Warner Linear...
Customer Focused, Quality Driven

Quality Processes
Our quality starts in product design. It is demonstrated in the attention given to design details and the refinement of prototypes. It is apparent in our fast response to requests for quotes, and our strict adherence to deadlines in every stage of the work flow.

Service to Our Customers
Our knowledgeable staff is involved on a daily basis in customer communications, team based problem solving, and continuous improvement. We are sensitive to satisfying specific customer requirements and expectations.

Custom Solutions
We recognize how critical our actuators are to the overall performance of your equipment. Working closely with your engineering staff, we strive for an early understanding of how you want your linear actuator to perform.

Building a direct communication line from our engineer to your engineer provides a number of significant benefits.

• A teaming of creative resources.
• Joint understanding of our actuator capabilities and how they can be tailored to your application.
• An understanding of the lowest cost solution to meet your actuator requirements.
• Providing a complete solution that includes controls as required.

Design and Testing
Our application engineers and design specialists work closely with our customers to define both lab and field testing requirements. Our solid model design capabilities, computer assisted testing, and manufacturing floor pre-shipment cycle test, all provide assurance that your Warner Linear actuators will meet or exceed your expectations.

Our linear actuator testing capabilities include dual load life cycling stands, low and high pressure wash down test tanks, lift test stands and thermal shock submersion. Our test service providers add material analysis, noise and vibration evaluation capabilities.

Visit www.warnerlinear.com for more information, including a full line catalog available as a pdf download in the literature portal.
Selecting the right product for your application is fast and easy with these useful features...

- Utilize specification filters to instantly narrow your search
- Compare specifications for multiple models (side-by-side)
- View individual specification pages for additional information
- View 3D models
- Download CAD drawings in various formats
- Submit a RFQ
- View your cart to check part selections
- Search for a specific part number
- Data provided in both Imperial and Metric
- Easy access literature link

Refine your search criteria with specification filters including:
- Gear Ratio
- Motor Voltage
- Motor Type
- Nut Type
- Stroke Length
- Base Fitting Alignment
How To Select

Step 1 – Determine load and stroke length requirements
Use the Quick Selection guide to identify the model that will provide the load capacity and stroke length needed for your application.

Step 2 – Identify motor type and voltage
Select DC motor and motor voltage.

Step 3 – Confirm speed and current draw requirements
Using the charts provided, confirm that unit speed and current draw are appropriate for the intended use.

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.

M-Track Configurator

<table>
<thead>
<tr>
<th>M1</th>
<th>D012</th>
<th>0050</th>
<th>A</th>
<th>O2</th>
<th>L</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuator Model No.</td>
<td>1</td>
<td>M-Track 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor Voltage Options</td>
<td>D012 – 12 volt DC</td>
<td>D024 – 24 volt DC</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screw Type</td>
<td>A – Acme Screw</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stroke Length</td>
<td>01 – 1 in. (25 mm)</td>
<td>02 – 2 in. (50 mm)</td>
<td>04 – 4 in. (100 mm)</td>
<td>06 – 6 in. (150 mm)</td>
<td>08 – 8 in. (200 mm)</td>
<td>10 – 10 in. (254 mm)</td>
</tr>
<tr>
<td>Potentiometer</td>
<td>P – With Potentiometer</td>
<td>N – No Potentiometer</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Note</td>
<td>Not all load ratings are standard for all units. Consult unit page for details.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

S-Track Configurator

<table>
<thead>
<tr>
<th>S1</th>
<th>P1</th>
<th>G11</th>
<th>DN</th>
<th>08</th>
<th>– 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuator Model No.</td>
<td>S1 – Aluminum Housing</td>
<td>P1 – Basic Control, No Outputs</td>
<td>G11 – 12V – 24V</td>
<td>DN – 08</td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>12V – 24V</td>
<td>Stroke Length</td>
<td>02 in. (50 mm)</td>
<td>04 in. (100 mm)</td>
<td>06 in. (150 mm)</td>
</tr>
<tr>
<td>Output/Limit Switch</td>
<td>P0 – Basic Control, No Outputs</td>
<td>P1 – S-Track Basic Control, POT output and Limit Switches</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gear Ratio</td>
<td>607 1°</td>
<td>44</td>
<td>.375 – 8 screw</td>
<td>411 .75°</td>
<td>44</td>
</tr>
<tr>
<td>End Fitting</td>
<td>Blank – STD</td>
<td>90° – 90</td>
<td>IP-Rating</td>
<td>Blank – IP 50</td>
<td>1 – IP 65/IP69K</td>
</tr>
</tbody>
</table>

For Protective Boot
Consult factory for ordering details.

