

A-Track | Features

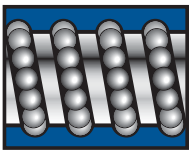
General Duty Actuators

Key Features

- Totally sealed
- Long life motors
- Easy to use and install
- Best value in its class

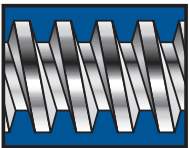
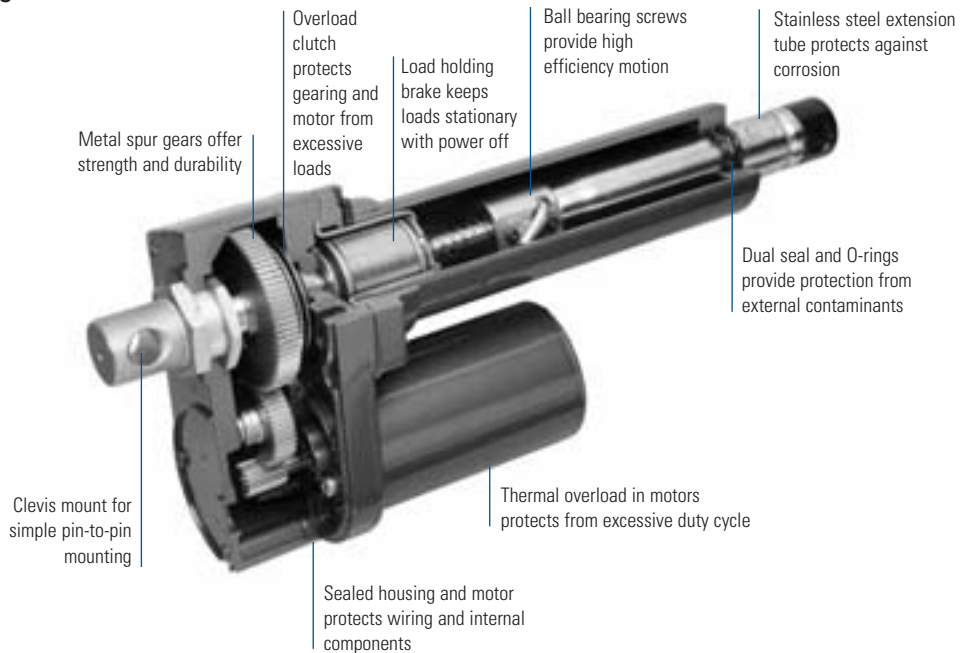
Standard Models

A-Track 2, A-Track 5,
A-Track 10



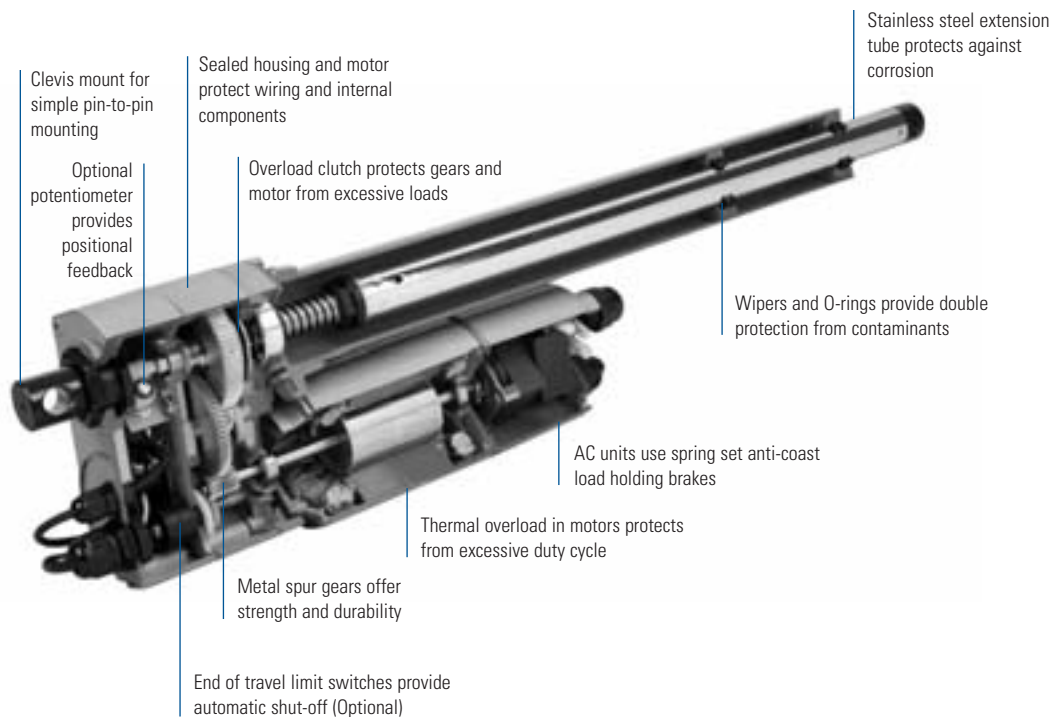
Ball Screw Driven Actuators...

