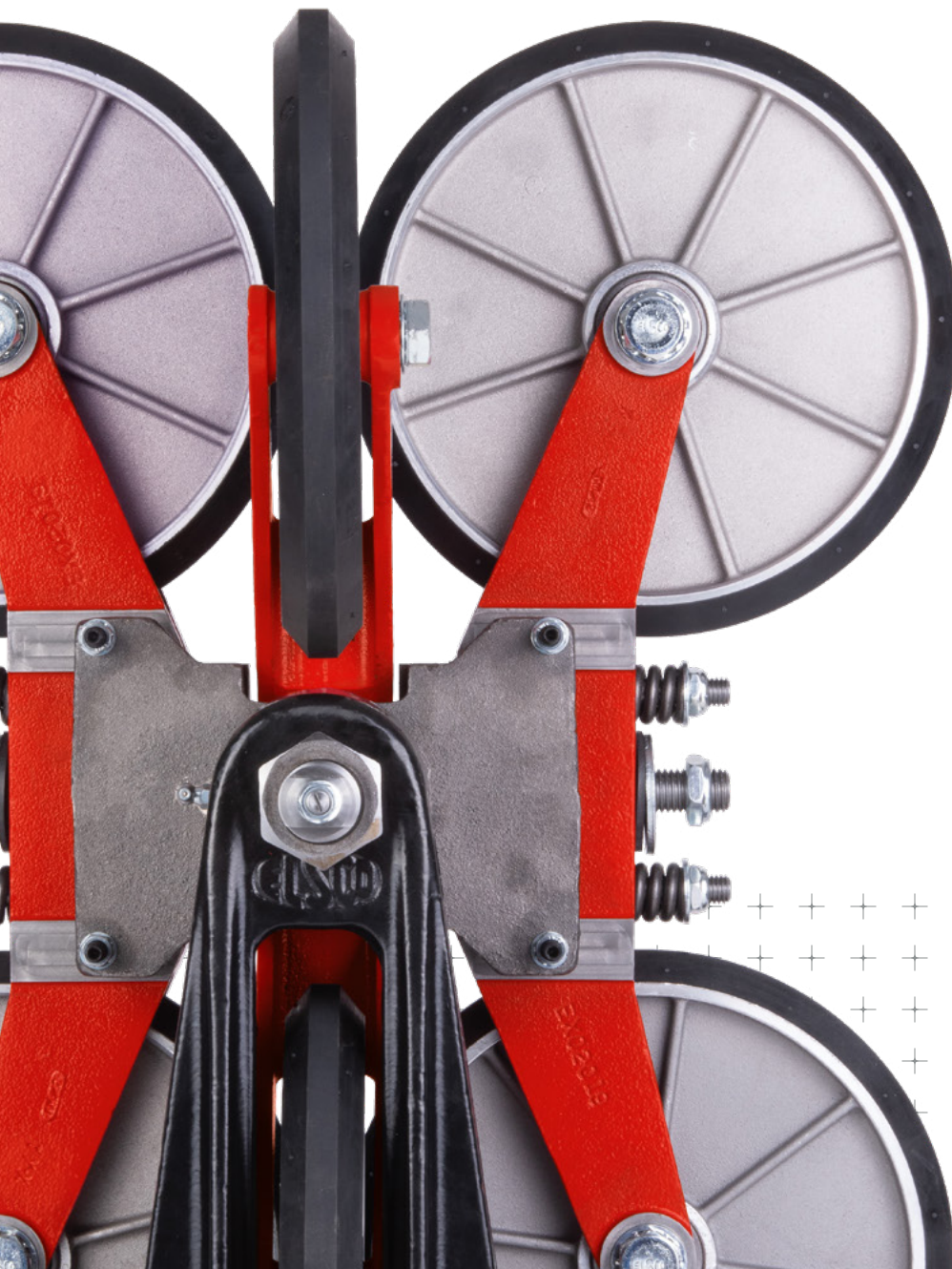




# EXPRESS 6

## **The pinnacle of roller guide performance**

The ultimate solution for the most challenging load applications. Engineered to help mask hoistway imperfections in high-rise buildings while optimizing ride quality and passenger comfort.

Designed for elevator cars with speeds up to 2,000 fpm or capacities up to 6,000 lb in standard applications in high-rise buildings. Contact ELSCO Customer Service for higher-speed or more challenging load applications.

The Express-6 is a high-speed, heavy-load six-wheel paired-roller guide with spring suspension, adjustable stops in all directions and six premium 10" diameter neoprene roller wheels.