For Protective Boot
Consult factory for ordering details.

Light Duty

M-Track 1
Compact, completely self-contained and sealed to allow for use in small spaces without sacrificing power or capability.

Drive Type: Acme Screw

Load Capacity & Speed
lbs. @ in./sec. (N@mm/sec)
25 @ 1.75 (111@45) 50 @ 0.80 (222@20) 100 @ 0.45 (445@11)
165 @ 0.25 (734@6)

Stand. Stroke Length
in. (mm)
2, 4, 6, 8, 10, 12
(50, 100, 150, 200, 254, 300)

Input Voltage (VDC):
12, 24

General Duty

S-Track
Intended for general duty applications with need for controllability and quieter operation.

Drive Type: Acme Screw

Load Capacity & Speed
lbs. @ in./sec. (N@mm/sec)
125 @ 1.0 (556@25) 175 @ 0.75 (778@18)
225 @ 0.62 (1001@15) 300 @ 0.33 (1334@8)
400 @ 0.25 (1779@6)

Stand. Stroke Length
in. (mm)
2, 4, 6, 8, 10, 12
(50, 100, 150, 200, 254, 300)

Input Voltage (VDC):
12, 24

For Protective Boot
Consult factory for ordering details.
**B-Track K2**

Uses a patented in-line load transfer offering high load capability in a small package size. Bronze or Delrin® nut options available for high impact load applications (up to 1,500 lbs.).

**Drive Type:** Hybrid Acme

**Load Capacity & Speed**

<table>
<thead>
<tr>
<th>lbs. @ in./sec.</th>
<th>N@mm/sec</th>
</tr>
</thead>
<tbody>
<tr>
<td>300 @ 2.0</td>
<td>1334 @ 50</td>
</tr>
<tr>
<td>600 @ 1.0</td>
<td>2669 @ 25</td>
</tr>
<tr>
<td>1200 @ 0.5</td>
<td>5338 @ 12</td>
</tr>
<tr>
<td>1500 @ 0.35</td>
<td>6672 @ 9</td>
</tr>
</tbody>
</table>

**Stand. Stroke Length**

in. (mm)

4 to 24 in 2" increments

100 to 600 in 50 mm increments)

**Input Voltage (VAC):**

115, 230

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**B-Track K2x**

Completely sealed, designed for tough, high load applications. Able to perform in harsh environments providing years of trouble-free service.

**Drive Type:** Ball Screw & Ball Nut

**Load Capacity & Speed**

<table>
<thead>
<tr>
<th>lbs. @ in./sec.</th>
<th>N@mm/sec</th>
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</thead>
<tbody>
<tr>
<td>600 @ 2.0</td>
<td>2669 @ 50</td>
</tr>
<tr>
<td>1200 @ 1.0</td>
<td>5338 @ 25</td>
</tr>
<tr>
<td>2200 @ 0.5</td>
<td>9786 @ 12</td>
</tr>
<tr>
<td>2800 @ 0.25</td>
<td>12455 @ 6</td>
</tr>
</tbody>
</table>

**Stand. Stroke Length**

in. (mm)

2 to 24 in 2" increments

50 to 600 in 50 mm increments)

**Input Voltage (VDC):**

12, 24, 48, 90

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**B-Track K2 (AC version)**

Uses a patented in-line load transfer offering high load capability in a small package size. Bronze or Delrin® nut options available for high impact load applications (up to 1,500 lbs.).

**Drive Type:** Hybrid Acme

**Load Capacity & Speed**

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<thead>
<tr>
<th>lbs. @ in./sec.</th>
<th>N@mm/sec</th>
</tr>
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<tbody>
<tr>
<td>500 @ 1.0</td>
<td>2224 @ 25</td>
</tr>
<tr>
<td>750 @ 0.50</td>
<td>3336 @ 12</td>
</tr>
<tr>
<td>1100 @ 0.33</td>
<td>4893 @ 8</td>
</tr>
</tbody>
</table>

**Stand. Stroke Length**

in. (mm)

4 to 24 in 2" increments

100 to 600 in 50 mm increments

**Input Voltage (VAC):**

115, 230

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**B-Track K2x (AC version)**

Completely sealed, designed for tough, high load applications. Able to perform in harsh environments providing years of trouble-free service.