designed for industrial and commercial applications requiring high load capacities.



Acme Screw Driven Actuators...

designed for light to moderate duty applications.



How To Select

Step 1 – Determine Load and Stroke length requirements

Use the Quick Selection guide to identify the model family that will provide the load capacity and stroke length needed for your application.

Step 2 – Identify motor type and voltage

Select AC or DC motor and motor voltage.

Step 3 – Confirm Speed and Current draw requirements

Using the charts provided with each model family, confirm that unit speed and current draw is appropriate for the system design.

Step 4 – Confirm the application Duty Cycle

At full load capacity, actuators have a 25% duty cycle. Duty cycle is the amount of 'on-time' compared to cooling time. A unit that runs for 15 seconds should be off for 45 seconds.

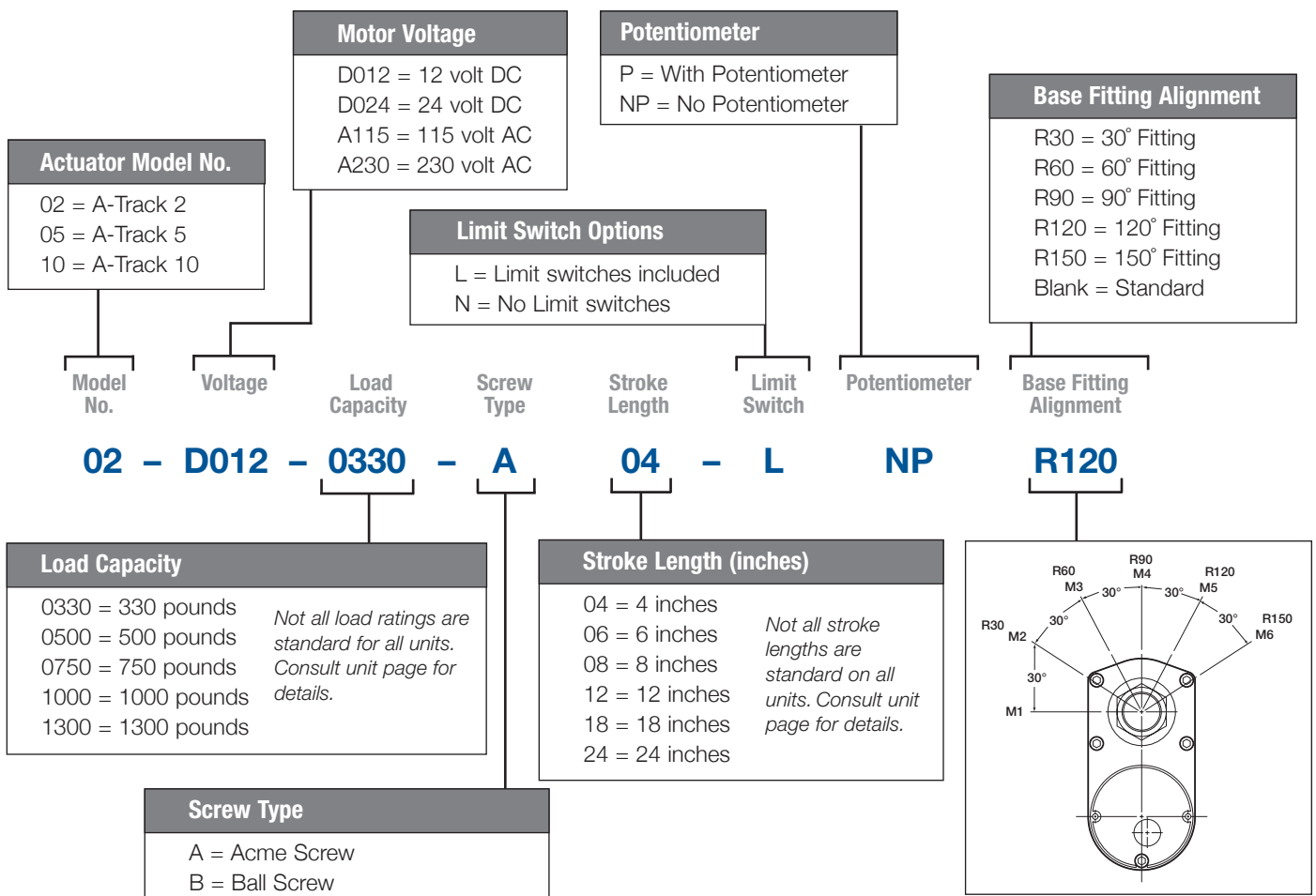
Important Unit Restrictions

Side loading and shock loads must be considered in actuator applications. Side loading and cantilevered mounting should be eliminated through proper machine design. Side loading will dramatically reduce unit life. While actuators can withstand limited shock loads, it is recommended that shock loading be avoided wherever possible. (See page 35)

Step 5 – Unit Options

A-Track units include end-of-travel limit switches as an optional feature. *For positional feedback, a 10K ohm potentiometer can be factory installed. The changing potentiometer value can provide unit movement feedback for units that are not visible to the machine operator.

