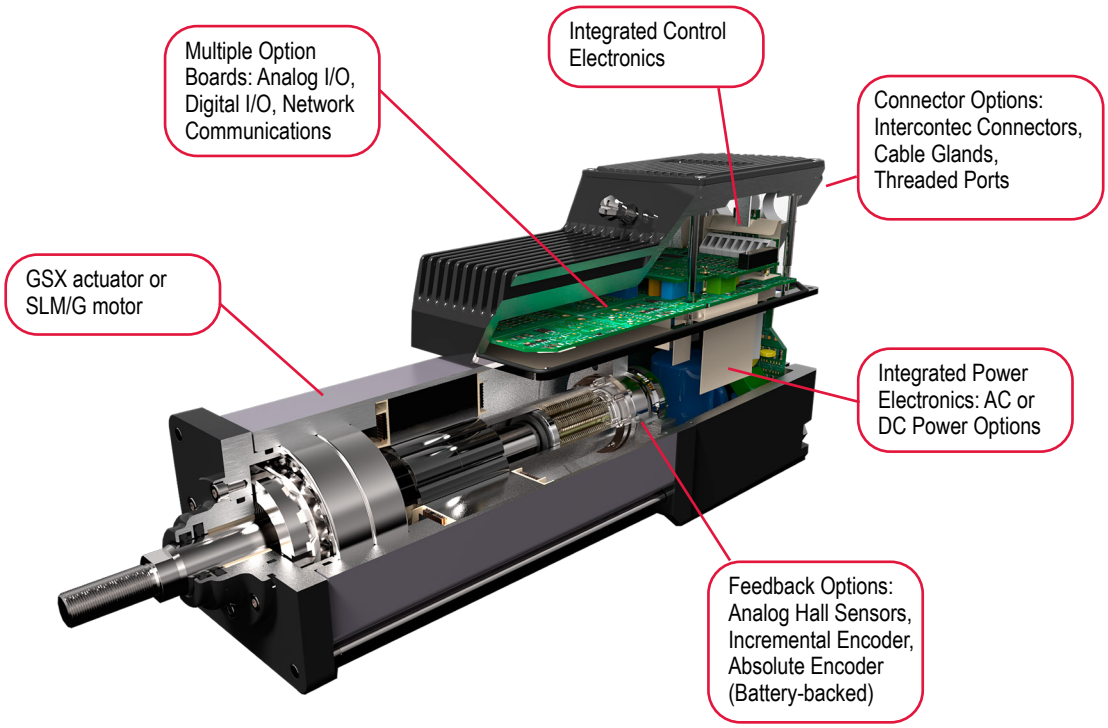
The IO count and type vary with the actuator model and option module selected.

All models include isolated digital IO, and an isolated RS485 communication port when using Modbus RTU protocol.

Tritex II AC I/O

	75 mm frame with SIO, EIP, PIO, TCP	75 mm frame with IA4
Isolated digital inputs	8	4
Isolated digital outputs	4	3
Analog input, non isolated	1	0
Analog output, non isolated	1	0
Isolated 4-20ma input	0	1
Isolated 4-20ma output	0	1

Product Features



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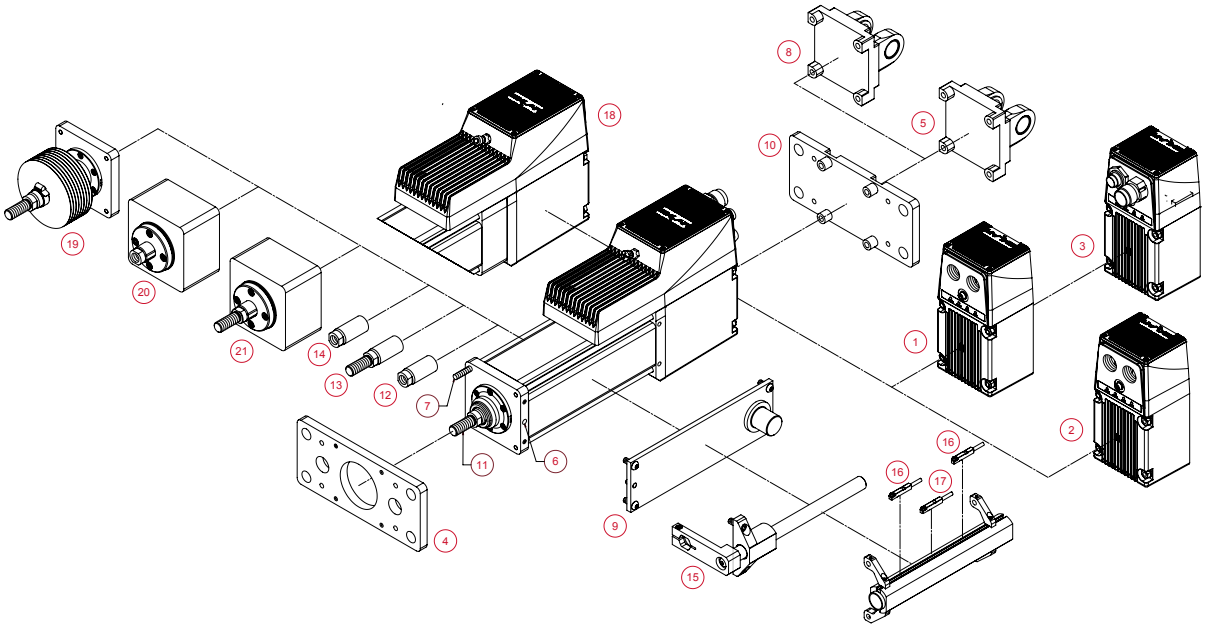


1 - Standard Straight Threaded Port with Internal terminals, M20 x 1.5
2 - NPT Threaded Port via Adapter with Internal Terminals, 1/2" NPT
3 - Intercontec Style - Exlar standard, M16/M23 Style Connector 4 - Front flange 5- Rear clevis
6 - Double side mount and metric double side mount 7 - Extended tie rods and metric extended tie rods 8 - Metric rear clevis
9 - Side trunnion and metric side trunnion 10 - Rear flange 11 - Male, metric thread 12 - Female, metric thread 13 - Male, US standard thread
14 - Female, US standard thread 15 - External anti-rotate 16 - External limit switch - N.C., PNP 17 - External limit switch - N.O., PNP
18 - Rear brake 19 - Protective bellows 20 - Splined main rod- Female 21 - Splined main rod - Male

Industries and Applications

Hydraulic cylinder replacement
Ball screw replacement
Pneumatic cylinder replacement

Automotive
- Clamping
- Dispensing
- Automated Assembly
- Flexible Tooling

Food Processing
- Depositing
- Slicing
- Diverters / Product Conveyance
- Sealing

Process Control
- Oil & Gas Wellhead Valve Control
- Pipeline Valve Control
- Damper Control
- Knife Valve Control
- Chemical pumps

Entertainment / Simulation
- Ride Motion Bases
- Animatronics

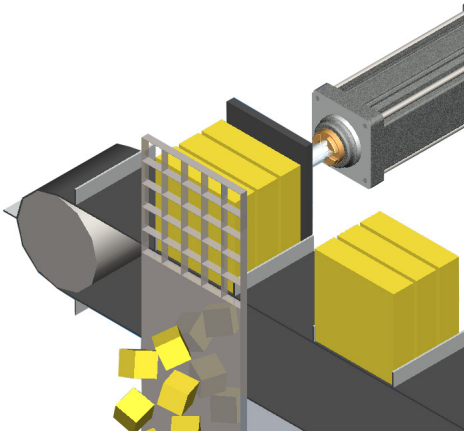
Medical Equipment
- Volumetric Pumps

Plastics
- Forming
- Part Eject
- Core Pull

Material Handling
- Robotic End Effectors
- Edge Guiding

Exlar actuators can provide precision at high force loads for fluid dispensing in a medical environment.

Efficient food processing and packaging operations demand robust technologies that are powerful, durable, precise, and safe for food. Exlar products are ideal for these for harsh, high-capacity production environments



Discontinued

Mechanical Specifications

T2X075

		Stator	1 Stack	2 Stack	3 Stack
Lead		RPM @ 240 VAC	4000	3000	2000
0.1	Continuous Force	lbf (N)	589 (2,620)	990 (4,404)	NA
	Peak Force	lbf (N)	1,178 (5,240)	1,980 (8,808)***	NA
	Max Speed	in/sec (mm/sec)	6.67 (169)	5.00 (127)	NA
	T2X - C_a (Dynamic Load Rating)	lbf (N)	5516 (24536)		NA
0.2	Continuous Force	lbf (N)	334 (1,486)	561 (2,496)	748 (3,327)
	Peak Force	lbf (N)	668 (2,971)	1,122 (4,991)	1,495 (6,650)
	Max Speed	in/sec (mm/sec)	13.33 (339)	10.00 (254)	6.67 (169)
	T2X - C_a (Dynamic Load Rating)	lbf (N)	5800 (25798)		
0.5	Continuous Force	lbf (N)	141 (627)	238 (1,059)	317 (1,410)
	Peak Force	lbf (N)	283 (1,259)	475 (2,113)	633 (2,816)
	Max Speed	in/sec (mm/sec)	33.33 (847)	25.00 (635)	16.67 (423)
	T2X - C_a (Dynamic Load Rating)	lbf (N)	4900 (21795)		
Drive Current @ Continuous Force		Amps	3.1	3.8	3.6
Available Stroke Lengths		in (mm)	3 (76), 6 (150), 10 (254),12 (305), 14 (356), 18 (457)		
Inertia (zero stroke)		lb-in-s^2/ Kg-m^2	0.002655 (0.000003000)	0.002829 (0.000003196)	0.003003 (0.0000033963)
Inertia Adder (per inch of stroke)		lb-in-s^2/in/ Kg-m^2/in	0.0001424 (0.0000001609)		
Approximate Weight		lb (kg)	10.8 (4.9) for 3 inch stroke, 1 stack. Add 1.1 (0.5) per inch of stroke. Add 1.1 (0.5) per motor stack. Add .8 (0.4) for brake.		
Operating Temperature Range*			-20C to 65C (-40˚C available, consult Exlar)		
Continuous AC Input Current**		Amps	4.3	4	3.6
Rear Brake Current Draw		0.50 Amps @ 24 VDC			

* Ratings based on 40˚C conditions. ** Continuous input current rating is defined by UL and CSA *** T2X peak force for 0.1 inch lead is 1980 lbf (8808 N)

Discontinued

DEFINITIONS:

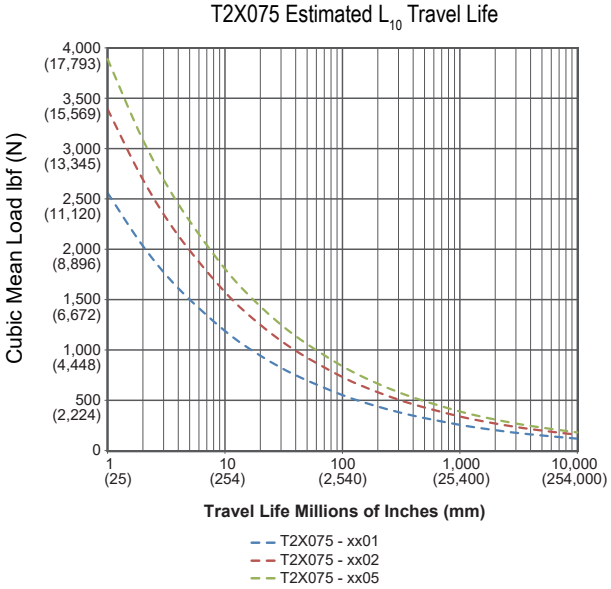
Continuous Force: The linear force produced by the actuator at continuous motor torque.

Peak Force: The linear force produced by the actuator at peak motor torque.

Max Speed: The maximum rated speed produced by the actuator at rated voltage.

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

Estimated Service Life



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 are expected to meet or exceed. For higher than 90% reliability, the result should be multiplied by the following factors: 95% x 0.62; 96% x 0.53; 97% x 0.44; 98% x 0.33; 99% x 0.21. This is not a guarantee; 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)

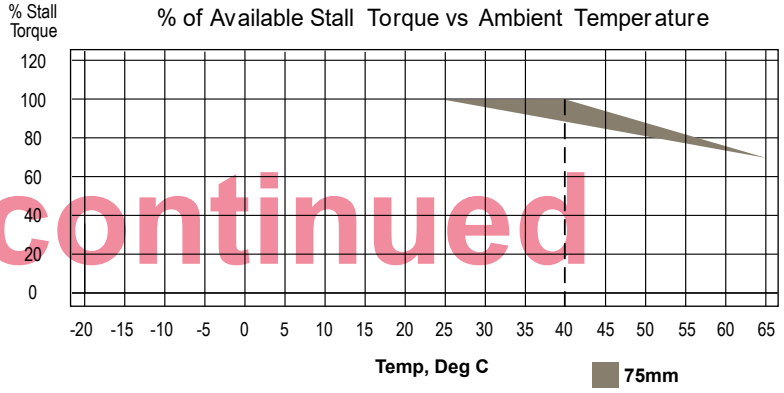
$$L_{10} = \left(\frac{C_a}{F_{cml}} \right)^3 \times \ell$$

All curves represent properly lubricated and maintained actuators.

