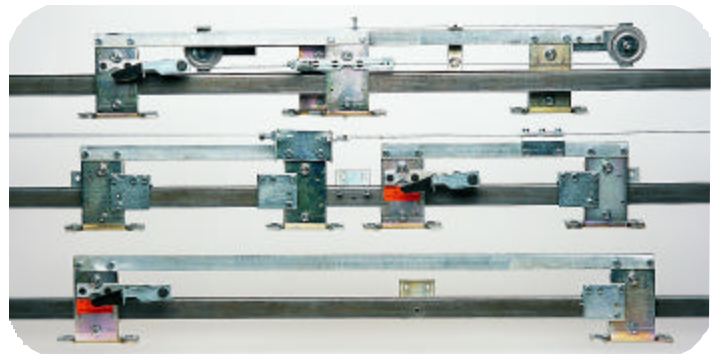
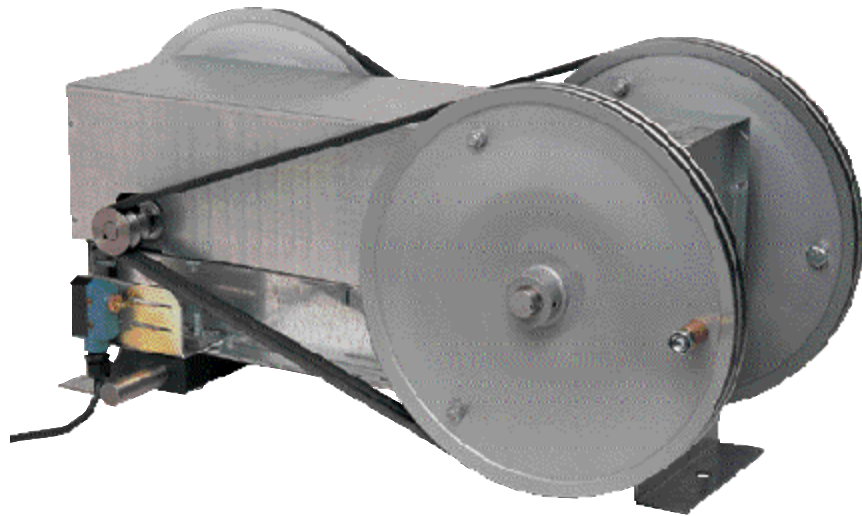




DOOR MOTORIZATION

Harmonic Operator & Track



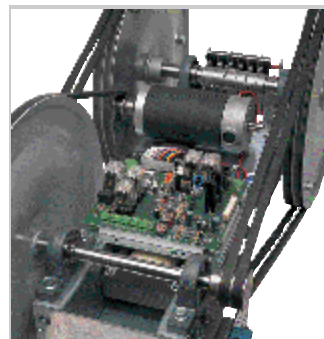


**Elevator Solutions International Inc.
Harmonic Operators**

Features

- Permanent magnet D.C. motor
- Integral solid state control
- Ball bearing construction
- Quiet V-belt drive
- Full top cover (provides protection from potentially damaging elements)
- Full bottom cover (isolates power supply)
- Welded frame
- Dual output power supply on Heavy Duty (regular & auxilliary) and Super Duty
- Dual drive belts (reduces belt slippage due to increased torque)
- Permanent magnet, solid-state control door operator
- Car gate switch
- Car door clutch with restrictive opening device
- Car door hangers and tracks
- Hoistway door drive and interlock assembly
- Hoistway door hangers and tracks
- Adapter bars for door top mountings
- Adapter plates for existing door drives
- Auxiliary reel-type door closers

High Performance Operator



Standard Harmonic Operators

	S. Slide	Ctr. Opng.	2spd	2spd/CO	Speed	Max door Wt.
Standard Range	•	•	•		2.0-2.5 ft/sec	470#
High Performance	•	•	•	•	2.5-3.0 ft.sec	470#
High Performance Aux. Shaft	•		•		2.0-2.5 ft/sec	525#
Maximum Duty		•	•	•	2.0-2.5 ft/sec	670#

Special Applications

G Conversion	•	•	•	•	2.0-2.5 ft/sec	525#
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Elevator Solutions International Inc. Car & Hatch Track

ES-1

Standard Door Sizes

ES-3



32, 36, 38, 40, 42 inches

SSL



36, 42 inches



36, 38, 40, 42, 44, 46, 48 inches

CO



36, 42, 48 inches



36, 38, 40, 42, 44, 46, 48 inches

2Spd

2 Spd not available in ES-3

ES-1 Features

- ES-1 Hangers are the most versatile of our hanger product line. (Also known as the "traditional hanger".)
- Due to their versatility they are used on new construction, as well as modernization and service repair where extraordinary building constraints require a custom designed hanger specifically for that application.
- These building limitations can be narrow hoistways, unusual opening widths door applications, or low pocket heights.
- We have a design staff ready to work with general contractors, architects and elevator contractors to meet their needs of their specific application.
- There are two configurations for the ES-1 Hanger $\frac{1}{2}$ x 1-1/2 in.: Standard Duty (hatch only), and $\frac{1}{2}$ x 2-1/2 in. Heavy Duty (car and hatch).
- Double hanger pendants are attached by a pendant angle. It has non-eccentric polyurethane rollers that ride on the door track. It also has two configurations 2-1/2 in. running diameter for 1-1/2 in. track, and 3-1/4 in. running diameter for 2-1/2 in. track.
- Eccentric upthrust rollers are positioned under the track to prevent the doors from being accidentally forced off the door track. It is also used for adjustment. The hangers are secured to the door with adjustable pendant bolts. The cable sheaves secure the 1/8 in. flexible cabling. The track mounting brackets are used to mount the hanger to the header. The pendant angle is to support the pendants.

Custom Sizes available in ES-1

ES-3 Features

- Used widely in both hydraulic, and traction installations the ES-3 Door Hangers were designed specifically to save installation time on Single Speed and Center Opening applications.
- The Tracks are constructed of $\frac{1}{2}$ " x 1-1/2 (12.7 x 63.5 mm) cold rolled bar with $\frac{1}{2}$ " top radius to accept the sheave.
- The pendant bodies are one-piece each having 2 sheaves. All Sheaves are 3-1/2" diameter with eccentric studs.
- This innovative design replaces the double pendant door hangers (each having 4-pendant bolts, and 8-jack nuts).
- The doors are attached to the hangers via an internal attachment bar which bolts directly to the pendant body (when using ESII doors).
- Door attachment time is reduced by eliminating the pendant bolts and jack nuts associated with the traditional style hanger.
- Door leveling is achieved simply by adjusting the (2) eccentric studs located in the Sheaves, thereby eliminating even more installation time.
- These hangers are pre-engineered to fit most common opening sizes and are widely accepted and used.
- ES-3 Door Hangers have been fire tested, and carry 1-1/2 hour U.L. fire rating and CSA electrical rating.

NOTE: Center Opening Track does not utilize two interlocks required by MEA.

Elevator Solutions International Inc.



Contact Us for

Cabs

Entrances

Door Motorization
(Operators, car & hatch track)

Doors

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