**Limit switches are only available in the maximum load configuration for each model.*



A-Track | 2

DC Motor Acme Screw

Up to 500 lbs. Rated Load

Up to 1.0 in./sec. Travel Speed



Features

- Sealed and gasketed for mobile or outdoor applications
- Overload clutch standard
- 4, 6, 8, 12, 18 and 24 inch stroke lengths
- 12 or 24 volt DC motors
- Acme screw drive
- Thermal overload included in double ball bearing motor.

Typical Applications

- Gate and valve positioning
- Tailgate lifts
- Mobile equipment spout positioning control

General Purpose DC Actuator

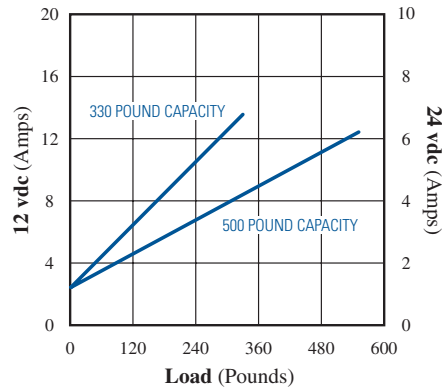
The A-Track 2 incorporates an Acme screw drive system that provides a value priced unit for moderate duty applications. The A-Track 2 includes lubrication for the life of the unit, combined with robust seal and O-ring design, creating a maintenance free design, even when used in applications with high humidity or dust.

Specifications

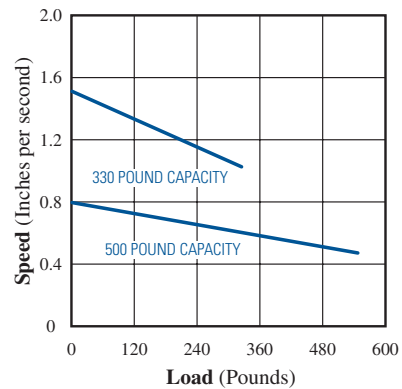
Load Capacity	330 pounds	500 pounds
Speed at Full Load	1.0 in/sec	0.50 in/sec
Input Voltage	12 or 24 volt for all models	
Static Load Capacity	1000 pounds for all models	
Stroke Length	4, 6, 8, 12, 18 and 24 inches for all models	
Clevis Ends	13 mm diameter	
Duty Cycle	25% for all models	
Operation Temperature Range	-15° F to +150° F for all models	
Limit Switch	Optional adjustable travel limit switches (20:1 only) (500 lb.)	
Potentiometer	Optional feedback potentiometer	
Restraining Torque	100 inch pounds	
Thermal Overload	Thermal overload included in all motors	