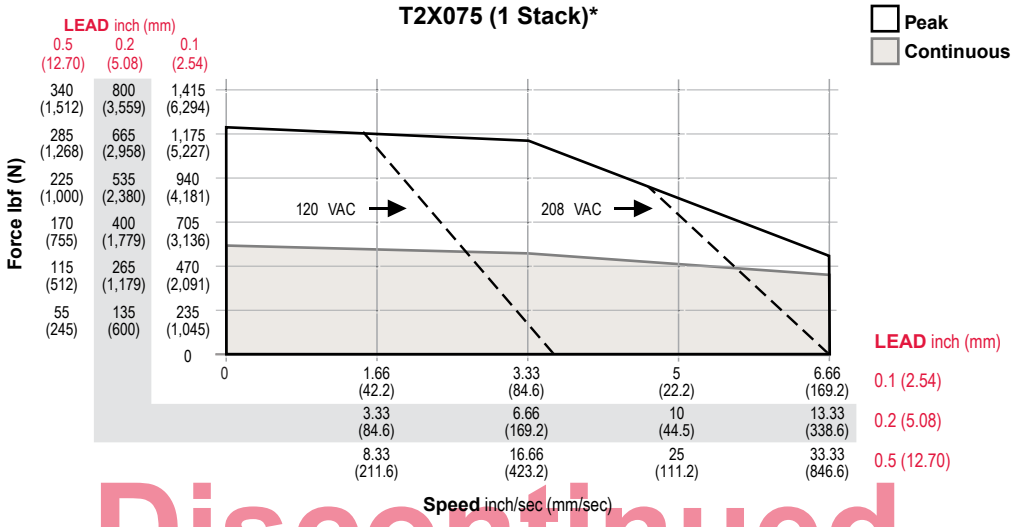
Speed vs. Force Curves

Temperature Derating

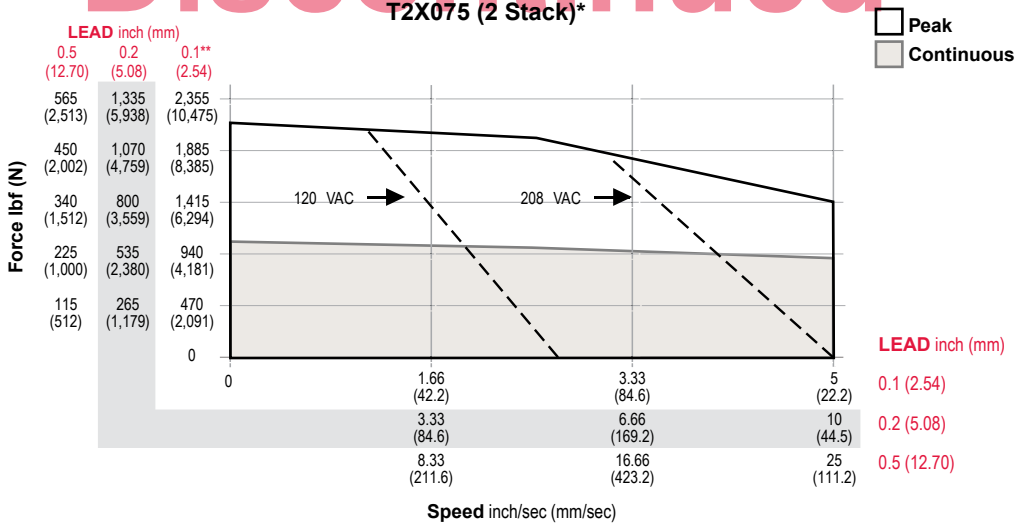
The speed/torque curves are based on 40° C ambient conditions. The actuators may be operated at ambient temperatures up to 65° C. Use the curve (shown right) for continuous torque/force deratings above 40° C.



T2X075 (1 Stack)*

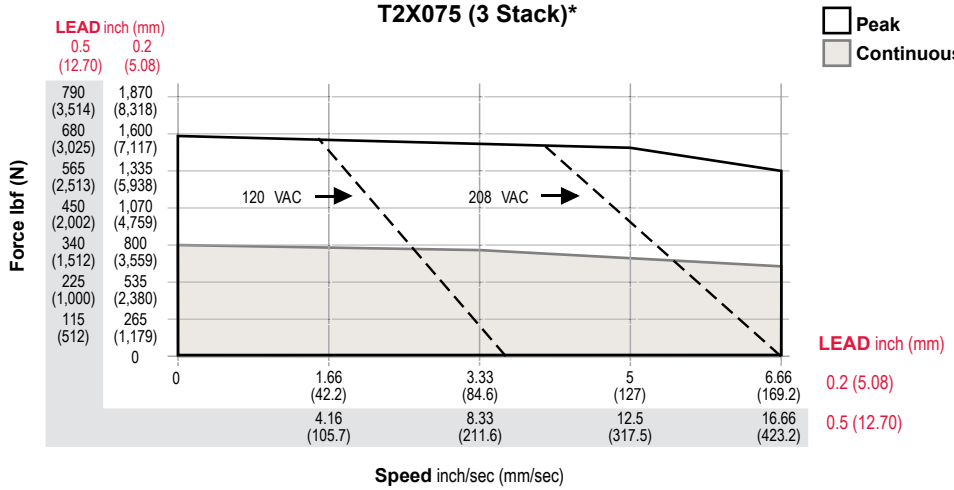


T2X075 (2 Stack)*



**T2X peak force for 0.1 inch lead is 1980 lbf (8808 N).

T2X075 (3 Stack)*



*Test data derived using NEMA recommended aluminum heatsink 10" x 10" x 3/8" at 40°C ambient.

Options

AR = External Anti-rotate Assembly

This option provides a rod and bushing to restrict the actuator rod from rotating when the load is not held by another method. Shorter actuators have single sided anti-rotation attachments. Longer lengths require attachments on both sides for proper operation. For AR dimensions, see page 56.

L1, L2, L3 = Adjustable External Travel Switches

This option allows up to 3 external switches to be included. These switches provide travel indication to the controller and are adjustable. See drawing on page 29. Must purchase external anti-rotate with this option.

PB = Protective Bellows

This option provides an accordion style protective bellows to protect the main actuator rod from damage due to abrasives or other contaminants in the environment in which the actuator must survive. The standard material of this bellows is S2 Neoprene Coated Nylon, Sewn Construction. This standard bellows is rated for environmental temperatures of -40 to 250 degrees F. Longer strokes may require the main rod of the actuator to be extended beyond standard length. Not available with extended tie rod mounting option. Please contact your local sales representative.

RB = Rear Electric Brake

This option provides an internal holding brake. The brake is spring activated and electrically released.

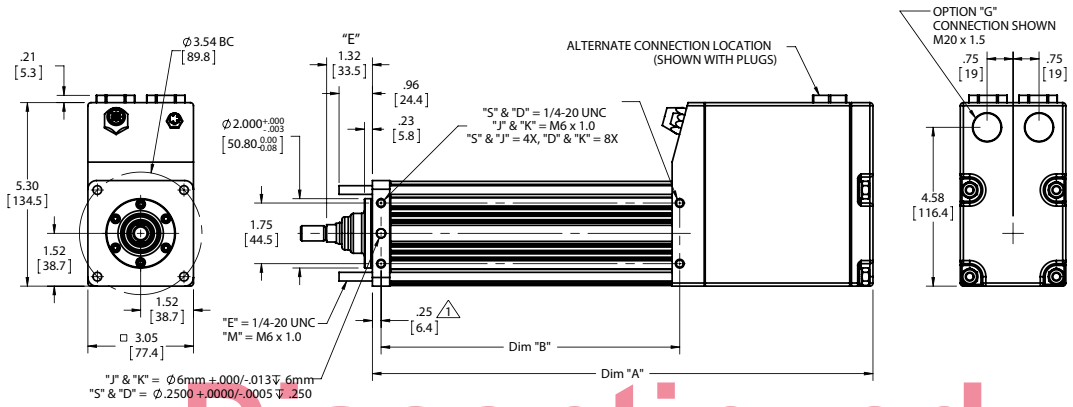
SR = Splined Main Rod

A ball spline shafting main rod with a ball spline nut that replaces the standard front seal and bushing assembly. This rod restricts rotation without the need for an external mechanism. The rod diameter will be the closest metric equivalent to our standard rod sizes. Since this option is NOT sealed, it is not suitable for environments in which contaminants may enter the actuator.

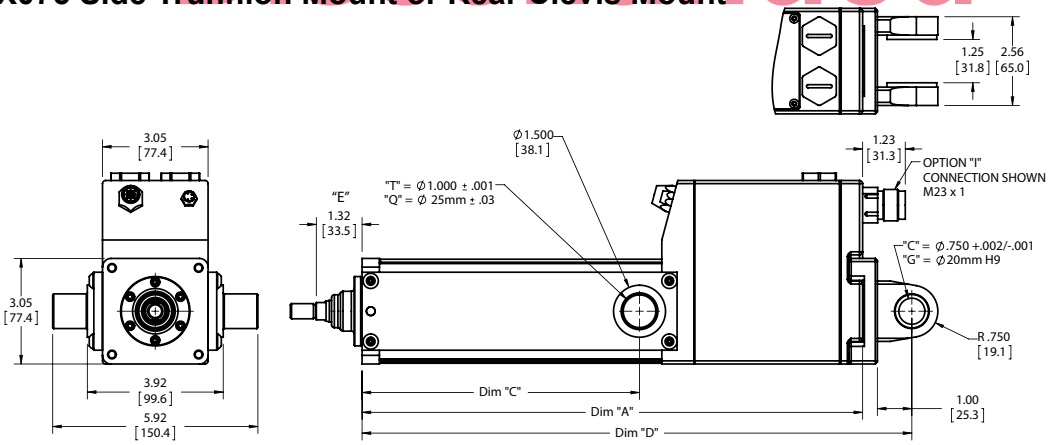
Note: Adding this option affects the overall length and mounting dimensions.

Dimensions

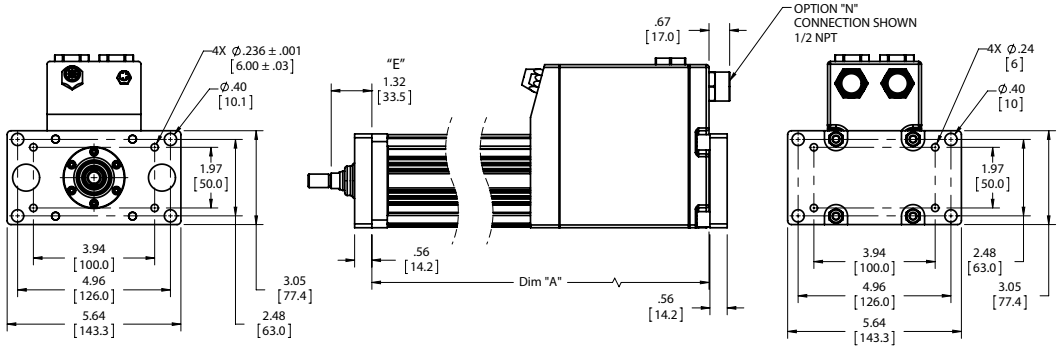
T2X075 Double Side Mount or Extended Tie Rod Mount



T2X075 Side Trunnion Mount or Rear Clevis Mount



T2X075 Front, Rear, or Front and Rear Flange Mount

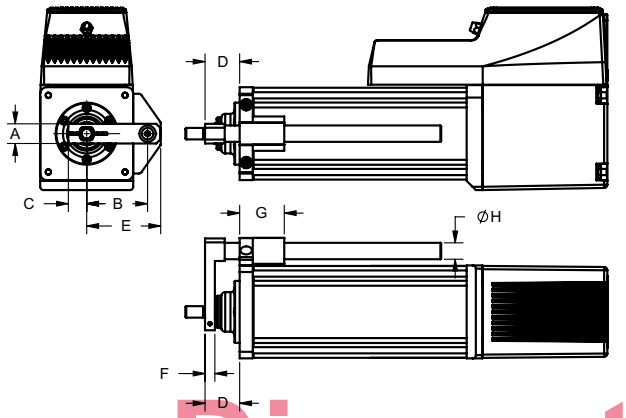


DIM	3 in (75 mm) stroke in (mm)	6 in (150 mm) stroke in (mm)	10 in (250 mm) stroke in (mm)	12 in (300 mm) stroke in (mm)	14 in (350 mm) stroke in (mm)	18 in (450 mm) stroke in (mm)
A	11.98 (304.3)	14.45 (367.0)	18.95 (481.3)	20.95 (532.1)	22.95 (582.9)	26.95 (684.5)
B	6.15 (156.2)	8.62 (218.9)	13.12 (333.2)	15.12 (384.0)	17.12 (434.8)	21.12 (536.4)
C	5.38 (136.7)	8.00 (203.2)	10.00 (254.0)	12.00 (304.8)	14.00 (355.6)	18.00 (457.2)
D	13.40 (340.4)	15.87 (403.1)	20.37 (517.4)	22.37 (568.2)	24.37 (619.0)	28.37 (720.6)

* Add 1.61 inches to dimensions “A”, “B” and “D” if ordering a brake. Add 1.2 inches to dimensions “A”, “C” and “D” and dimension if ordering a splined ⚠ main rod.
**Add 2 in (50.8 mm) to dimension “E” if ordering protective bellows.