Engineered and tested to meet ASME A17.1/ CSA B44 and EN 81 standards (meets ASME A17.1-2013 and newer standards when installed with ASME adapter plates). ELSCO's Express-6 roller guide is constructed from precision machined, ductile iron castings and is assembled using quality parts to ensure the installed roller guide will **GO UNNOTICED.**

### EXCEPTIONAL APPLICATION RANGE

#### 1 Tandem-Roller Arms

- › 6-wheels give added stability that can easily handle the higher loads associated with service and hospital cars or higher speed passenger cars
- › 6-wheel design steps over misaligned rail joints, minimizing in-car vibration at high speeds
- › The added stability of the tandem-roller arm design also helps compensate for unbalanced car conditions

### MINIMIZED NOISE AND VIBRATION

#### 2 Neoprene Rubber Roller Wheels

- › Precision manufactured using ELSCO's proprietary neoprene rubber tread compound
- › 65A durometer tread dampens vibration and reduces noise even in high-speed applications
- › Precisely ground tread profile provides a balanced and concentric roller
- › High-memory tread characteristics prevent flat spotting
- › Excellent resistance to oils, chemicals and UV for extended life

#### 3 Precision Ball Bearings

- › Industrial grade, high quality ball bearings will last for millions of cycles
- › Dual bearing construction provides the roller extra stability, ensuring a true ride, free of noise and vibration
- › Precision bearing press process during assembly at ELSCO ensures perfect fit, alignment and quality

### OPTIMIZED RIDE QUALITY AND FLOAT CONTROL

#### 4 Fully Adjustable Stabilizing Springs

- › Independently adjust the pre-load force of the rollers on the rail to minimize bumps and vibration and ensure proper damping
- › Allow for maximum adjustability to optimize reduction in peak-to-peak lateral forces which improves ride quality

#### 5 Adjustable Stops

- › Allow independent control of the overall float of the elevator car between the rails in post-to post and front-to-back directions
- › Allow for precise final adjustments to deal with troublesome hoistway issues

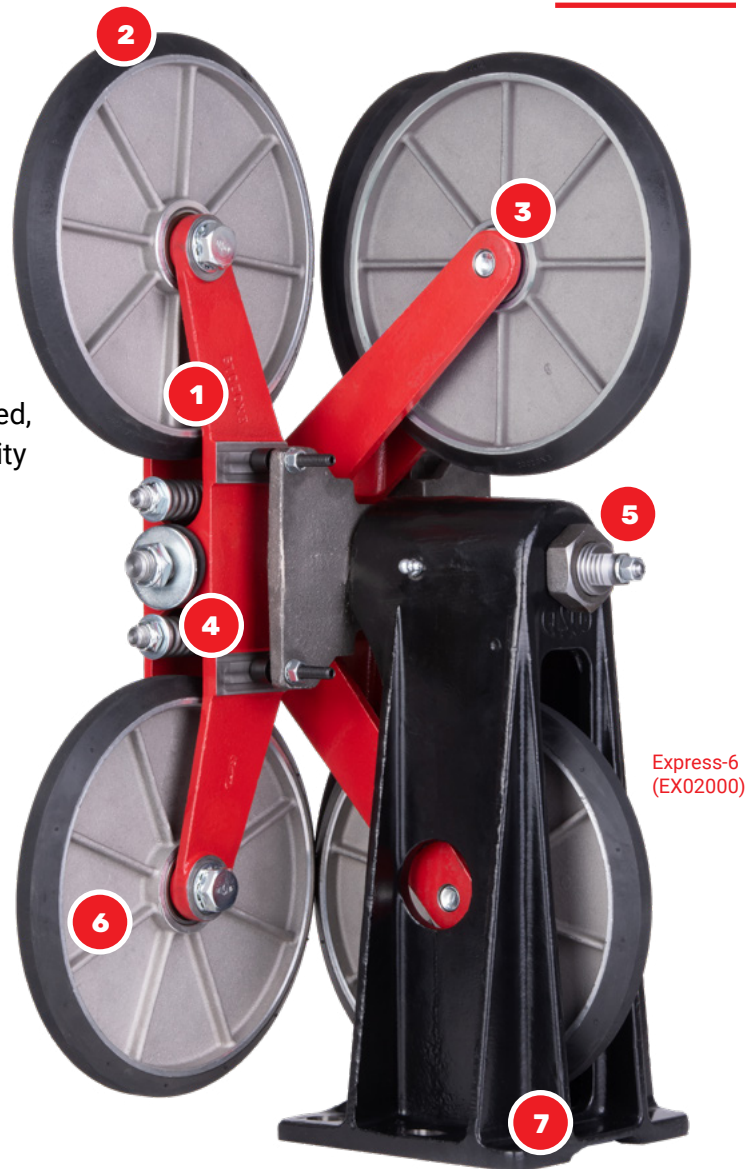
#### 6 Ten-Inch Roller Wheels

- › Extra-large diameter rollers reduce wheel RPMs at high speeds resulting in a smoother, quieter ride
- › Help deal with hoistway imperfections that can be especially troublesome in high-rise buildings

