Omega® Elastomeric Couplings

Rexnord Omega Elastomeric Couplings
The Benchmark for Over 40 Years

Rexnord Omega Elastomeric Couplings are non-lubricated, material-flexing split-in-half tire couplings used in a variety of demanding applications in many industries. This all-purpose coupling has excellent vibration dampening capability, helping to provide extended life to connected equipment.

Omega couplings offer easy installation and replace-in-place design, while accommodating a wide range of shaft gaps.

Higher Material Strength
Omega’s specially formulated polyurethane provides significantly higher peak torque capabilities than competitive rubber based solutions allowing for a smaller size coupling at a lighter weight and ultimately a lower Total Cost of Ownership (TCO).

Weight Balanced Elements
Omega half elements are tightly weight matched to ensure standard weight balance conforms with ISO G16 and AGMA Class 8, helping to prevent premature wearing of connected equipment due to an unbalanced coupling.

Variety of Sizes and Options
In addition to being available in 16 metric and imperial sizes, Omega is offered as a general-purpose Orange, in a Heavy Duty Yellow option that provides 25% more torque capacity, and a Hydrolytically Stable Green option that’s ideal for hot and humid environments. Anti-corrosive coated steel shoes and stainless steel hardware or hubs are also available upon request.

Proven & Trusted Performance
Omega couplings have been used for over 40 years in a wide assortment of demanding applications and recognized in the industry as the benchmark for elastomeric split-in-half tire couplings.

Applications:
- Pumps
- Compressors
- Industrial Fans
- Mixers

Available Options:
- Hydrolytically Stable Urethane Element
- Heavy Duty Element
- Corrosion Resistant Element
- Stainless Steel Hubs and Hardware
- Spline Bore Hubs
- Keyless Hub/Internal Locking Device Designs
- Limited End Float
- Positive Drive Coupling

Worldwide Support:
www.rexnord.com/contact/worldwide-locations

ATEX II 2GD c T5

Standard Orange

Heavy Duty Yellow (HDY)

Hydrolytically Stable Urethane Green (HSU)
Polyurethane-to-Metal Bond
minimizes coupling components and eliminates potential slippage associated with mechanically clamped designs.

Torsionally Soft Flex Element
cushions shock loads and vibration to protect and extend connected equipment life.

Radial Bolting provides easier access than axially bolted couplings in confined areas. Hardware available in carbon steel or stainless steel.

Split-in-Half Design for easy assembly and replacement without having to remove the hubs. No need to move hubs, or realign equipment when replacing the coupling element.

Interchangeable Hubs between close coupled and spacer elements allow for reduced inventory. Hubs are available in carbon steel, 303-304 stainless steel, or with electroless nickel plating.

Weight Balanced Elements for higher speed ratings and prevention of premature wearing due to an unbalanced coupling.

Phosphate coated anti-corrosive steel shoe and stainless steel hardware available with Green (HSU-J).

High-misalignment Capacity accommodates unavoidable misalignment with reduced reactionary forces on connected equipment.

Allowable Misalignment

Orange & HSU — Any combination of parallel and angular misalignment which falls under the triangle will not cause a premature fatigue failure of the flexible element in normal use.

HDY — All sizes 2-140 have ratings of 2° angular and 1/16" (1.6mm) as represented in the yellow box below:

<table>
<thead>
<tr>
<th>Size (E or ES)</th>
<th>Standard &amp; HSU Omega Ratings (in-lbs / Nm)</th>
<th>HDY Omega Ratings (in-lbs / Nm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>190 / 22</td>
<td>238 / 28</td>
</tr>
<tr>
<td>3</td>
<td>365 / 41</td>
<td>456 / 51</td>
</tr>
<tr>
<td>4</td>
<td>550 / 62</td>
<td>687 / 78</td>
</tr>
<tr>
<td>5</td>
<td>925 / 105</td>
<td>1,156 / 131</td>
</tr>
<tr>
<td>10</td>
<td>1,450 / 164</td>
<td>1,812 / 205</td>
</tr>
<tr>
<td>15</td>
<td>1,800 / 204</td>
<td>2,249 / 255</td>
</tr>
<tr>
<td>20</td>
<td>2,300 / 260</td>
<td>2,875 / 325</td>
</tr>
<tr>
<td>30</td>
<td>3,650 / 412</td>
<td>4,563 / 515</td>
</tr>
<tr>
<td>40</td>
<td>5,500 / 622</td>
<td>6,875 / 778</td>
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<tr>
<td>50</td>
<td>7,650 / 864</td>
<td>9,563 / 1,080</td>
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<tr>
<td>60</td>
<td>12,500 / 1,412</td>
<td>15,625 / 1,765</td>
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<tr>
<td>70</td>
<td>22,125 / 2,486</td>
<td>27,656 / 3,108</td>
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<td>80</td>
<td>39,500 / 4,463</td>
<td>49,375 / 5,579</td>
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<td>100</td>
<td>85,050 / 9,605</td>
<td>106,312 / 12,006</td>
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<td>120</td>
<td>170,100 / 19,221</td>
<td>212,625 / 24,026</td>
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<tr>
<td>140</td>
<td>340,200 / 38,442</td>
<td>425,250 / 48,053</td>
</tr>
</tbody>
</table>

Omega Coupling
Allowable Misalignment

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