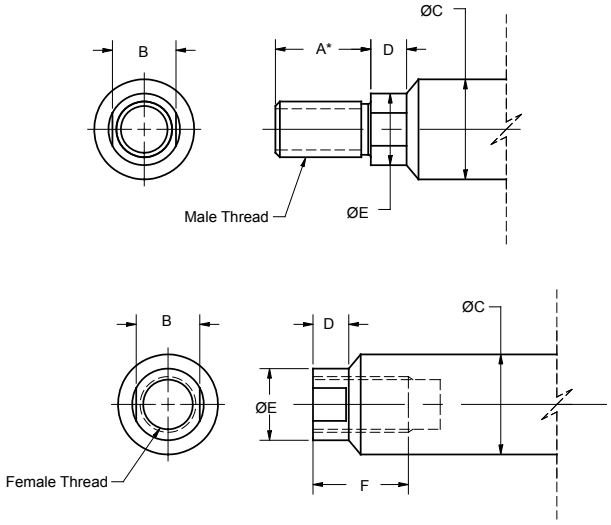
Pre-sale drawings and models are representative and are subject to change. Certified drawings and models are available for a fee. Consult your local Exlar representative for details.

Anti-Rotate Option



DIM in (mm)	T2X075*
A	0.82 (20.8)
B	2.20 (56.0)
C	0.60 (15.3)
D	1.32 (33.5)
E	2.70 (68.7)
F	0.39 (9.9)
G	1.70 (43.2)
ØH	0.63 (16.0)

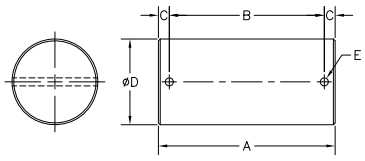
Actuator Rod End Option



DIM in (mm)	T2X075*
A*	0.750 (19.1)*
B	0.500 (12.7)
ØC	0.625 (15.9)
D	0.281 (7.1)
ØE	0.562 (14.3)
F	0.750 (19.1)
Male–Inch "M"	7/16-20 UNF-2A
Male–Metric "A"	M12 x 1.75 6g
Female–Inch "F"	7/16-20 UNF-2B
Female–Metric "B"	M10 x 1.5 6H

*When ordering the male M12x1.75 main rod for the T2M/X075 dimension "A" will be 1.57 in (40 mm)

Clevis Pin



	T2X075 CP050 Fits Rod Eye, Rod Clevis in (mm)	T2X075 CP075 Fits Rear Clevis in (mm)
A	2.28 (57.9)	3.09 (78.5)
B	1.94 (49.28)	2.72 (69.1)
C	0.17 (4.32)	0.19 (4.82)
ØD	0.50 -0.001/-0.002 (112.7 mm +0.00/-0.05)	0.75 -0.001/-0.002 (19.1 mm +0.00/-0.05)
ØE	0.106 (2.69)	0.14 (3.56)

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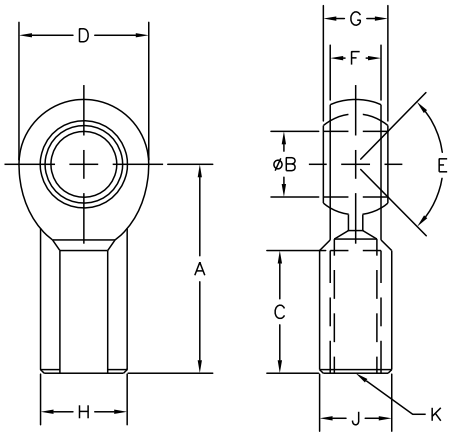
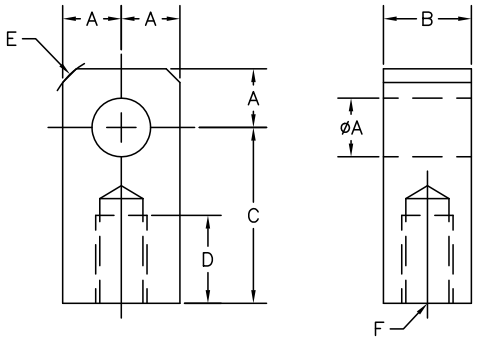
Spherical Rod Eye



DIM in (mm)	T2X075 SRM044
A	1.81 (46.0)
ØB	0.438 (11.13)
C	1.06 (26.9)
D	1.13 (28.7)
E	14 Deg
F	0.44 (11.1)
G	0.56 (14.2)
H	0.75 (19.1)
J	0.63 (16.0)
K	7/16-20

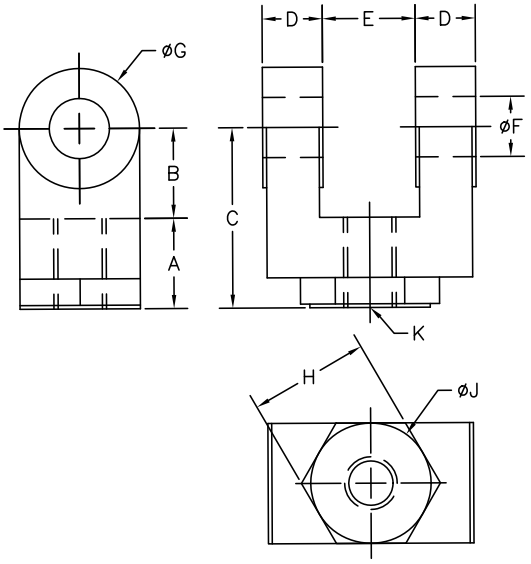
Discontinued

Rod Eye



DIM in (mm)	T2X075 RE050
ØA	0.50 (12.7)
B	0.75 (19.1)
C	1.50 (38.1)
D	0.75 (19.1)
E	0.63 (15.9)
F	7/16-20

Rod Clevis



DIM in (mm)	T2X075 RC050
A	0.750 (19.05)
B	0.750 (19.05)
C	1.500 (38.1)
D	0.500 (12.7)
E	0.765 (19.43)
ØF	0.500 (12.7)
ØG	1.000 (25.4)
H	1.000 (25.4)
ØJ	1.000 (25.4)
K	7/16-20

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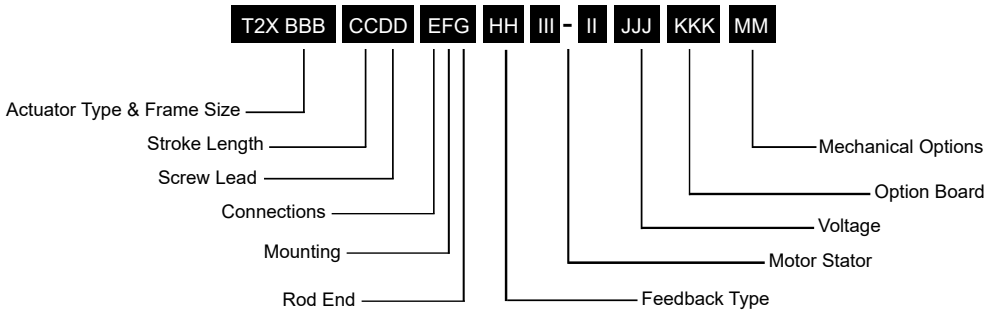
Ordering Information



Actuator Type
T2X = Tritex II Linear Actuator, high mechanical capacity

BBB = Actuator Frame Size
075* = 75 mm

CC = Stroke Length
03 = 3 inch (76 mm)
06 = 6 inch (152 mm)
10 = 10 inch (254 mm)
12 = 12 inch (305 mm)
14 = 14 inch (356 mm)
18 = 18 inch (457 mm)

DD = Screw Lead (linear travel per screw revolution)
01 = 0.1 inch (2.54 mm)
02 = 0.2 inch (5.08 mm)
05 = 0.5 inch (12.7 mm)

E = Connections
G = Standard Straight Threaded Port with Internal terminals, M20 x 1.5
N = NPT Threaded Port via Adapter with Internal Terminals, 1/2" NPT
I = Intercontec Style - Exlar std, M16/M23 Style Connector

F = Mounting
C = Rear Clevis
D = Double Side Mount
E = Extended Tie Rod
F = Front Flange
G = Metric Rear Clevis
K = Metric Double Side Mount
M = Metric Extended Tie Rod
Q = Metric Side Trunnion
R = Rear Flange
T = Side Trunnion

G = Rod End
A = Male Metric Thread [1]
B = Female Metric Thread [1]
F = Female US Standard Thread [1]
M = Male US Standard Thread [1]

HH = Feedback Type
HD = Analog Hall Device
IE = Incremental Encoder, 8192 count resolution
AF = Absolute Feedback

III-II = Motor Stator, All 8 Pole
T2X075 Stator Specifications
138-40 = 1 Stack, 230 VAC, 4000 rpm
238-30 = 2 Stack, 230 VAC, 3000 rpm
338-20 = 3 Stack, 230 VAC, 2000 rpm

JJJ = Voltage
230 = 115-230 VAC, single phase

KKK = Option Board
SIO = Standard I/O Interconnect
IA4 = 4-20 mA Analog I/O
EIP = SIO plus Ethernet/IP w/M12 connector
EIN = SIO plus Ethernet/IP without M12 connector [7]
PIO = SIO plus Profinet IO w/M12 connector
PIN = SIO plus Profinet IO without M12 connector [7]
TCP = SIO plus Modbus TCP w/M12 connector
TCN = SIO plus Modbus TCP without M12 connector [10]

MM = Mechanical Options [3]
AR = External Anti-rotate
L1/2/3 = External Limit Switches [4]
RB = Rear Brake
PB = Protective Bellows (N/A with extended tie rod mounting option)
SR = Splined Main Rod [5]

Discontinued

For options or specials not listed above or for extended temperature operation, please contact Exlar

*TDM/X060, TDM/X075, and T2M/X075 Discontinued Notice, Check with your Rep

NOTES:
1. Chrome-plated carbon steel. Threads not chrome-plated.
2. 0.75 lead not available above 12 inch stroke.
3. For extended temperature operation consult factory for model number.
4. Limit switch option requires AR option.
5. This option is not sealed and is not suitable for any environment in which contaminants come in contact with actuator and may enter the actuator.
6. N/A with 0.1 inch lead
7. Requires customer supplied Ethernet cable through I/O port for Class 1 Division 2 compliance only.
8. Not available with 4 inch stroke.

Cable and Accessories

Tritex II AC Series Cable & Accessories	Part No.
Communications Accessories - Tritex uses a 4 pin M8 RS485 communications connector	
Recommended PC to Tritex communications cable-USB/RS485 to M8 connector - xxx = Length in feet, 006 or 015 only	CBL-T2USB485-M8-xxx
Multi-Drop RS485 Accessories	
RS485 splitter - M8 Pin plug to double M8 Socket receptacle	TT485SP
Multidrop Communications Cable M8 to M8 for use with TT485SP/RS485 splitter - xxx = Length in feet, 006 or 015 only	CBL-TTDAS-xxx
"G" Connection Accessories	
Nickel plated cable gland- M20 x 1.5 - CE shielding- 2 required	GLD-T2M20 x 1.5
Power cable prepared on one end for use with GLD-T2M20 x 1.5 xxx = Length in ft, Standard lengths 015, 025, 050, 075, 100	CBL-T2IPC-RAW-xxx
I/O cable prepared on one end for use with GLD-T2M20 x 1.5 xxx = Length in ft, Standard lengths 015, 025, 050, 075, 100	CBL-T2IOC-RAW-xxx
"N" Connection Accessories	
M20 x 1.5 to 1/2" NPT threaded hole adapter for use with conduit	ADAPT-M20-NPT1/2
"I" Connection	
Power cable with M23 6 pin xxx = Length in feet, std lengths 015, 025, 050, 075, 100	CBL-T2IPC-SMI-xxx
I/O cable (75 mm) with M23 19 pin xxx = Length in feet, std lengths 015, 025, 050, 075, 100	CBL-TTIOC-SMI-xxx
Multi-Purpose Communications Accessories for long runs, requires terminal block interconnections	
USB to RS485 convertor/cable - USB to RS485 flying leads - xxx = Length in feet, 006 or 015 only	CBL-T2USB485-xxx
Communications cable M8 to flying leads cable xxx = Length in feet, standard lengths 015, 025, 050, 075, 100	CBL-TTCOM-xxx
Option Board Cables and Accessories	
EIP, PIO and TCP option Ethernet cable - M12 to RJ45 cable xxx = Length in feet, std lengths 015, 025, 050, 075, 100.	CBL-T2ETH-R45-xxx
Electrical Accessories	
Dynamic Braking Resistor - 100W47Ohm	T2BR1
Replacement -AF Battery - used for absolute feedback option	T2BAT1
Replacement Normally Closed External Limit Switch (Turck Part number BIM-UNT-RP6X)	43404
Replacement Normally Open External Limit Switch (Turck Part number BIM-UNT-AP6X)	43403

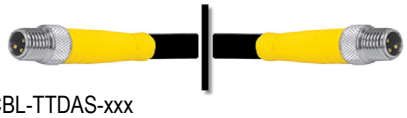
CBL-T2USB485-M8-xxx
Our recommended communications cable. No special drivers or setup required for use with MS Windows™.

