



EXPRESS 3

The next level in ride quality

The Express-3 provides first-class ride quality in very high-speed applications where it's needed most. Patented vibration-suppressing pivot bushings and 10" (254 mm) neoprene roller wheels isolate the elevator cabin from unsettling noise and vibration.

Designed for elevator cars with speeds up to 2,000 fpm (10 m/s) or capacities up to 5,000 lb (2,300 kg) in high-rise buildings.

U.S. Patent No. 7,562,749

The Express-3 is a high-speed three-wheel roller guide with spring suspension, adjustable stops in all directions, and three premium 10" (254 mm) diameter neoprene roller wheels.

Engineered and tested to meet ASME A17.1/CSA B44 and EN 81 standards (meets ASME 17.1 2013 and newer standards when installed with ASME adapter plates), ELSCO's Express-3 roller guide is constructed from precision machined aluminum and ductile iron castings, and is assembled using quality parts to ensure your elevator ride will **GO UNNOTICED.**

ULTIMATE RIDE QUALITY

1 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

2 Patented Elastomeric Pivot Bushings

- › Provide additional suppression of vibrations, more prevalent in higher speed applications, resulting in improved passenger comfort and tenant satisfaction

MINIMIZED NOISE AND VIBRATION

3 Neoprene Rubber Roller Wheels

- › Precision manufactured using ELSCO's proprietary neoprene rubber tread compound
- › 65A durometer tread dampens vibration and reduces noise
- › 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

