Harmonic Operator and Track Options

Columbia Elevator manufactures a time tested line of robust operator equipment with track and hanger options.

Columbia Harmonic Operator and track equipment is extremely well constructed using a design that has been tested with over 40 years of installations. In addition, Columbia’s Harmonic Operator track is available for both the car side and entrance side.

Modernizations are simplified as this equipment is compatible with thousands of MAC® installations across North America. Available in a wide range of sizes, Columbia Harmonic Operator equipment is also well suited for new installations.

All of Columbia Operator and track equipment, including our closed loop operator, is manufactured in our facility by associates with years of experience.
Harmonic Operator Options

Standard Operator Packages
Standard Range Operator
Split Link
Long Lever Standard
Crank Arm Adjustable
DOOR DRIVE BLOCK

Closed Loop Operator Packages
Closed Loop Operator
Split Link
Long Lever Standard
Crank Arm Adjustable
DOOR DRIVE BLOCK

High Performance Operator Packages
High Performance Operator
Split Link
Long Lever Standard
Crank Arm Adjustable
DOOR DRIVE BLOCK

Auxiliary Shaft Operator Packages
High Perf. Aux. Shaft Operator
Split Link
Long Lever Standard
Crank Arm Adjustable
DOOR DRIVE BLOCK

<table>
<thead>
<tr>
<th>Feature</th>
<th>S.Slide</th>
<th>Ctr.Opng.</th>
<th>2Spd.</th>
<th>2Spd/CO</th>
<th>Speed</th>
<th>Max Door Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Range</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>2.0-2.5 ft/sec</td>
<td>470#</td>
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<tr>
<td>High Performance / Closed Loop</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>2.5-3.0 ft/sec</td>
<td>500#</td>
</tr>
<tr>
<td>High Performance Auxiliary Shaft</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td></td>
<td>2.0-2.5 ft/sec</td>
<td>525#</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Feature</th>
<th>Standard Range</th>
<th>High Performance</th>
<th>High Performance Auxiliary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permanent magnet D.C. motor</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Integral solid state control</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Ball bearing construction</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Quiet V-belt drive</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Full top cover (provides protection from potentially damaging elements)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Full bottom cover (isolates power supply)</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Welded frame</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>Dual output power supply</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Dual drive belts (reduces belt slippage due To increased torque)</td>
<td>X</td>
<td>X</td>
<td></td>
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<tr>
<td>Auxiliary reduction shaft (increases Mechanical advantage)</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
Harmonic Track Options

ES-1 Single Speed, Side-Opening

ES-1 Center Opening

ES-1 Features

ES-1 Hangers are a dimensionally versatile 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 building constraints require a custom designed hanger specifically for that application.

These building limitations can be narrow hoist ways, 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 ½ x 1½ in.: Standard Duty track (hatch only), and ½ x 2½ in. Heavy Duty track (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 2½ in. running diameter for 1½ in. track, and 3¼ in. running diameter for 2½ 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.

Hatch Hanger Packages

Hatch Hanger
Interlock
Reel Closer
Unlocking Arm
Hatch Hardware

Car Hanger Packages

Car Hanger
Gate Switch
Standard Clutch
Car Hardware

888-858-1558
www.columbiaelevator.com
info@columbia-elevator.com
**Harmonic Parts Options**

**Car Side**
- Clutches: restrictive - 1¾ inch sill application

**Hatch Side**
- Door interlocks: with 1¾ inch sill
- Door drives: horizontal
- Reel closers

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