CBL-T2USB485-xxx
Use for terminal connections with CBL-TTCOM for long cable runs. No special drivers or setup required for use with MS Windows™.

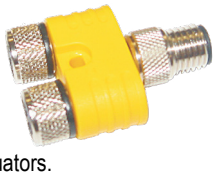
CBL-TTIOC-SMI-xxx

CBL-TTIPC-SMI-xxx

CBL-TTCOM-xxx
Use with CBL-T2USB485-xxx for long cable runs.



CBL-TTDAS-xxx
For use with TT485SP for multi-drop applications.



TT485SP
RS485 communications splitter. Use to daisy-chainmultiple Tritex actuators.

Discontinued

Tritex II DC

Linear & Rotary Actuators

No Compromising on Power, Performance or Reliability
With forces to approximately 950 lbs (4kN) continuous and 1,300 lbf peak (6 kN), and speeds to 33 in/sec (800 mm/sec), the DC Tritex II linear actuators also offer a benefit that no other integrated product offers: POWER! No longer are you limited to trivial amounts of force, or speeds so slow that many motion applications are not possible. And the new Tritex II with DC power electronics operates with maximum reliability over a broad range of ambient temperatures: -40˚C to +65˚C. The DC powered Tritex II actuators contain a 750 W servo amplifier and a very capable motion controller. With standard features such as analog following for position, compound moves, move chaining, and individual force/torque control for each move, the Tritex II Series is the ideal solution for most motion applications.

Tritex II Linear DC Actuator

Tritex II Linear Actuator with Customer-supplied Cable Glands Ports

Tritex II Models

- TDX high mechanical capacity actuator, 60, and 75 mm

Power Requirements

- DC Power 12-48 VDC nominal
- Connections for external braking resistor

Feedback Types

- Analog Hall with 1000 count resolution
- Incremental encoder with 8192 count resolution
- Absolute Feedback (analog hall with multi-turn, battery backup)

Connectivity

- Internal terminals accessible through removable cover (75 and 90 mm models)
- Threaded ports for cable glands (75 and 90 mm models)
- Optional connectors - M23 Power - M23 I/O
- M8 connector for RS485
- M12 connector for EtherNet options
- Custom connection options
- Embedded leads

Technical Characteristics	
Frame Sizes in (mm)	2.3 (60), 2.9 (75)
Screw Leads in (mm)	0.1 (2), 0.2 (5), 0.4 (10), 0.5 (13)
Standard Stroke Lengths in (mm)	3 (76), 6 (152), 10 (254), 12 (305), 14 (356), 18 (457)
Force Range	up to 872 lbf (3879 N)
Maximum Speed	up to 33.3 in/s (846 mm/s)

Operating Conditions and Usage		
Accuracy:		
Screw Lead Error	in/ft (µm / 300 mm)	0.001 (25)
Screw Travel Variation	in/ft (µm / 300 mm)	0.0012 (30)
Screw Lead Backlash	in	0.004 (TDX),
Ambient Conditions:		
Standard Ambient Temperature	°C	0 to 65
Extended Ambient Temperature**	°C	-40 to 65
Storage Temperature	°C	-40 to 85
IP Rating		TDX = IP66S
NEMA Ratings		None
Vibration		5.0 g rms, 5 to 500 hz

*Ratings at 40°C, operation over 40°C requires de-rating.
**Consult Exlar for extended temperature operation.

Communications & I/O

Digital Inputs:
9 to 30 VDC Opto-isolated

Digital Outputs:
30 VDC maximum
100 mA continuous output
Isolated
Short circuit and over temperature protected

Analog Input DC:
0-10V or +/-10V
0-10V mode, 12 bit resolution
+/-10V mode, 13 bit resolution assignable to Position, Velocity, Torque, or Velocity override command

Analog Output DC:
0-10V
11 bit resolution

IA4 option:
4-20 mA input
16 bit resolution
Isolated
Assignable to Position, Velocity, Torque, or Velocity Override command

4-20 mA output
12 bit resolution
Assignable to Position, Velocity, Current, Temperature, etc.

Standard Communications:
- 1 RS485 port, Modbus RTU, opto-isolated for programming, controlling and monitoring

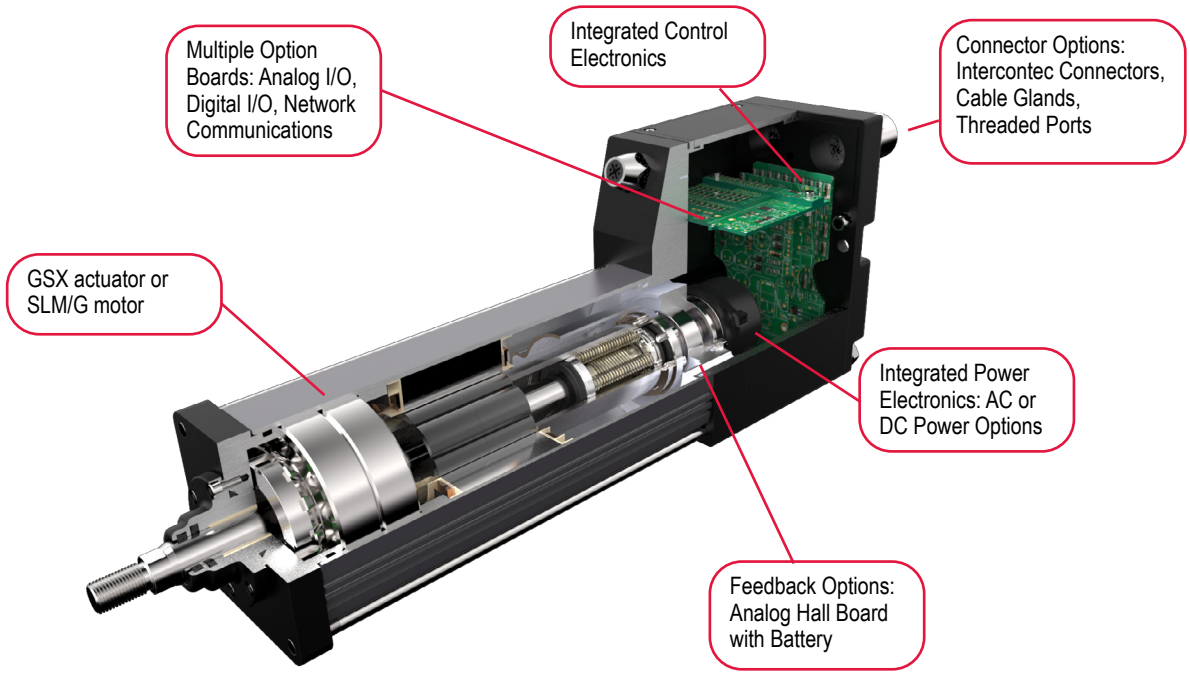
Tritex II DC I/O		
	60/75/90 mm frame with SIO, EIP, PIO, TCP	60/75/90 mm frame with IA4
Isolated digital inputs	8	4
Isolated digital outputs	4	3
Analog input, non isolated	1	0
Analog output, non isolated	1	0
Isolated 4-20ma input	0	1
Isolated 4-20ma output	0	1

The IO count and type vary with the actuator model and option module selected.

All models include isolated digital IO, and an isolated RS485 communication port when using Modbus RTU protocol.

Discontinued

Product Features



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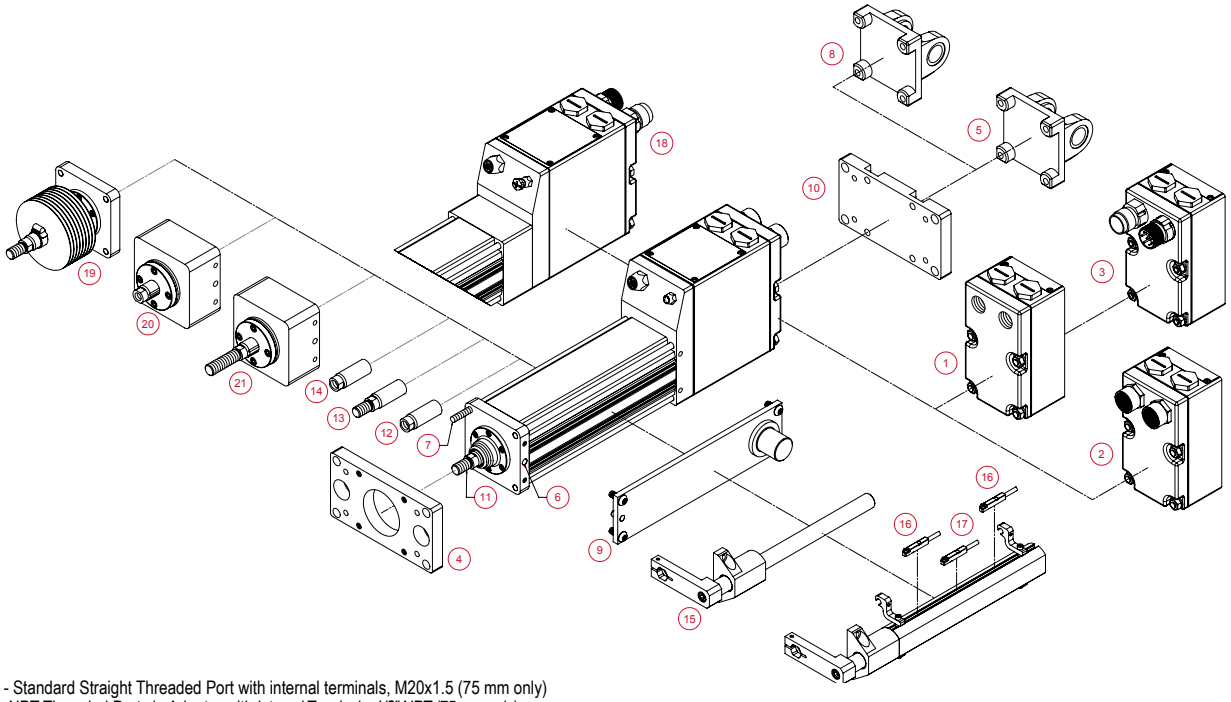


1 - Standard Straight Threaded Port with internal terminals, M20x1.5 (75 mm only)
2 -NPT Threaded Port via Adapter with Internal Terminals, 1/2" NPT (75 mm only)
3 - Interconnect Style - Exlar standard, M23 Style Connector 4 - Front Flange 5 - Rear Clevis
6 - Double Side Mount and Metric Double Side Mount 7 - Extended Tie Rod and Metric Extended Tie Rod 8 - Metric Rear Clevis
9 - Metric Side Trunnion and Side Trunnion 10 - Female Metric Thread 11 - Male Metric Thread 12 - Female Metric Thread 13 - Male US Standard Thread
14- Female US Standard Thread 15 - External Anti-rotate 16 - External Limit Switch - N.C., PNP 17 - External Limit Switch - N.O., PNP 18 - Rear Brake
19 - Protective Bellows 20 - Splined Main Rod - Female 21 - Splined Main Rod - Male

Industries and Applications

Hydraulic cylinder replacement
Ball screw replacement
Pneumatic cylinder replacement

Mobile Equipment
Unmanned Vehicles

Process Control
Oil & Gas Wellhead Valve Control
Pipeline Valve Control
Damper Control
Knife Valve Control
Chemical pumps

Entertainment / Simulation
Ride Motion Bases
Animatronics

Since no fluids and associated equipment (pumps, compressors, filters, accumulators, hose/tubing, oil testing, etc.) are required, electromechanical actuators offer greater energy efficiency, less environmental impact and lower total life-cycle cost.

The Tritex II Series DC actuators integrate a DC powered servo drive, digital position controller, brushless motor, and linear actuator in a compact, sealed package making it perfect for environments where AC power is difficult to achieve.