Performance Curves

Current vs Load



Speed vs Load



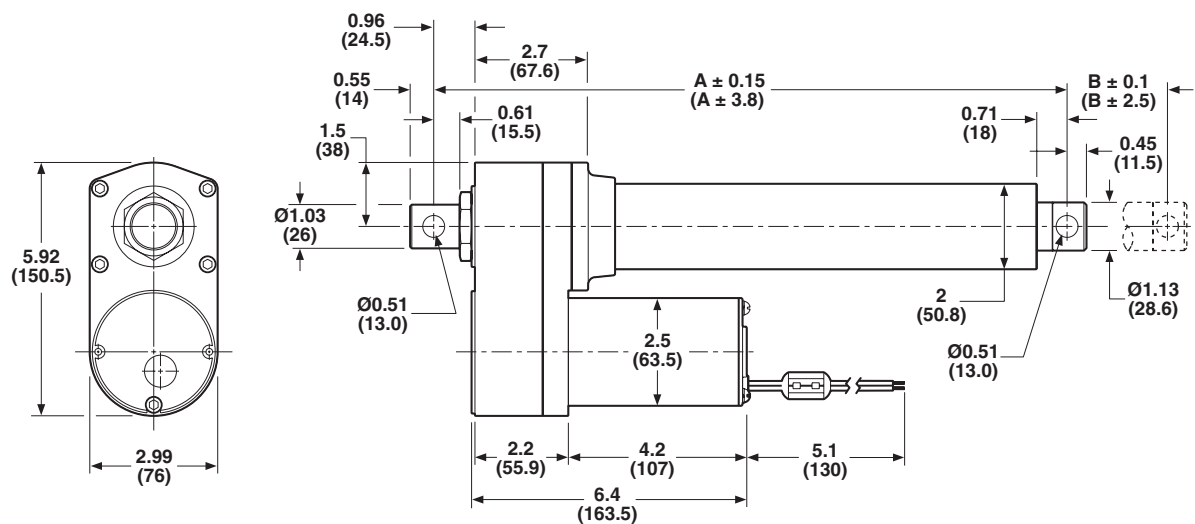
Dimensions

With Limit Switches

A-Track 2	Stroke	4		6		8		12		18		24	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
	A	13.31	338	15.31	389	17.13	435	21.26	540	30.39	772	36.38	924
	B	4.01	102	6.02	153	7.99	203	12.0	305	17.99	457	24.01	610

Without Limit Switches

A-Track 2	Stroke	4		6		8		12		18		24	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
	A	10.3	262	12.32	313	14.33	364	18.31	465	27.40	696	33.39	848
	B	4.01	102	6.02	153	7.99	203	12.00	305	17.99	457	24.01	610



A-Track | 5

AC Motor Acme Screw

Up to 500 lbs. Rated Load

Up to 0.98 in./sec. Travel Speed



Features

- Acme screw drive system
- 115 volt AC (60hz) and 230 volt AC (50hz) motors available
- 4, 6, 8, 12, 18 and 24 inch strokes
- Acme screw drive train
- Overload clutch standard
- Lubricated for life
- Capacitor included with motor

Typical Applications

- Ergonomic lift tables
- Conveyor diverters
- Bin/tank cover lifts
- Roof vents

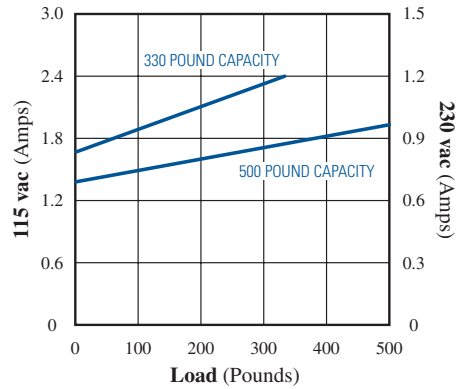
The A-Track 5 Acme screw actuator is a general purpose AC actuator with load capacities of 330 and 500 pounds for use in moderate duty interior applications. The unit includes a power off motor stopping brake for faster stops and extra load holding capability. The Model 5 allows for stroke lengths of 4 to 24 inches for in-plant or protected applications.