### DURABLE, ENGINEERED DESIGN

#### 7 Heavy-Duty Castings and Design Features

- › Precisely machined castings ensure the final assembly is of the highest quality
- › Tested to meet applicable codes and standards ensuring the guides provide a lifetime of reliable performance



**APPLICATIONS TABLE**

Find the elevator type and verify the platform falls within the platform dimensions listed for that elevator. Next, find the intersection of the elevator's speed and capacity to confirm the roller guide is recommended for the application.

|          |                       | PASSENGER CAR<br>PLATFORM UP TO 10' WIDE X 8' DEEP/<br>(3050 mm X 2440 mm) |                  |                  |                  |                  |                 |
|----------|-----------------------|----------------------------------------------------------------------------|------------------|------------------|------------------|------------------|-----------------|
| CAPACITY | fpm<br>SPEED<br>m/s   | 1000<br> <br>5.0                                                           | 1200<br> <br>6.0 | 1400<br> <br>7.0 | 1600<br> <br>8.0 | 1800<br> <br>9.0 | 2000<br> <br>10 |
|          | ≤2,500 lb<br>1,100 kg |                                                                            |                  |                  |                  |                  |                 |
|          | 3,000 lb<br>1,400 kg  |                                                                            |                  |                  |                  |                  |                 |
|          | 3,500 lb<br>1,600 kg  |                                                                            |                  |                  |                  |                  |                 |
|          | 4,000 lb<br>1,800 kg  |                                                                            |                  |                  |                  |                  |                 |
|          | 4,500 lb<br>2,000 kg  |                                                                            |                  |                  |                  |                  |                 |
|          | 5,000 lb<br>2,300 kg  |                                                                            |                  |                  |                  |                  |                 |
|          | 6,000 lb<br>2,700 kg  |                                                                            |                  |                  |                  |                  |                 |
|          | 7,000 lb<br>3,200 kg  |                                                                            |                  |                  |                  |                  |                 |

Not every elevator is the same. If your application is not indicated in the red shaded area, please contact Customer Service for expert application assistance.

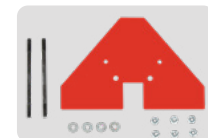
**ROLLER GUIDE RAIL COMPATIBILITY**

● Compatible    ◐ Check Clearance

|        |                      | RAIL SIZES          |                             |                             |                               |                               |                               |                                   |                                    |
|--------|----------------------|---------------------|-----------------------------|-----------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|------------------------------------|
| PART # | ISO<br>ASME<br>WIDTH | T90<br>5/8" (16 mm) | T114<br>11#<br>5/8" (16 mm) | T125<br>12#<br>5/8" (16 mm) | T127-1<br>12#<br>5/8" (16 mm) | T127-2<br>15#<br>5/8" (16 mm) | T140-1<br>18#<br>3/4" (19 mm) | T140-2<br>22#<br>1-1/8" (28.6 mm) | T140-3<br>30#<br>1-1/4" (31.75 mm) |
|        | EX02000              |                     | ●                           | ●                           | ●                             | ●                             | ●                             | ●                                 | ●                                  |
|        |                      |                     |                             |                             |                               |                               |                               |                                   |                                    |

**RECOMMENDATIONS AND SPECIAL CONDITIONS**

- The recommended counterweight roller guide for the Express-6 is the Model A
- For elevators with higher capacity and speed applications, or if the car is heavily leaning or unbalanced, contact ELSCO Customer Service for guide selection recommendations
- Must be installed with an ASME adapter plate if required to comply with ASME A17.1-2013 and newer standards

**OPTIONAL ACCESSORIES**
**Cover Plate Kit**


(EX02009)