4 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

TAKE CONTROL OF FLOAT

5 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

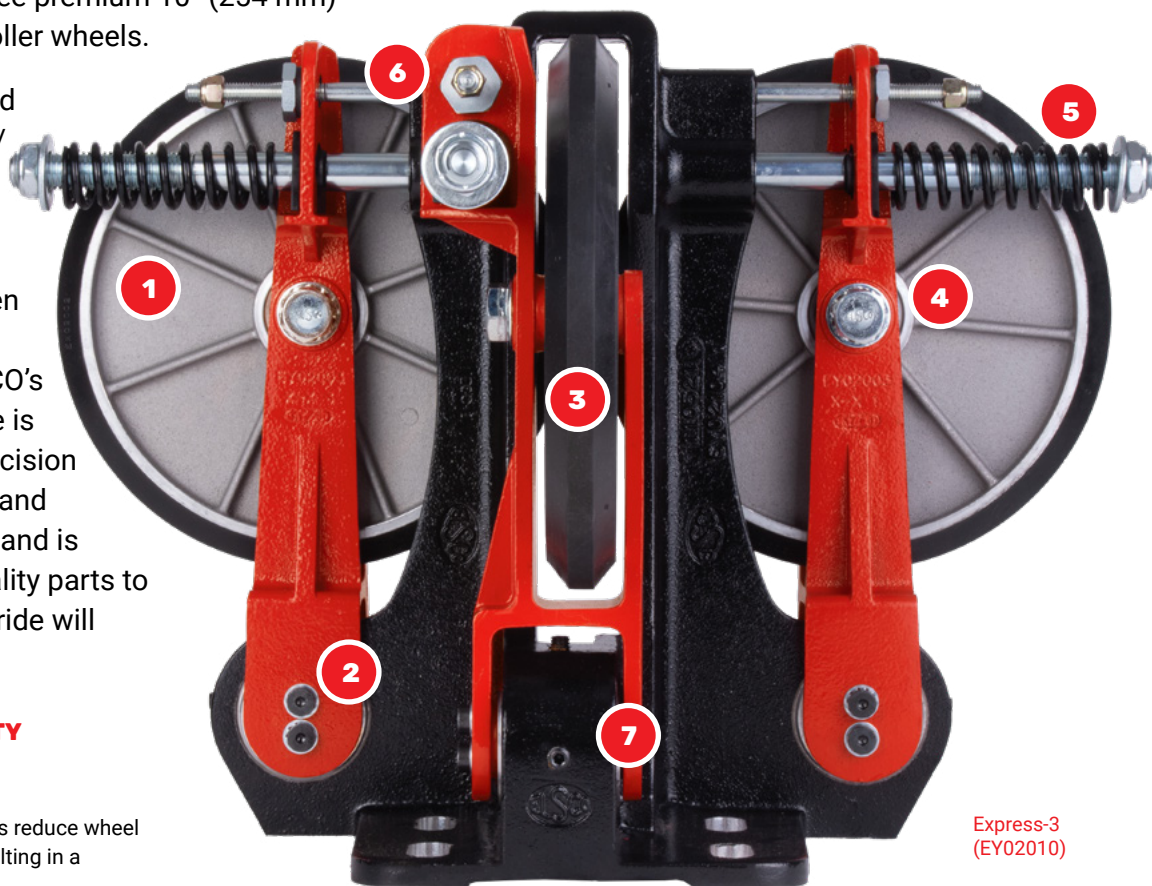
6 Adjustable Stops

- › 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 that adversely affect ride quality

DURABLE, ENGINEERED DESIGN

7 Robust Components

- › 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



Express-3
(EY02010)

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 PLATFORM UP TO 10' WIDE X 8' DEEP/ (3050 mm X 2440 mm)								HOSPITAL CAR PLATFORM UP TO 6' WIDE X 10' DEEP/ (1830 mm X 3050 mm)				FREIGHT/SERVICE CAR PLATFORM UP TO 10' WIDE X 8' DEEP/ (3050 mm X 2440 mm)			
CAPACITY	fpm	800	1000	1200	1400	1600	1800	2000	800	1000	1200	800	1000	1200		
	SPEED															
	m/s	4.0	5.0	6.0	7.0	8.0	9.0	10	4.0	5.0	6.0	4.0	5.0	6.0		
≤2,500 lb 1,100 kg																
3,000 lb 1,400 kg																
3,500 lb 1,600 kg																
4,000 lb 1,800 kg																
4,500 lb 2,000 kg																
5,000 lb 2,300 kg																
6,000 lb 2,700 kg																
Not every elevator is the same. If your application is not indicated in the red shaded area, please contact ELSCO Customer Service for expert application assistance.																

ROLLER GUIDE RAIL COMPATIBILITY

● Compatible ◐ Check Clearance

PART #	RAIL SIZES									
	ISO ASME WIDTH	T89 8# 5/8" (16 mm)	T90 5/8" (16 mm)	T114 11# 5/8" (16 mm)	T125 12# 5/8" (16 mm)	T127-1 12# 5/8" (16 mm)	T127-2 15# 5/8" (16 mm)	T140-1 18# 3/4" (19 mm)	T140-2 22# 1-1/8" (28.6 mm)	T140-3 30# 1-1/4" (31.75 mm)
	EY02010	◐	●	●	●	●	●	●	◐	◐

RECOMMENDATIONS AND SPECIAL CONDITIONS

- In applications up to and including capacities of 5,000 lb and speeds of 1,200 fpm the recommended counterweight roller guide for the Express-3 is the Model C
- At speeds over 1,200 fpm the recommended counterweight roller guide 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

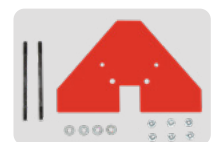
OPTIONAL ACCESSORIES

Flex-Mount™ Adjustable Adaptor Plate



(EA07100)

Cover Plate Kit



(EY02096)

