Double Guard Chain (WG)

Double Guard Chain is highly corrosion resistant with coating of double layers of two different materials. Compared to the High-Guard Chain, it exhibits nearly doubled corrosion resistance in the salt water spray test, and can be used in mild alkaline and mild acidic conditions.

Features
- With its improved corrosion resistance, it can be used in circumstances where High-Guard or Rustless Chains cannot be used, and even in some conditions where only stainless steel can be used.
- The coating consists of environmentally friendly non-chrome material. To comply with the EU's Restriction of Hazardous Substances (RoHS) Directive, hexavalent chromium is not used.

Recommended uses
- Conditions that require both strength and corrosion resistance.
- Multilevel parking facility, moving decks, cleansing lines etc.
- Conditions exposed to rain or sea water.
- Machines installed outside, amusement machines.
- Conditions exposed to mild alkaline and mild acidic chemical agents, sea water or wastewater. Various chemical plants and water treatment plants.

Performance Comparison

<table>
<thead>
<tr>
<th>Name</th>
<th>Code</th>
<th>Strength</th>
<th>Corrosive resistance</th>
<th>Surface conditions after corrosion test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double-Guard</td>
<td>WG</td>
<td>100%</td>
<td>[Double of High-Guard]</td>
<td>[Double of High-Guard]</td>
</tr>
<tr>
<td>Hi-Guard</td>
<td>E</td>
<td>100%</td>
<td>△</td>
<td>[Double of High-Guard]</td>
</tr>
<tr>
<td>Standard</td>
<td>—</td>
<td>100%</td>
<td>△</td>
<td>[Double of High-Guard]</td>
</tr>
<tr>
<td>Nickel plated</td>
<td>N</td>
<td>100%</td>
<td>△</td>
<td>(Rusting)</td>
</tr>
<tr>
<td>Stainless steel</td>
<td>SS</td>
<td>10%</td>
<td>△</td>
<td>(No alkaline resistance)</td>
</tr>
</tbody>
</table>

CASS test - Double Guard Chain: 60Hr, Nickel plated chain: 20Hr

Note: ◎: Excellent, ○: Very good, △: Good, ×: No good
Selection of chains
Double Guard Chain has an equivalent strength to a standard roller chain. Please refer to p122–124 for chain selection.

Connecting links and offset links
RJ type connecting links are used for high-guard chains #60 or smaller and CJ type connecting links for #80 or larger, and OJ and 2POJ are used as offset links.

Sprockets
Standard sprockets for high-guard chains can be used since the dimensions are the same as standard roller chains.

Caution
① Use stainless steel chains if the chains will come in direct contact with food.
② Double Guard chain does not have a gloss like the nickel coated chain.
③ Unless not so specified by the customer, chains are coated with grease and shipped. If possible, oil the spaces between pins and bushes and bushes and rollers. Please use the recommended lubrication oil (P134) for the maintenance of the chain as oiling with grease can cause flexion failure.
④ Please be noticed that the surface layer might come off from sliding part when operation.

Dimensions

<table>
<thead>
<tr>
<th>Chain No.</th>
<th>Pitch P</th>
<th>Roller link width W</th>
<th>Roller Bush dia. D</th>
<th>Pin</th>
<th>Plate</th>
<th>Avg. tensile strength</th>
<th>Max. allowable load</th>
<th>Approx. weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>DID 40WG</td>
<td>12.70</td>
<td>7.95</td>
<td>7.92</td>
<td>3.97</td>
<td>16.5</td>
<td>17.6</td>
<td>—</td>
<td>9.5</td>
</tr>
<tr>
<td>DID 50WG</td>
<td>15.873</td>
<td>9.53</td>
<td>10.16</td>
<td>5.09</td>
<td>20.3</td>
<td>21.9</td>
<td>—</td>
<td>11.6</td>
</tr>
<tr>
<td>DID 60WG</td>
<td>19.05</td>
<td>12.70</td>
<td>11.91</td>
<td>5.96</td>
<td>25.4</td>
<td>26.9</td>
<td>—</td>
<td>14.3</td>
</tr>
<tr>
<td>DID 80WG</td>
<td>25.40</td>
<td>15.88</td>
<td>15.88</td>
<td>7.94</td>
<td>32.6</td>
<td>35.4</td>
<td>—</td>
<td>19.0</td>
</tr>
</tbody>
</table>

Note: Ask us for the delivery time