Specifications

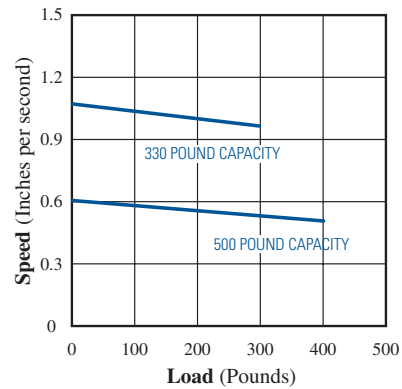
Load Capacity	330 pounds	500 pounds
Speed at Full Load	0.98 in/sec	0.55 in/sec
Input Voltage	115 vac (60hz) and 230 vac (50hz) for both models	
Static Load Capacity	1000 pounds for all models	
Stroke Length	4, 6, 8, 12, 18 and 24 inches for all models	
Clevis Ends	13 mm diameter	
Duty Cycle	25% for all models	
Operation Temperature Range	-15° F to +150° F for all models	
Limit Switch	Optional adjustable travel limit switches (20:1 only) (500 lb.)	
Potentiometer	Optional feedback potentiometer	
Restraining Torque	100 inch pounds	
Thermal Overload	Thermal overload included in all motors	

Performance Curves

Current vs Load



Speed vs Load



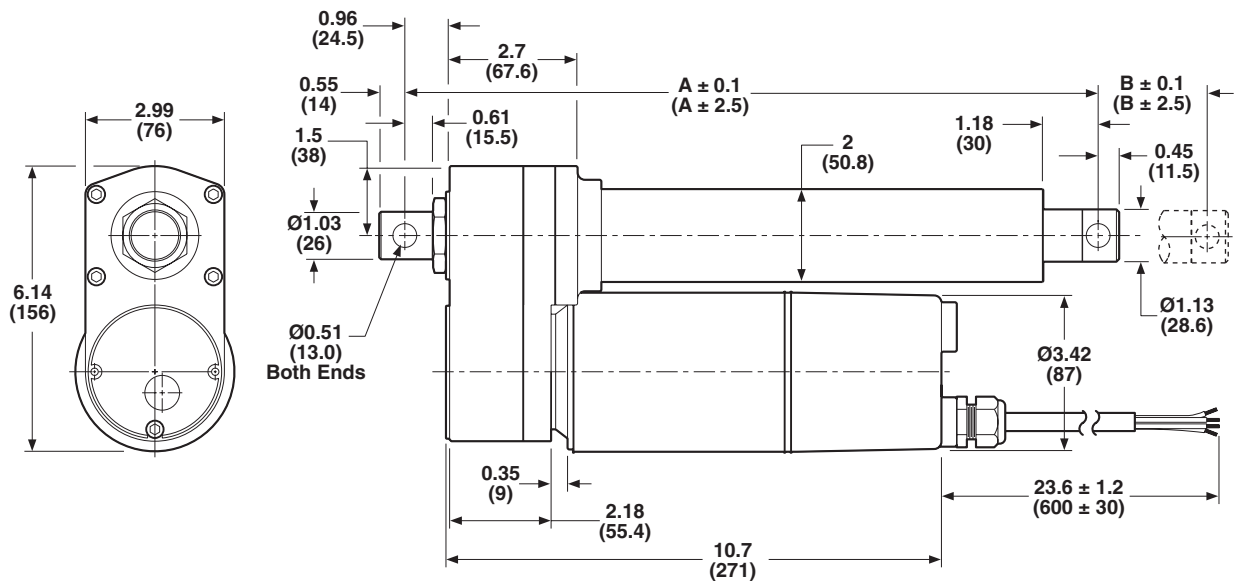
Dimensions

With Limit Switches

A-Track 5 Acme	Stroke	4		6		8		12		18		24	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A		17.95	456	19.92	506	21.89	556	25.91	658	31.89	810	37.87	962
B		4.01	102	6.02	153	7.99	203	12.00	305	17.99	457	24.01	610

Without Limit Switches

A-Track 5 Acme	Stroke	4		6		8		12		18		24	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
A		14.96	380	16.97	431	18.94	481	22.95	583	28.94	735	34.92	887
B		4.01	102	6.02	153	7.99	203	12.00	305	17.99	457	24.01	610



A-Track | 5

AC Motor Ball Screw

Up to 1300 lbs. Rated Load

Up to 1.89 in./sec. Travel Speed



Features

- Ball bearing screw drive system
- Anti-coast load holding brake
- 4–24 inch stroke length capability
- Load limiting clutch standard
- Thermal overload protection in the motor
- Capacitor included in motor

Typical Applications

- Ergonomic lift tables
- Conveyor diverters
- Bin or tank cover lifts
- Die transfer carts

The A-Track 5 Ball Screw is a ball screw drive linear actuator for industrial and commercial applications. The unit provides load capacity up to 1300 pounds with either 115 volt or 230 volt AC motors. This unit includes a power off load holding brake which stops the motor from turning when power is off. The Model 5 allows for stroke lengths of 4 to 24 inches for in-plant or protected applications.

