Quiet Linear Guideway with SynchMotion™ Technology

**Advantages of SynchMotion™ Technology**

- Long service life
- Smooth movement
- Even lubrication

**QH/QE Series**

**Model Number**

<table>
<thead>
<tr>
<th>QH</th>
<th>W25</th>
<th>C</th>
<th>A</th>
<th>2</th>
<th>B</th>
<th>1600</th>
<th>E</th>
<th>2A</th>
<th>P</th>
<th>E</th>
<th>KK</th>
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**Advantages & Features**

**1) Low Friction Design**

With SynchMotion™ technology, rolling elements are interposed between the partitions of SynchMotion™ to provide improved on lubrication. Due to the alternating of sections between the rolling elements, contact friction and metal-to-metal friction are effectively reduced.

**2) Self-Lubricated Design**

The partition is a grouping of hollow rings. Oil or other lubricant can be introduced to lubricate the inner race of the rolling elements, preventing dry friction and ensuring smooth running. The QH/QE linear guideway can be madeTriple bearing track parallel to the inner race, allowing for smooth movement, longer running life. Therefore the QH/QE series, and also offers smooth movement, superior lubrication, quieter operation and longer running life. Therefore the QUIET linear guideway has broad industry where high speed, low noise, and reduced dust generation is required.

**3) High Speed Performance**

The QUIET™ offers excellent high-speed performance due to the partitions of the SynchMotion™ structure. They are specifically designed to absorb the vibration of the rolling elements as well as the metal from between adjacent rails, eliminating vibrations and noises.

**4) Smooth Movement**

Due to the unique design, rolling elements on the inside safely reduce rolling friction, thus allowing easy and smooth movement. When the inner race inner rolling elements, many inserts materials contact occurs. This results in a great variation of the rolling elements on the inner race. The reduced friction and noise reduction of SynchMotion™ technology prevents this condition. As the block starts to move, the separator is inserted into the space between adjacent rails. The separator then begins to rotate and separate and spread apart until it contacts the bottom rail. This movement and separation of the separator is important not only for movement, but also for preventing the build-up of dust and ensuring a clean operating condition.

**Dust Protection**

No. of Rails per axis

<table>
<thead>
<tr>
<th>Load Test</th>
<th>Force (N)</th>
<th>dB(A)</th>
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</thead>
<tbody>
<tr>
<td>5kN</td>
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</tr>
<tr>
<td>10kN</td>
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<td></td>
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<td>15kN</td>
<td></td>
<td></td>
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<tr>
<td>20kN</td>
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<td></td>
</tr>
<tr>
<td>25kN</td>
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**Comparison with HG Series**

<table>
<thead>
<tr>
<th>Distance Travel</th>
<th>HG25 No Grease</th>
<th>QH25 No Grease</th>
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</thead>
<tbody>
<tr>
<td>4,000km</td>
<td>5dB</td>
<td>5dB</td>
</tr>
</tbody>
</table>

**Contact Information**

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### Dimensions for QHW-CB/QHW-HB

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<th>Rating</th>
<th>Block Rail (mm)</th>
<th>Static Rated kN-m (R/M/Y)</th>
<th>Block Rail (kg)</th>
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<td>105.8</td>
<td>139.4</td>
<td>97</td>
<td>12.9 Ø</td>
<td>10.41 1.07 0.76 1.56</td>
<td>23.08 0.26</td>
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