Discontinued

Mechanical Specifications

TDX060

		Stator	1 Stack	2 Stack	3 Stack
Lead		RPM @ 48 VDC	5000	5000	4000
0.1	Continuous Force	lbf (N)	339 (1508)	528 (2349)	N/A
	Peak Force	lbf (N)	641 (2851)	666 (2963)	N/A
	Max Speed @ 48 VDC	in/sec (mm/sec)	8.33 (211.6)	8.33 (211.6)	N/A
	TDX - C_a (Dynamic Load Rating)	lbf (N)	2075 (9230)		NA
0.2	Continuous Force	lbf (N)	180 (801)	280 (1246)	347 (1544)
	Peak Force	lbf (N)	340 (1512)	354 (1575)	454 (2019)
	Max Speed @ 48 VDC	in/sec (mm/sec)	16.67 (423.4)	16.67 (423.4)	13.33 (338.6)
	TDX - C_a (Dynamic Load Rating)	lbf (N)	1540 (6850)		
0.4	Continuous Force	lbf (N)	95 (423)	148 (658)	184 (818)
	Peak Force	lbf (N)	180 (801)	187 (832)	240 (1068)
	Max Speed @ 48 VDC	in/sec (mm/sec)	33.33 (847)	33.33 (847)	26.67 (677.4)
	TDX - C_a (Dynamic Load Rating)	lbf (N)	1230 (5471)		
Drive Current @ Continuous Force		Amps	14.75	21.5	21.5
Available Stroke Lengths	in (mm)	3 (75), 6 (150), 10 (254), 12 (300)			
Inertia (zero stroke)		lb-in-s^2/ Kg-m^2	0.0007758 (0.0000008766)	0.0008600 (0.0000009717)	0.0009442 (0.000001067)
Inertia Adder (per unit of stroke)		lb-in-s^2/in/ Kg-m^2/in	0.00004667 (0.00000005273)		
Approximate Weight	lb (kg)	4 lbs – 3 in stroke, 1 stack, add 1 lb per inch of stroke, add 3 lbs per stack, add 3 lbs for brake. (1.8 kg – 75 mm stroke, 1 stack, add 0.5 kg per 25 mm of stroke, add 1.4 kg per stack, add 1.4 kg for brake.)			
Operating Temperature Range**		-20 to 65˚ C (-40˚C available, consult Exlar)			
Maximum Continuous Power Supply Current*		Amps	11	15	15

*Power supply current is based on software current limit, not thermal limit. Consideration for peak current should also be considered when sizing power supplies.
**Rating based on 40˚ C ambient conditions.

TDX075

		Stator	1 Stack	2 Stack	3 Stack
Lead		RPM @ 48 VDC	3000	3000	2000
0.1	Continuous Force	lbf (N)	613 (2727)	872 (3879)	NA
	Peak Force	lbf (N)	884 (3932)	1190 (5293)	NA
	Max Speed @ 48 VDC	in/sec (mm/sec)	5.00 (127)	5.00 (127)	NA
	TDX - C_a (Dynamic Load Rating)	lbf (N)	5516 (24536)		NA
0.2	Continuous Force	lbf (N)	347 (1544)	494 (2197)	774 (3443)
	Peak Force	lbf (N)	501 (2229)	674 (2998)	1095 (4871)
	Max Speed @ 48 VDC	in/sec (mm/sec)	10.00 (254)	10.00 (254)	6.67 (169.4)
	TDX - C_a (Dynamic Load Rating)	lbf (N)	5800 (25798)		
0.5	Continuous Force	lbf (N)	147 (654)	209 (930)	328 (1459)
	Peak Force	lbf (N)	212 (943)	286 (1272)	464 (2064)
	Max Speed @ 48 VDC	in/sec (mm/sec)	25.00 (635)	25.00 (635)	16.67 (423.4)
	TDX - C_a (Dynamic Load Rating)	lbf (N)	4900 (21795)		
Drive Current @ Continuous Force		Amps	18.5	22.5	22.5
Available Stroke Lengths in (mm)		3 (75), 6 (150), 10 (254), 12 (300), 14 (355), 18 (450)			
Inertia (zero stroke)		lb-in-s^2/ Kg-m^2	0.01132 (0.000012790)	0.01232 (0.00001392)	0.01332 (0.00001505)
Inertia Adder (per unit of stroke)		lb-in-s^2/in/ Kg-m^2/in	0.0005640 (0.0000006372)		
Approximate Weight lb (kg)		11 lbs – 3 in stroke, add 1 lb per inch of stroke, add 3 lbs per stack, add 3 lbs for brake. (5 kg – 75 mm stroke, 1 stack, add 0.5 kg per 25 mm of stroke, add 1.4 kg per stack, add 1.4 kg for brake.)			
Operating Temperature Range**		-20 to 65˚ C (-40˚C available, consult Exlar)			
Maximum Continuous Power Supply Current*		Amps	15	18	18

**Power supply current is based on software current limit, not thermal limit. Consideration for peak current should also be considered when sizing power supplies.*
***Rating based on 40˚ C ambient conditions.*

Discontinued

DEFINITIONS:

Continuous Force: The linear force produced by the actuator at continuous motor torque.

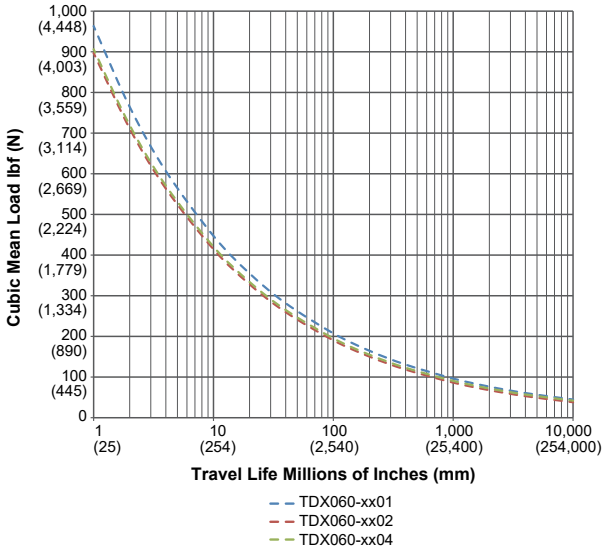
Peak Force: The linear force produced by the actuator at peak motor torque.

Max Speed: The maximum rated speed produced by the actuator at rated voltage.

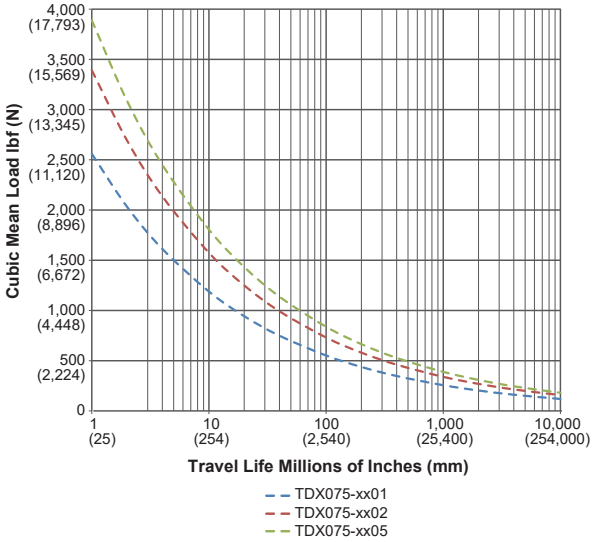
C_a (Dynamic Load Rating): A design constant used in calculating the estimated travel life of the roller screw.

Estimated Service Life

TDX060 Estimated L_{10} Travel Life



TDX075 Estimated L_{10} Travel Life



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 are expected to meet or exceed. For higher than 90% reliability, the result should be multiplied by the following factors: 95% x 0.62; 96% x 0.53; 97% x 0.44; 98% x 0.33; 99% x 0.21. This is not a guarantee; 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)

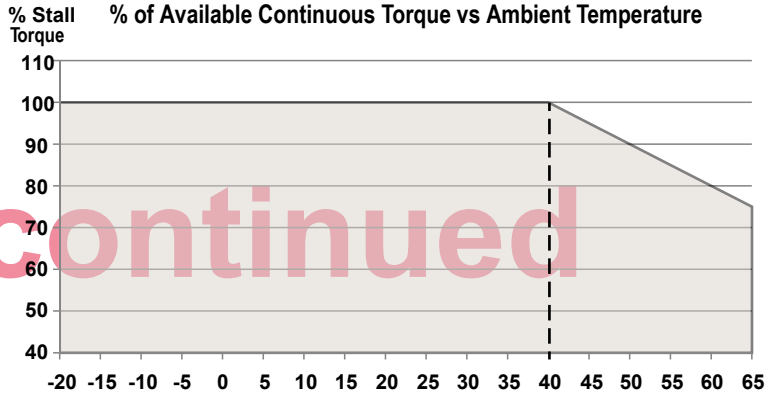
$$L_{10} = \left(\frac{C_a}{F_{cml}} \right)^3 \times \ell$$

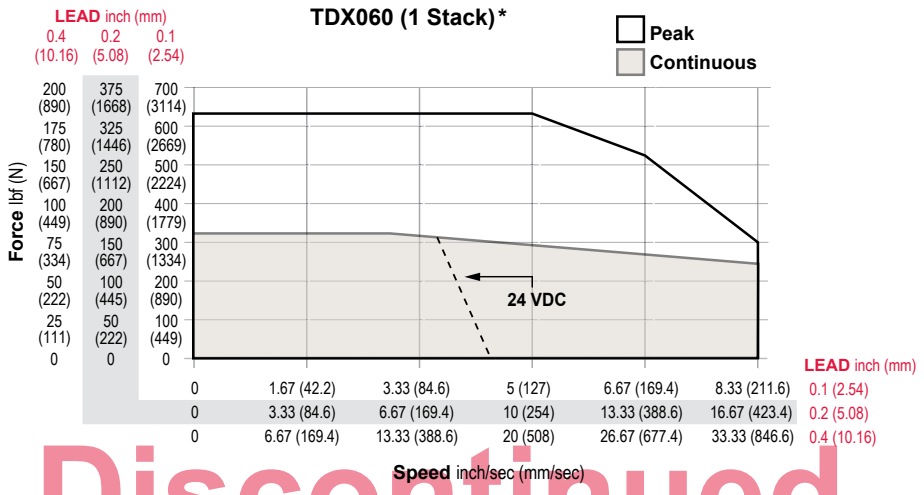
All curves represent properly lubricated and maintained actuators.

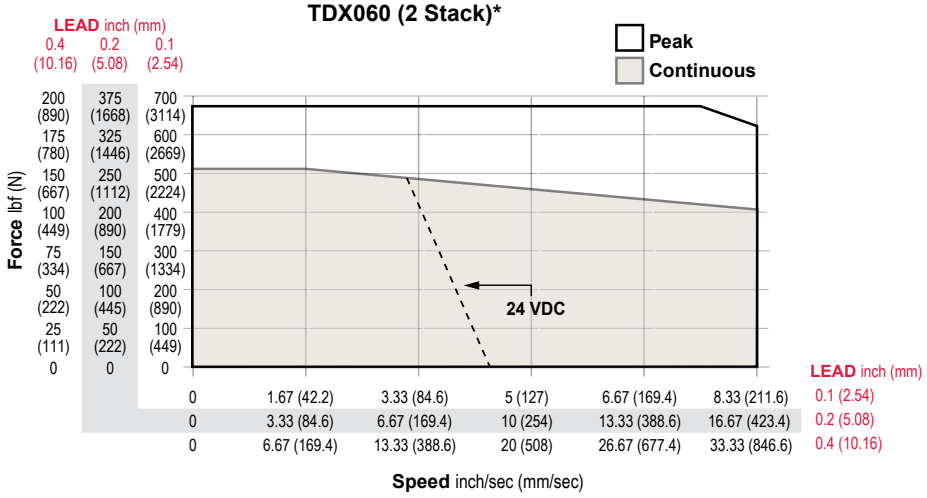
Speed vs. Force Curves

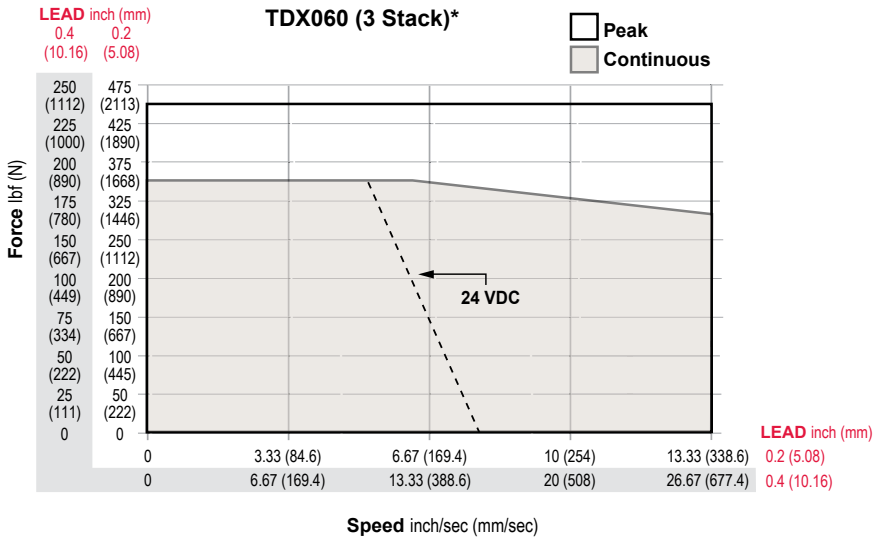
Temperature Derating

The speed/torque curves are based on 40° C ambient conditions. The actuators may be operated at ambient temperatures up to 65° C. Use the curve (shown right) for continuous torque/force deratings above 40° C.