**Drive Type:** Ball Screw & Ball Nut

**Load Capacity & Speed**

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<tr>
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<tbody>
<tr>
<td>500 @ 2.0</td>
<td>2224 @ 50</td>
</tr>
<tr>
<td>1000 @ 1.0</td>
<td>4448 @ 25</td>
</tr>
<tr>
<td>1500 @ 0.5</td>
<td>6672 @ 12</td>
</tr>
<tr>
<td>2000 @ 0.33</td>
<td>8900 @ 8</td>
</tr>
</tbody>
</table>

**Stand. Stroke Length**

in. (mm)

4 to 24 in 2" increments

100 to 600 in 50 mm increments

**Input Voltage (VAC):**

115, 230

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*See catalog for additional details on IP Ratings.*
Warner Linear offers a broad range of standard actuators to suit many needs. We realize though, that often special application parameters dictate special actuator configurations and modifications. Warner Linear actuators are designed with this in mind, as many of our products can be readily customized to suit specific requirements.

Our products are built on modules that can be mixed and matched in final assembly. Our final assembly operations are configured to provide flexible assembly to accommodate custom orders, quickly and cost effectively.

If your application has a special need that our standard catalog products are unable to fit, please contact your Warner Linear representative or consult with our technical specialists so we can configure a product to fit your need.

A few of our standard special offerings:
- Special pin to pin lengths and stroke lengths
- Special end fittings and mounting configurations
- Special paints and motor lead wire lengths and connectors

Examples of special request features shown
Simple Switch Box Controls

**SBC-AC**
- Easy to use with 115 or 230 VAC input to reverse AC power to the actuator using the DPDT momentary toggle switch on the cover.
- Supplied with 6ft. (182cm) open ended, tinned AC input cable (output cable customer supplied).

**SBC-DC**
- Easy to use with 12, 24 and 48 VDC actuators to reverse power to the actuator using the DPDT momentary toggle switch on the cover.
- Supplied with 12ft. (365cm), 2-wire, 14 AWG input power cable with alligator clip ends and 1ft. output cable with weather pack connector (other options available).

AC to DC Power Supply Products

**M-Track 12 VDC or 24 VDC Output**
- Switching power supply with 85-264 VAC auto-ranging input. Supplied with 6ft. (182cm) open ended, tinned cable. 115 VAC, 3-prong plug can also be provided.
- 12 VDC @ 5.4 Amps or 24 VDC @ 2.7 Amp versions available.
- Can be provided with DPDT momentary rocker switch to reverse power to the actuator.

**B-Track 24 VDC or 90 VDC Output**
- Linear supply with 115 or 230 VAC input options available. Supplied with 6ft. (182cm) open ended, tinned cable. 115 VAC, 3-prong plug can also be provided.
- Outputs 24 VDC @ 12 Amps on 1ft. (30cm) power cable to actuator with 2-pin Packard or Weatherpack connector to mate with actuator, or 90 VDC @ 5 Amps on a 1ft. (30cm) cable with 3-pin Deutsch connector.
- Can be provided with DPDT momentary rocker switch to reverse power to the actuator.
- Speed pot option available on the 90 VDC to vary voltage output to actuator which changes speed.

**P1-DC Electronic Stroke Limit Control**
The P1-ED control provides end of travel stopping by turning off power to the motor via on-board relay. Solid State Hall effect sensors in combination with electronic dynamic braking provide accurate and rapid stops. Sensors are nonadjustable, but applicable in all load ratings and stroke lengths. 12 and 24 volt only.

**EP1-DC Adjustable Stroke Limit Control**
The EP1 control provides end of travel stopping with limit switches that are field adjustable for applications where fine tuning of travel is required. 12 and 24 volt only.

**PQS Quick Stop Control**
The PQS is a bi-directional current limit control. The control monitors current during actuator motion and quickly stops the actuator if an object gets in the way or at the end of stroke.

**P2-DC Position Feedback Control**
The P2-DC is a microprocessor position feedback control providing a 0-10 volt analog output throughout actuator travel.

**RP Low Input Switching Control**
This control provides the switching logic to use low current signal inputs for extending and retracting the actuator rod/screw. It mounts on the back end of Warner Linear’s 12VDC B-Track motor/actuator product.

**Wireless Actuator Control**
Warner Linear’s wireless actuator control can be used to remotely control a 12 or 24VDC actuator up to 100 ft. away.