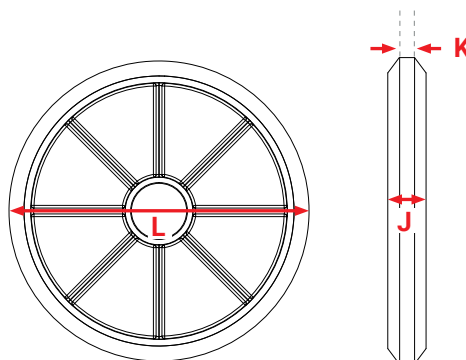
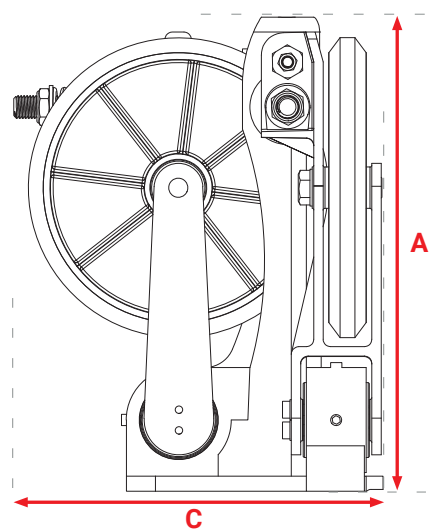
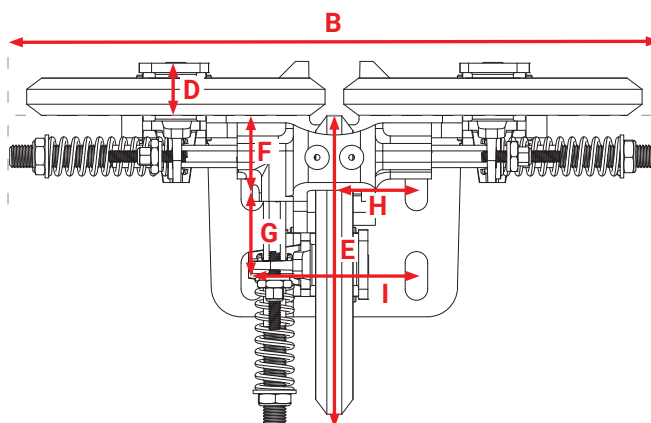
SEISMIC ACCESSORIES

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. Seismic Flex-Mount™ Adjustable Adapter Plates can be used when mounting to pre-existing bolt patterns.

	RAIL SIZES						
ISO ASME	T114 11#	T125 12#	T127-1 12#	T127-2 15#	T140-1 18#	T140-2 22#	T140-3 30#
Seismic Plate	EY06015 			EY06015	EY06018	EY06022	EY06030
Seismic Flex-Mount™ Adjustable Adapter Plate	EA07100-S-15 			EA07100-S-15	EA07100-S-18	EA07100-S-22	EA07100-S-30

CRITICAL DIMENSIONS

GUIDE MEASUREMENTS	
A - Height, overall	15-13/16" (402 mm)
Height, overall with optional Flex-Mount™	18-13/16" (477 mm)
Height, overall with optional Seismic Plate or ASME adapter plate	16-5/16" (414 mm)
Height, minimum clearance with optional Cover Plate (ASME adapter plate not included)	16-5/16" (414 mm)
B - Width, overall	21-3/4" (553 mm)
C - Depth, overall	12-5/16" (313 mm)
D - Distance from front to face of rail	1-7/8" (47 mm)
E - Depth, from face of rail	10-1/2" (266 mm)
BOLT SLOT LOCATIONS	
F - Depth, from face of rail to center of bolt slot	2-3/8" (60 mm)
G - Distance between bolts on center, y-axis (post-to-post)	3" (76 mm)
H - Distance from center of face wheel to center of bolt	2-3/4" (70 mm)
I - Distance between bolts on center, x-axis	5-1/2" (140 mm)
MOUNTING BOLT SLOTS	
Number of bolt slots	4
Bolt slot dimensions	1-5/8" x 3/4" (41 mm x 19 mm)
WEIGHT	
Each guide	46.8 lb (21.3 kg)
ROLLER WHEELS	
J - Width at hub	1-1/4" (32 mm)
K - Neoprene tread width - face & side arm	1/2" (12.7 mm)
L - Diameter	10" (254 mm)
Bearing I.D.	0.787" (20 mm)
Runout (total indicator reading)	0.002" (0.051 mm)



Scan here to learn more about the Express-3 Roller Guide and other ELSCO products.