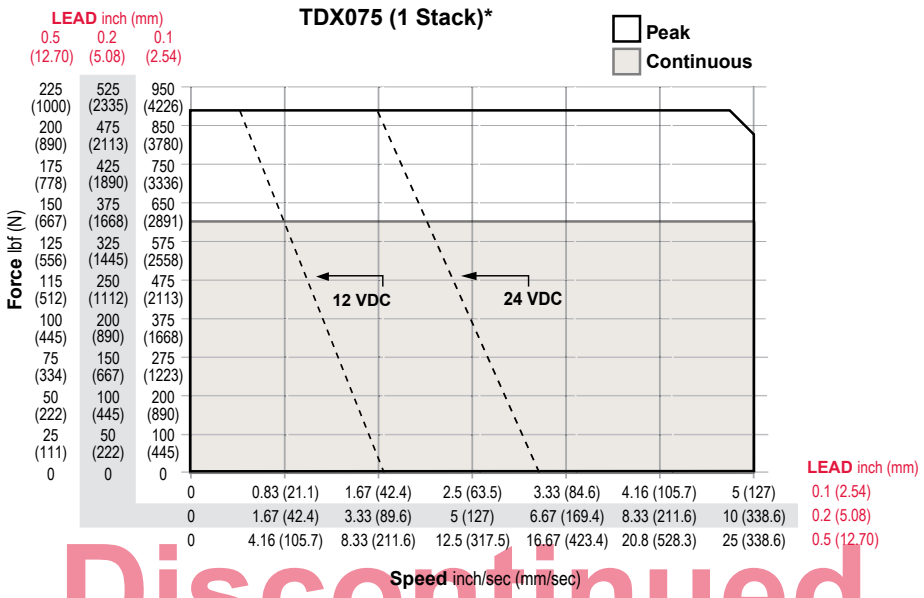








*Test data derived using NEMA recommended aluminum heatsink 10" x 10" x 3/8" at 40°C ambient.



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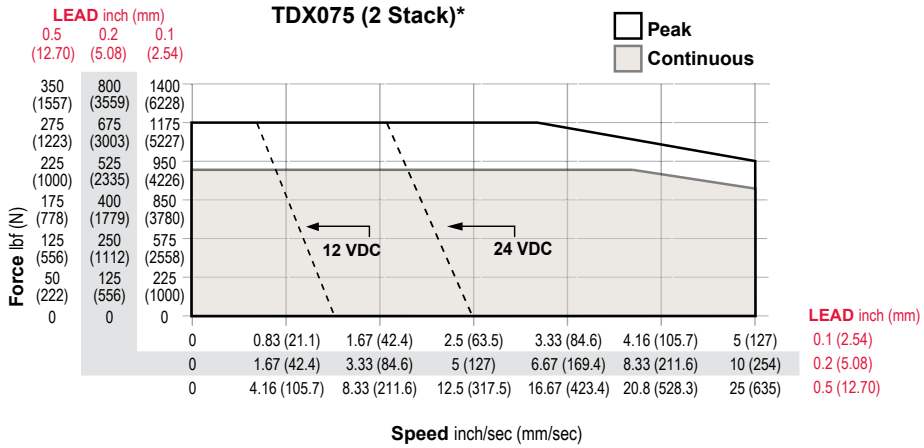
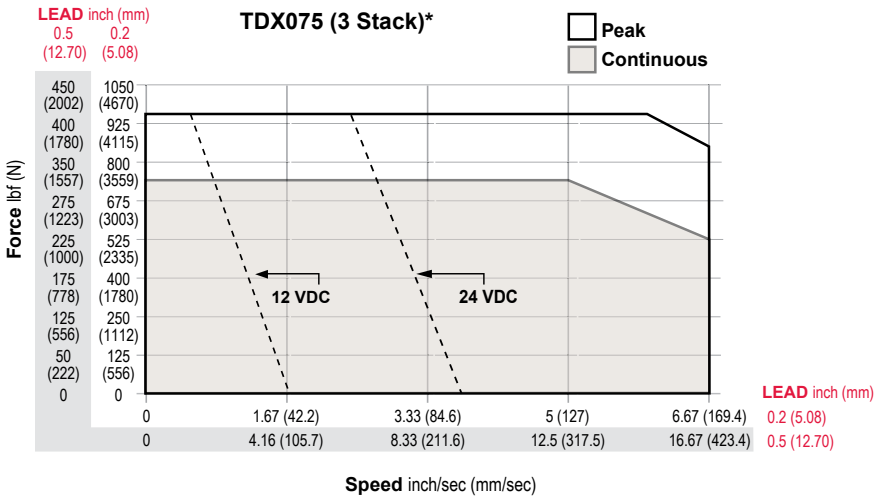




*Test data derived using NEMA recommended aluminum heatsink 10" x 10" x 3/8" at 40°C ambient.

Options

AR = External Anti-rotate Assembly

This option provides a rod and bushing to restrict the actuator rod from rotating when the load is not held by another method. Shorter actuators have single sided anti-rotation attachments. Longer lengths require attachments on both sides for proper operation. For AR dimensions, see page 79.

L1, L2, L3 = Adjustable External Travel Switches

This option allows up to 3 external switches to be included. These switches provide travel indication to the controller and are adjustable. See drawing on page 29. Must purchase external anti-rotate with this option.

RB = Rear Electric Brake

This option provides an internal holding brake. The brake is spring activated and electrically released.

PB = Protective Bellows

This option provides an accordion style protective bellows to protect the main actuator rod from damage due to abrasives or other contaminants in the environment in which the actuator must survive. The standard material of this bellows is S2 Neoprene Coated Nylon, Sewn Construction. This standard bellows is rated for environmental temperatures of -40 to 250 degrees F. Longer strokes may require the main rod of the actuator to be extended beyond standard length. Not available with extended tie rod mounting option. Please contact your local sales representative.

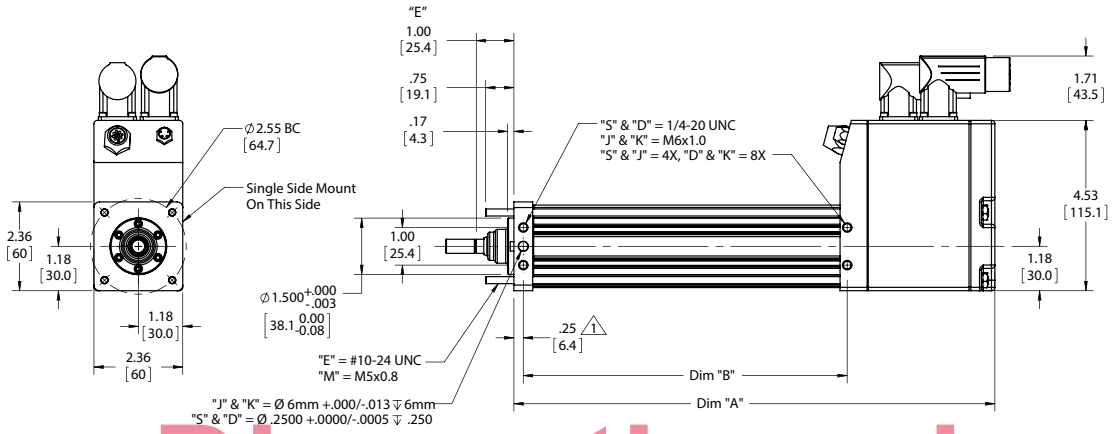
SR = Splined Main Rod

A ball spline shafting main rod with a ball spline nut that replaces the standard front seal and bushing assembly. This rod restricts rotation without the need for an external mechanism. The rod diameter will be the closest metric equivalent to our standard rod sizes. Since this option is NOT sealed, it is not suitable for environments in which contaminants may enter the actuator.

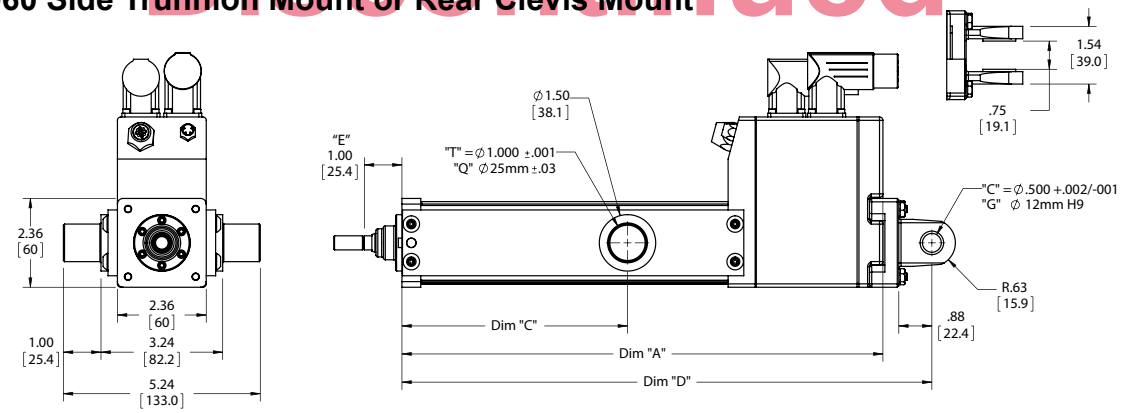
Note: Adding this option affects the overall length and mounting dimensions.

Dimensions

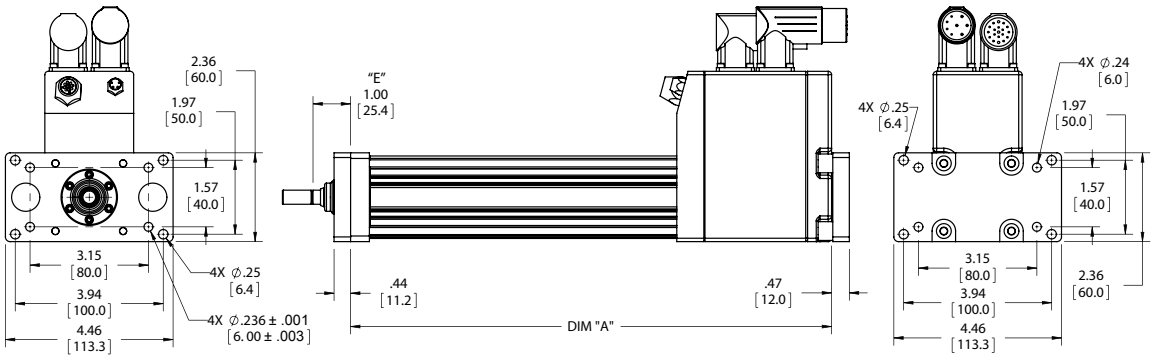
TDX060 Double Side Mount or Extended Tie Rod Mount