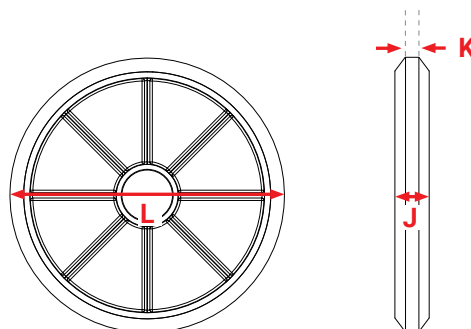
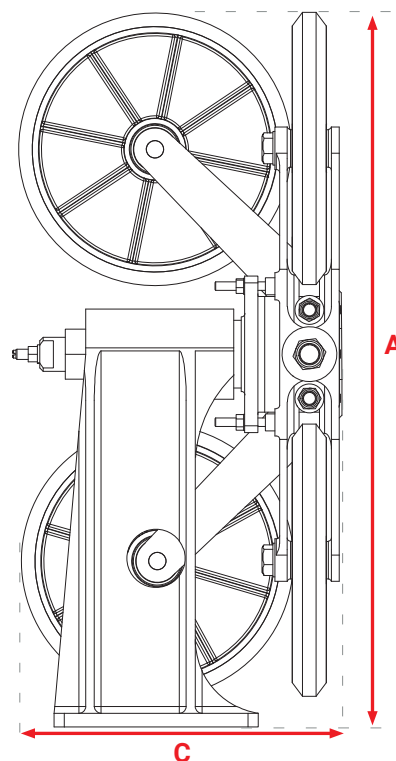
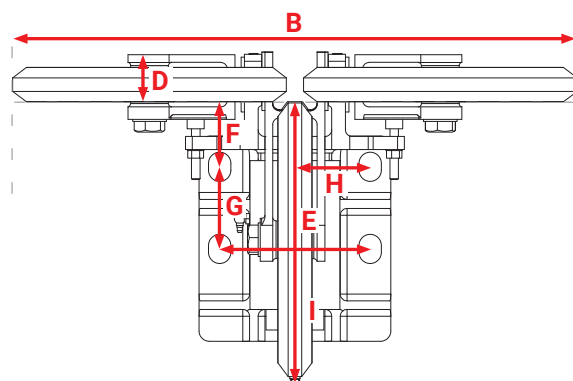
**SEISMIC ACCESSORIES**

Seismic plates must be installed if the guide is used to meet the elevator seismic requirements per ASME A17.1/CSA B44.19, section 8.4 in seismic risk zones 2 or greater.

|               |             | RAIL SIZES    |               |               |               |
|---------------|-------------|---------------|---------------|---------------|---------------|
| Seismic Plate | ISO<br>ASME | T127-2<br>15# | T140-1<br>18# | T140-2<br>22# | T140-3<br>30# |
|               |             | EX06015       | EX06018       | EX06022       | EX06030       |

## CRITICAL DIMENSIONS

| GUIDE MEASUREMENTS                                                                    |                                     |
|---------------------------------------------------------------------------------------|-------------------------------------|
| <b>A</b> - Height, overall                                                            | 26-1/4"<br>(667 mm)                 |
| Height, overall with optional Seismic Plate or ASME adapter plate                     | 26-3/4"<br>(679 mm)                 |
| Height, minimum clearance with optional Cover Plate (ASME adapter plate not included) | 27-1/8"<br>(688 mm)                 |
| <b>B</b> - Width, overall with 15# ( 5/8") rail                                       | 20-5/8"<br>(524 mm)                 |
| <b>C</b> - Depth, overall                                                             | 12-1/8"<br>(307 mm)                 |
| <b>D</b> - Distance from front to face of rail                                        | 1-13/16"<br>(46 mm)                 |
| <b>E</b> - Depth, from face of rail                                                   | 10-5/16"<br>(261 mm)                |
| BOLT SLOT LOCATIONS                                                                   |                                     |
| <b>F</b> - Depth, from face of rail to center of bolt slot                            | 2-3/8"<br>(60 mm)                   |
| <b>G</b> - Distance between bolts on center, y-axis (post-to-post)                    | 3"<br>(76 mm)                       |
| <b>H</b> - Distance from center of face wheel to center of bolt                       | 2-3/4"<br>(70 mm)                   |
| <b>I</b> - Distance between bolts on center, x-axis                                   | 5-1/2"<br>(140 mm)                  |
| MOUNTING BOLT SLOTS                                                                   |                                     |
| Number of bolt slots                                                                  | 4                                   |
| Bolt slot dimensions                                                                  | 1-1/16" x 13/16"<br>(27 mm x 21 mm) |
| WEIGHT                                                                                |                                     |
| Each guide                                                                            | 77.5 lb<br>(35.2 kg)                |
| ROLLER WHEELS                                                                         |                                     |
| <b>J</b> - Width at hub                                                               | 1-1/4"<br>(32 mm)                   |
| <b>K</b> - Neoprene tread width - face & side arm                                     | 1/2"<br>(12.7 mm)                   |
| <b>L</b> - Diameter                                                                   | 10"<br>(254 mm)                     |
| Bearing I.D.                                                                          | 0.787"<br>(20 mm)                   |
| Runout (total indicator reading)                                                      | 0.002"<br>(0.051 mm)                |



Scan here to learn more about the Express-6 Roller Guide and other ELSCO products.