Specifications

Load Capacity	500 pounds	1000 pounds	1300 pounds
Speed at Full Load	1.89 in/sec	0.98 in/sec	0.47 in/sec
Input Voltage	115 vac (60hz) / 230 vac (50hz)		
Static Load Capacity	3050 pounds for all models		
Stroke Length	4, 6, 8, 12, 18 and 24 inches		
Clevis Ends	13 mm diameter		
Duty Cycle	25% for all models		
Operation Temperature Range	-15° F to +150° F for all models		
Limit Switch	Optional (20:1 only) (1300 lbs.)		
Potentiometer	Optional for all models		
Restraining Torque	100 in. lbs.		
Thermal Overload	Overload clutch and motor thermal overload		

A-Track | 10

DC Motor Ball Screw

Up to 1300 lbs. Rated Load

Up to 1.35 in./sec. Travel Speed



Features

- Efficient ball screw drive system
- Load holding brake standard
- Overload clutch standard
- 4 to 24 inch stroke lengths
- Thermal overload incorporated into the motor

Typical Applications

- Heavy duty platform lifts
- Deck and implement lifts for tractors and mobile applications
- Wheelchair and scooter lifts
- Bin and tank cover lifts

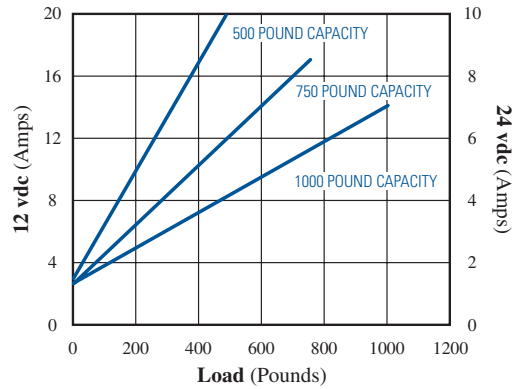
The A-Track 10 actuator is a DC motor driven, ball screw design suitable for applications requiring high load capacity. The A-Track 10 incorporates seals and O-rings to provide protection when used in outdoor, mobile or ambient contamination environments. This unit includes an integral load holding brake to provide stationary load holding while still providing the efficiency of a ball screw design actuator. The Model 10 provides load capacities up to 1300 pounds with stroke lengths to 24 inches.

Specifications

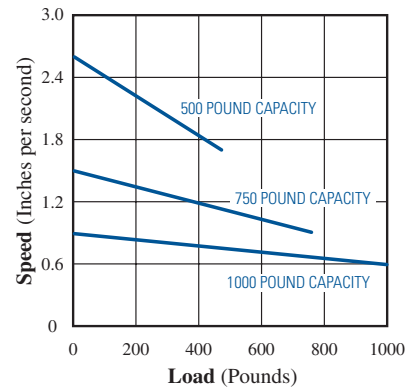
Load Capacity	500 pounds	750 pounds	1300 pounds
Speed at Full Load	1.35 in/sec	0.85 in/sec	0.51 in/sec
Input Voltage	12 or 24 volt DC for all models		
Static Load Capacity	3000 pounds for all models		
Stroke Length	4, 6, 8, 12, 18 and 24 inches for all models		
Clevis Ends	.51 in. / 13mm		
Duty Cycle	25%		
Operation Temperature Range	-15° F to +150° F for all models		
Limit Switch	Optional for all models (20:1 only) (1000 lbs.)		
Potentiometer	Optional for all models		
Restraining Torque	100 in. lbs.		
Thermal Overload	Overload clutch and motor thermal overload for all models		

Performance Curves

Current vs Load



Speed vs Load



Dimensions

With Limit Switches

A-Track 10	Stroke	4		6		8		12		18		24	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
	A	14.88	378	16.89	429	18.86	479	22.83	580	31.89	810	37.87	962
	B	3.86	98	5.90	150	7.91	201	11.89	302	17.99	457	24.01	610

Without Limit Switches

A-Track 10	Stroke	4		6		8		12		18		24	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
	A	11.89	302	13.90	353	15.90	404	19.88	505	28.94	735	34.92	887
	B	3.86	98	5.90	150	7.91	201	11.89	302	17.99	457	24.01	610