TDX060 Side Trunnion Mount or Rear Clevis Mount



TDX060 Front, Rear, or Front and Rear Flange Mount

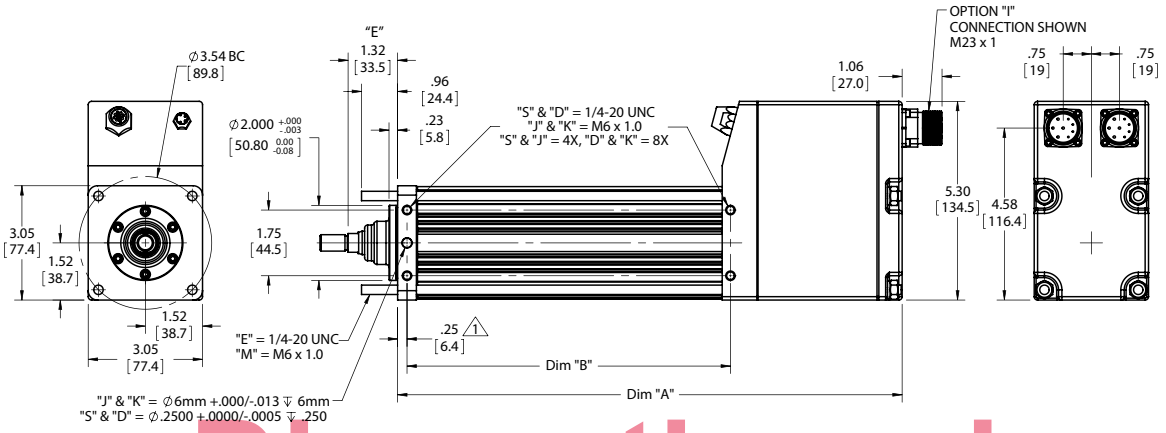


DIM	3 inch (75 mm) stroke in (mm)	6 inch (150 mm) stroke in (mm)	10 inch (250 mm) stroke in (mm)	12 inch (300 mm) stroke in (mm)
A	9.79 (248.7)	12.79 (324.9)	16.79 (426.5)	18.79 (477.3)
B	5.62 (142.8)	8.62 (218.9)	12.62 (320.6)	14.62 (371.4)
C	3.00 (76.2)	6.00 (152.4)	10.00 (254.0)	12.00 (304.8)
D	11.10 (281.9)	14.10 (358.1)	18.10 (459.7)	20.10 (510.5)

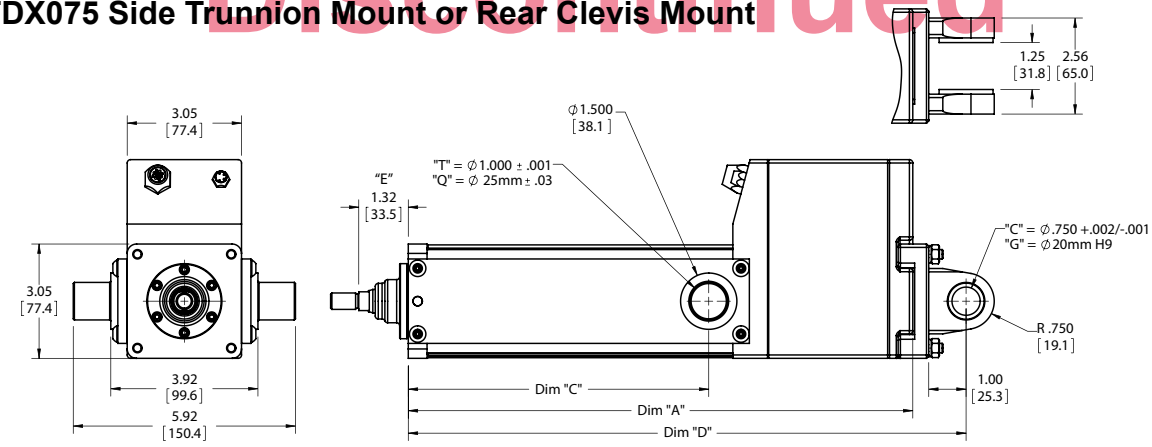
* Add 1.75 inches to dimensions "A", "B" and "D" if ordering a brake. Add .50 inches to dimensions "A", "C" and "D" and dimension if ordering a splined ⚠ main rod.
**Add 2 inches (50.8 mm) to "E" if ordering protective bellows.

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.

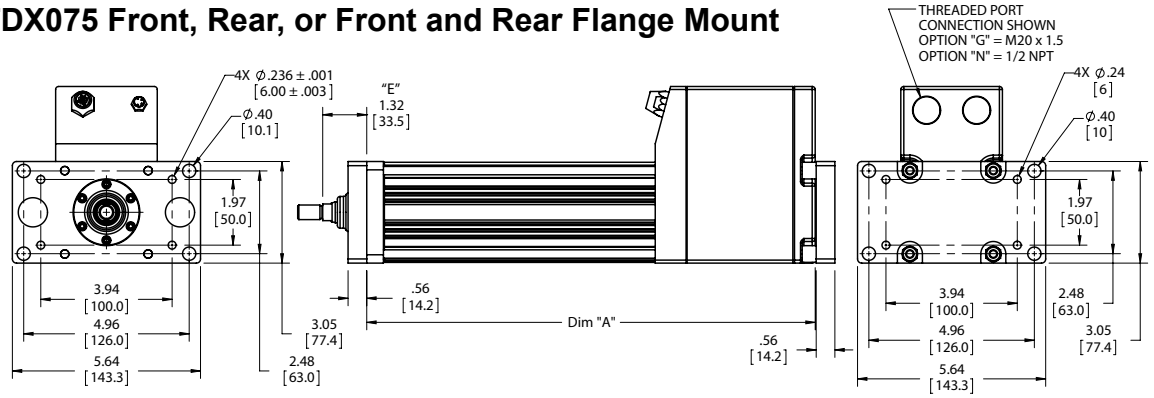
TDX075 Double Side Mount or Extended Tie Rod Mount



TDX075 Side Trunnion Mount or Rear Clevis Mount



TDX075 Front, Rear, or Front and Rear Flange Mount

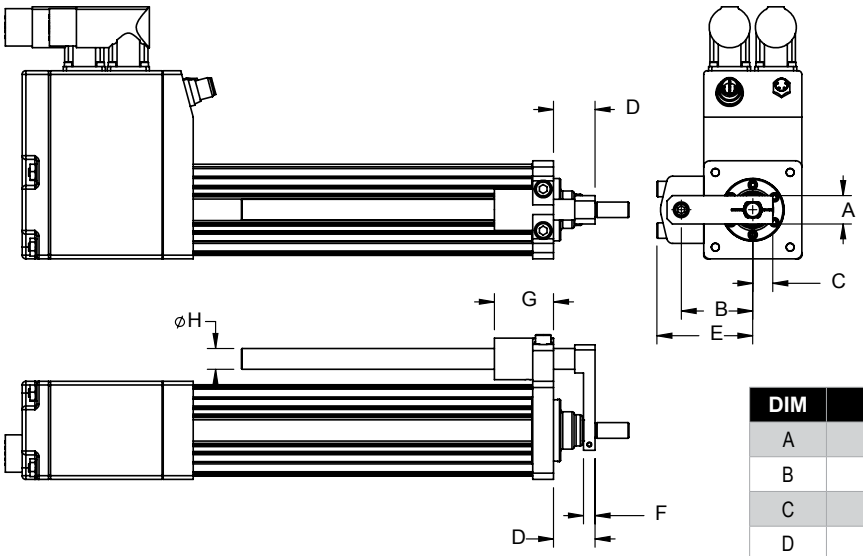


DIM	3 inch (75 mm) stroke in (mm)	6 inch (150 mm) stroke in (mm)	10 inch (250 mm) stroke in (mm)	12 inch (300 mm) stroke in (mm)	14 inch (350 mm) stroke in (mm)	18 inch (450 mm) stroke in (mm)
A	10.98 (278.9)	13.45 (341.6)	17.95 (455.9)	19.95 (506.7)	21.95 (557.5)	25.95 (659.1)
B	6.15 (156.2)	8.62 (218.9)	13.12 (333.2)	15.12 (384.0)	17.12 (434.8)	21.12 (536.4)
C	5.38 (136.7)	8.00 (203.2)	10.00 (254.0)	12.00 (304.8)	14.00 (355.6)	18.00 (457.2)
D	12.40 (315.0)	14.87 (377.7)	19.37 (492.0)	21.37 (542.8)	23.37 (593.6)	27.37 (695.2)

* Add 1.61 inches to dimensions “A”, “B” and “D” if ordering a brake. Add1.2 inches to dimensions “A”, “C” and “D” and dimension if ordering a splined ⚠ main rod.
**Add 2 inches (50.8 mm) to “E” if ordering protective bellows.

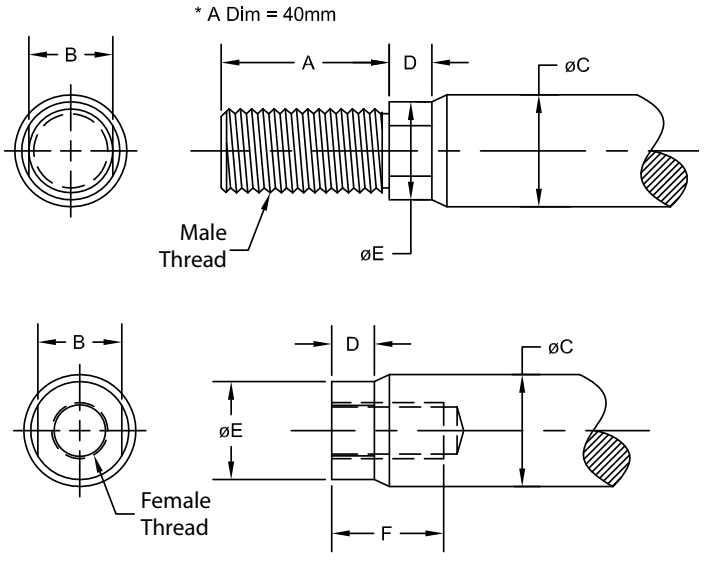
Pre-sale drawings and models are representative and are subject to change. Certified drawings and models are available for a fee. Consult your local Exlar representative for details.

Anti-Rotate Option



DIM	TDX060	TDX075
A	0.68 (17.3)	0.82 (20.9)
B	1.72 (43.7)	2.21 (56.1)
C	0.48 (12.2)	0.60 (15.2)
D	1.00 (25.4)	1.32 (33.5)
E	2.31 (58.7)	2.71 (68.8)
F	0.28 (7.1)	0.39 (9.9)
G	1.43 (36.3)	1.70 (43.2)
ØH	0.50 (12.7)	0.63 (15.9)

Actuator Rod End Option



DIM	TDX060	TDX075
A	0.813 (20.7)	0.750 (19.1)
B	0.375 (9.5)	0.500 (12.7)
ØC	0.500 (12.7)	0.625 (15.9)
D	0.200 (5.1)	0.281 (7.1)
ØE	0.440 (11.2)	0.562 (14.3)
F	0.750 (19.1)	0.750 (19.1)
Male–Inch	3/8-24 UNF-2A	7/16-20 UNF-2A
Male–Metric	M8 x 1-6g	M12 x 1.75-6g*
Female–Inch	5/16-24 UNF-2B	7/16-20 UNF-2B
Female–Metric	M8 x 1-6h	M10 x 1.5-6h

*When ordering the male M12x1.75 main rod for the TDM/X075 dimension "A" will be 1.57 in (40 mm)

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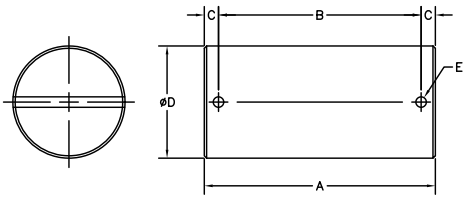
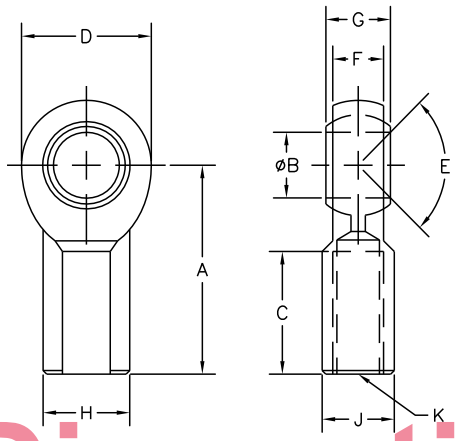
Clevis Pin



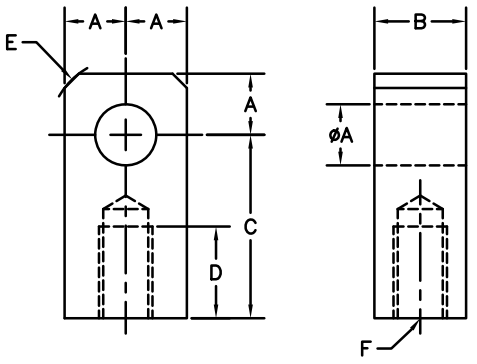
DIM	TDX060 CP050 in (mm) Rear Clevis, RE050 & RC050	TDX075 CP075 in (mm) Rear Clevis
A	2.28 (57.9)	3.09 (78.5)
B	1.94 (49.28)	2.72 (69.1)
C	0.17 (4.32)	1.19 (4.82)
ØD	0.50 (12.7) -0.001/-0.002	0.75 (19.1) -0.001/-0.002
ØE	0.095 (2.41)	0.14 (3.56)

Spherical Rod Eye



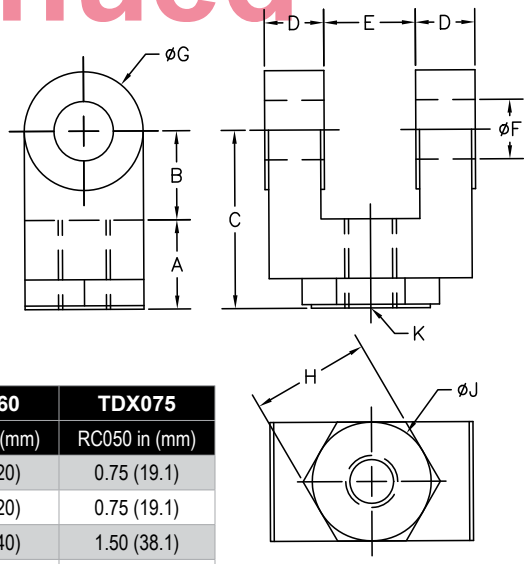
DIM	TDX060 SRM038 in (mm)	TDX075 SRM044 in (mm)
A	1.625 (41.3)	1.81 (46.0)
ØB	0.375 (9.525)	0.438 (11.13)
C	0.906 (23.0)	1.06 (26.9)
D	1.0 (25.6)	1.13 (28.7)
E	12 Deg	14 Deg
F	0.406 (10.3)	0.44 (11.1)
G	0.500 (12.7)	0.56 (14.2)
H	0.688 (17.7)	0.75 (19.1)
J	0.562 (14.3)	0.63 (16.0)
K	3/8-24	7/16-20

Rod Eye



DIM	TDX060 RE038 in (mm)	TDX075 RE050 in (mm)
ØA	0.50 (12.7)	0.50 (12.7)
B	0.560 (14.2)	0.75 (19.1)
C	1.000 (25.4)	1.50 (38.1)
D	0.500 (12.7)	0.75 (19.1)
E	0.25 x 45 (6.35)	0.63 (15.9)
F	3/8-24	7/16-20

Rod Clevis



DIM	TDX060 RC038 in (mm)	TDX075 RC050 in (mm)
A	0.787 (20)	0.75 (19.1)
B	0.787 (20)	0.75 (19.1)
C	1.574 (40)	1.50 (38.1)
D	0.183 (4.65)	0.50 (12.7)
E	0.375 (9.5)	0.765 (19.43)
ØF	0.375 (9.5)	0.50 (12.7)
ØG	0.75 (19.1)	1.00 (25.4)
H	N/A	1.00 (25.4)
ØJ	N/A	1.00 (25.4)
K	3/8-24	7/16-20

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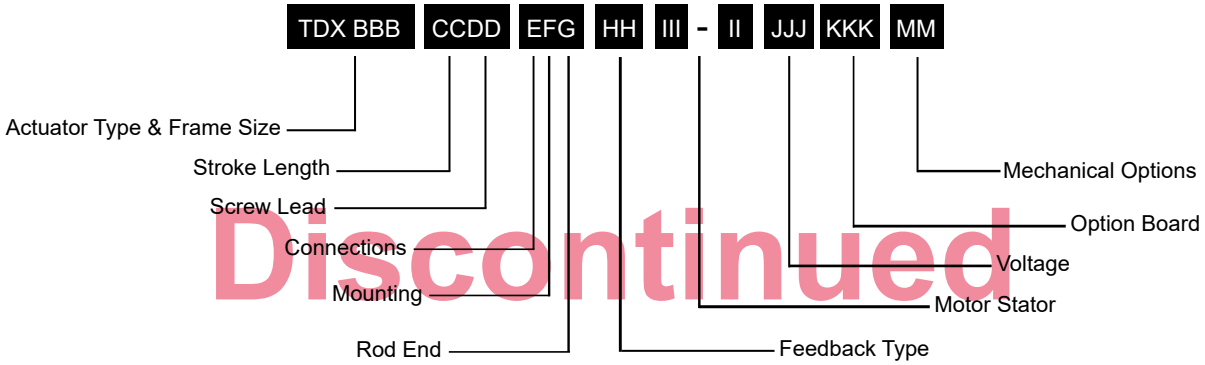
Ordering Information



Actuator Type
TDX = Tritex II Linear Actuator, high mechanical capacity

BBB = Actuator Frame Size
060 = 60 mm
075 = 75 mm

CC = Stroke Length
03 = 3 inch (76 mm)
06 = 6 inch (152 mm)
10 = 10 inch (254 mm)
12 = 12 inch (305 mm)
18 = 18 inch (457 mm) (75 mm only)

DD = Screw Lead (linear travel per screw revolution)
01 = 0.1 inch (2.54 mm)
02 = 0.2 inch (5.08 mm)
04 = 0.4 inch (10.16 mm) (60 mm only)
05 = 0.5 inch (12.7 mm) (75 mm only)

E = Connections
G = Standard Straight Threaded Port with internal terminals, M20x1.5 (75 mm only)
N = NPT Threaded Port via Adapter with Internal Terminals, 1/2" NPT (75 mm only)
I = Intercontec Style - Exlar standard, M23 Style Connector

F = Mounting
C = Rear Clevis
G = Metric Rear Clevis
D = Double Side Mount
K = Metric Double Side Mount
E = Extended Tie Rod
M = Metric Extended Tie Rod
F = Front Flange
R = Rear Flange
T = Side Trunnion
Q = Metric Side Trunnion

G = Rod End
M = Male US Standard Thread [1]
A = Male Metric Thread [1]
F = Female US Standard Thread [1]
B = Female Metric Thread [1]

HH = Feedback Type
HD = Analog Hall Device
IE = Incremental Encoder, 8192 count resolution
AF = Absolute Feedback [9]

III-II = Motor Stator, All 8 Pole
TDX060 Stator Specifications
1B8-50 = 1 Stack, 48 VDC, 5000 rpm
2B8-50 = 2 Stack, 48 VDC, 5000 rpm
3B8-40 = 3 Stack, 48 VDC. 4000 rpm [2]

TDX075 Stator Specifications
1B8-30 = 1 Stack, 48 VDC, 3000 rpm
2B8-30 = 2 Stack, 48 VDC, 3000 rpm
3B8-20 = 3 Stack, 48 VDC, 2000 rpm [2]

JJJ = Voltage
048 = 12-48 VDC

KKK = Option Board
SIO = Standard IO Interconnect
IA4 = 4-20 mA Analog I/O
EIP = SIO plus Ethernet/IP with M12 connector
EIN = SIO plus Ethernet/IP without M12 connector [7]
PIO = SIO plus Profinet IO with M12 connector
PIN = SIO plus Profinet IO without M12 connector [7]
TCP = SIO plus Modbus TCP with M12 connector
TCN = SIO plus Modbus TCP without M12 connector [9]

MM = Mechanical Options [3]
AR = External Anti-rotate
L1/2/3 = External Limit Switches [4]
RB = Rear Brake
PB = Protective Bellows [6]
SR = Splined Main Rod [5, 8]

For options or specials not listed above or for extended temperature operation, please contact Exlar

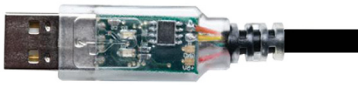
NOTES:
1. Chrome-plated carbon steel. Threads not chrome-plated.
2. Not available on 0.1 inch lead.
3. For extended temperature operation consult factory for model number.
4. Limit switch option requires AR option.
5. This option is not sealed and is not suitable for any environment in which contaminants come in contact with actuator and may enter the actuator.
6. Not available with extended tie rod mounting option.
7. Requires customer supplied Ethernet cable through I/O port for Class 1 Division 2 compliance only.
8. Consult Exlar if ordering splined stainless steel main rod.
9. When ordering a TDM, RDM or RDG 60 mm or other sizes with top mounted connectors the battery backup for AF feedback must be mounted externally. A DIN rail mounted board (Exlar PN 48224) and battery (PN T2BAT2) are supplied.

Cables and Accessories

Tritex II DC Series Cable & Accessories	Part No.
Communications Accessories - Tritex uses a 4 pin M8 RS485 communications connector	
Recommended PC to Tritex communications cable-USB/RS485 to M8 connector - xxx = Length in feet, 006 or 015 only	CBL-T2USB485-M8-xxx
Multi-Drop RS485 Accessories	
RS485 splitter - M8 Pin plug to double M8 Socket receptacle	TT485SP
Multidrop Communications Cable M8 to M8 for use with TT485SP/RS485 splitter - xxx = Length in feet, 006 or 015 only	CBL-TTDAS-xxx
“G” Connection Accessories (N/A for 60 mm)	
Nickel plated cable gland- M20 x 1.5 - CE shielding- 2 required	GLD-T2M20 x 1.5
Power cable prepared on one end for use with GLD-T2M20 x 1.5 xxx = Length in ft, Standard lengths 015, 025, 050, 075, 100	CBL-TDIPC-RAW-xxx
I/O cable prepared on one end for use with GLD-T2M20 x 1.5 xxx = Length in ft, Standard lengths 015, 025, 050, 075, 100	CBL-T2IOC-RAW-xxx
“N” Connection Accessories (N/A for 60 mm)	
M20 x 1.5 to 1/2" NPT threaded hole adapter for use with conduit	ADAPT-M20-NPT1/2
“I” Connection	
Power cable with M23 8 pin xxx = Length in feet, std lengths 015, 025, 050, 075, 100	CBL-TTIPC-SMI-xxx
I/O cable with M23 19 pin xxx = Length in feet, std lengths 015, 025, 050, 075, 100	CBL-TTIOC-SMI-xxx
Multi-Purpose Communications Accessories for long runs, requires terminal block interconnections	
USB to RS485 convertor/cable - USB to RS485 flying leads - xxx = Length in feet, 006 or 015 only	CBL-T2USB485-xxx
Communications cable M8 to flying leads cable xxx = Length in feet, standard lengths 015, 025, 050, 075, 100	CBL-TTCOM-xxx
Option Board Cables and Accessories	
EIP, PIO and TCP option Ethernet cable - M12 to RJ45 cable xxx = Length in feet, standard lengths 015, 025, 050, 075, 100.	CBL-T2ETH-R45-xxx
Electrical Accessories	
Shunt resistor used for Dynamic Braking	TTSR1
Replacement -AF Battery - 75 mm frame only used for absolute feedback option	54108
Replacement -External Battery, Absolute Feedback option only (60mm frame)	T2BAT2
Replacement -AF Battery Board, T2BAT2 not included, DIN Rail mounted, Absolute Feedback option only (60mm frame)	48224
Surge Filter DIN rail mounted	TDCESF1
Replacement Normally Closed External Limit Switch (Turck Part No. BIM-UNT-RP6X)	43404
Replacement Normally Open External Limit Switch (Turck Part No. BIM-UNT-AP6X)	43403
Mechanical Accessories	
Clevis Pin for TDX060 Rod Clevis & Rear Clevis	CP050*
Clevis Pin for TDX075 Rear Clevis	CP075
Spherical Rod Eye for TDX060 male “M” rod end 3/8-24 thread	SRM038
Spherical Rod Eye for TDX075 male “M” rod end 7/16-20 thread	SRM044
Rod Eye for TDX075 male “M” rod end 7/16-20 thread	RE050
Rod Clevis for TDX060 male “M” rod end 3/8-24 thread	RC038
Rod Clevis for TDX075 male “M” rod end 7/16-20 thread	RC050
Jam Nut for TDX060 male rod end, 3/8-24	JAM3/8-24-SS
Jam Nut for TDX075 male rod end, 7/16-20	JAM7/16-20-SS

*Also available for TDX075 with RC050, RE050

CBL-T2USB485-M8-xxx
Our recommended communications cable. No special drivers or setup required for use with MS Windows™.



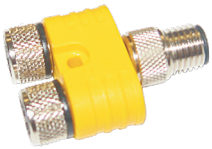
CBL-T2USB485-xxx
Use for terminal connections with CBL-TTCOM for long cable runs. No special drivers or setup required for use with MS Windows™.

CBL-TTIOC-SMI-xxx

CBL-TTIPC-SMI-xxx

CBL-TTCOM-xxx
Use with CBL-T2USB485-xxx for long cable runs.

CBL-TTDAS-xxx
For use with TT485SP for multi-drop applications.



TT485SP
RS485 communications splitter. Use to daisy-chain multiple Tritex actuators.

TDCESF1
Surge filter designed for use on Tritex 48 VDC rotary and linear actuators provides EFT/B and surge disturbance immunity to IEC/EN 61800-3:2004-08 Second Environment (industrial) levels. Electrical Fast Transient/Burst (EET/B) and surge disturbances are caused by a number of events including switching inductive loads, relay contact bounce, power system switching activity or faults, nearby lightning strikes, etc.

Discontinued

Warranty and Limitations of Liability

WARRANTY AND LIMITATION OF LIABILITY: Please see our warranty on our website here: *https://www.cw-actuation.com/en-gb/about/terms-conditions* for details.

USA & CANADA
Exlar
18400 West 77th Street
Chanhassen, MN 55317
Phone: 855-620-6200 (US & Canada)
Fax: 952-368-4877

www.exlar.com

Exlar® actuators are a brand of Curtiss-Wright

PN23939