**NEW LOW COST SERVO COUPLING**

**EKC SERIES ELASTOMER COUPLING**

**Major Features**
- Low cost elastomer coupling for motion control applications
- Quick standard delivery (same day delivery available)
- Star-shaped elastomer element with involute tooth profile and high shore hardness ensures zero backlash over life of product.
- Elastomer spider compensates for small shaft misalignments.

**Material**
- Anodized aluminum hubs and polyurethane 92 Shore A, 98 Shore A, and 72 Shore D spiders available

**Technical data/Dimensions**

<table>
<thead>
<tr>
<th>Coupling Size</th>
<th>Rated Torque* (Nm)</th>
<th>Elastomer Color</th>
<th>Moment of Inertia 10⁻³kgm² (lb-in²)</th>
<th>Torsion Resistance Nm/arcmin (lb-ft/Deg)</th>
<th>Max. Lateral Misalignment mm (inch)</th>
<th>Mass kg (lbs)</th>
<th>Torque to Tighten Screws Nm (lb-in)</th>
<th>Bore Range (D) min. mm (inch)</th>
<th>Bore Range (D) max. mm (inch)</th>
<th>Standard Bore Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>EKC-5</td>
<td>5 (44)</td>
<td>Yellow</td>
<td>0.0060 (0.0204)</td>
<td>0.008 (0.35)</td>
<td>0.15 (0.0059)</td>
<td></td>
<td>5.65 (50)</td>
<td>5 (0.1969)</td>
<td>15 (0.5906)</td>
<td>6, 8, 10, 11, 12, 14 0.25&quot;, 0.375&quot;, 0.5&quot;</td>
</tr>
<tr>
<td>EKC-25</td>
<td>25 (221)</td>
<td>Yellow</td>
<td>0.0407 (0.1390)</td>
<td>0.109 (4.84)</td>
<td>0.1 (0.0039)</td>
<td></td>
<td>13.00 (115)</td>
<td>8 (0.3150)</td>
<td>20 (0.7874)</td>
<td>10, 11, 12, 14, 16, 19, 20 0.375&quot;, 0.5&quot;, 0.625&quot;, 0.75&quot;</td>
</tr>
<tr>
<td>EKC-35</td>
<td>35 (310)</td>
<td>Yellow</td>
<td>0.1667 (0.5696)</td>
<td>0.268 (11.869)</td>
<td>0.14 (0.0055)</td>
<td></td>
<td>13.00 (115)</td>
<td>13 (0.5118)</td>
<td>28 (1.1024)</td>
<td>14, 16, 19, 20, 24, 28 0.5&quot;, 0.625&quot;, 0.75&quot;, 1&quot;</td>
</tr>
<tr>
<td>EKC-80</td>
<td>80 (708)</td>
<td>Yellow</td>
<td>0.3825 (1.3071)</td>
<td>0.346 (15.32)</td>
<td>0.15 (0.0059)</td>
<td></td>
<td>27.68 (245)</td>
<td>19 (0.7480)</td>
<td>38.1 (1.5)</td>
<td>19, 20, 24, 28, 32, 35 0.75&quot;, 1&quot;, 1.25&quot;, 1.375&quot;, 1.5&quot;</td>
</tr>
<tr>
<td>EKC-110</td>
<td>110 (443)</td>
<td>Yellow</td>
<td>1.1026 (3.7677)</td>
<td>0.661 (29.25)</td>
<td>0.17 (0.0067)</td>
<td></td>
<td>27.68 (245)</td>
<td>24 (0.9449)</td>
<td>45 (1.7717)</td>
<td>24, 28, 32, 35, 38, 40 1&quot;, 1.25&quot;, 1.375&quot;, 1.5&quot;</td>
</tr>
</tbody>
</table>

*Higher torques permissible at larger bores

**Dimension**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>EKC-5</th>
<th>EKC-25</th>
<th>EKC-35</th>
<th>EKC-80</th>
<th>EKC-110</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1: Overall Length</td>
<td>35 (1.38)</td>
<td>66 (2.6)</td>
<td>78 (3.07)</td>
<td>90 (3.54)</td>
<td>114 (4.49)</td>
</tr>
<tr>
<td>L2: Gap</td>
<td>1.5 (0.06)</td>
<td>2 (0.08)</td>
<td>2 (0.08)</td>
<td>2.5 (0.10)</td>
<td>3 (0.12)</td>
</tr>
<tr>
<td>L3: Radial Bolt Location</td>
<td>10 (0.39)</td>
<td>14.5 (0.57)</td>
<td>20 (0.79)</td>
<td>25 (0.98)</td>
<td>30 (1.18)</td>
</tr>
<tr>
<td>L4: Hub Thickness</td>
<td>11 (0.43)</td>
<td>25 (0.98)</td>
<td>30 (1.18)</td>
<td>35 (1.38)</td>
<td>45 (1.77)</td>
</tr>
<tr>
<td>L5: Engagement</td>
<td>16.5 (0.65)</td>
<td>31.5 (1.24)</td>
<td>37.5 (1.475)</td>
<td>43 (1.69)</td>
<td>55 (2.165)</td>
</tr>
<tr>
<td>D1: Hub OD</td>
<td>30 (1.18)</td>
<td>40 (1.57)</td>
<td>55 (2.17)</td>
<td>65 (2.56)</td>
<td>80 (3.15)</td>
</tr>
<tr>
<td>D1*: Overall OD (w/bolts)</td>
<td>32 (1.26)</td>
<td>45 (1.77)</td>
<td>57 (2.24)</td>
<td>72 (2.83)</td>
<td>83 (3.27)</td>
</tr>
<tr>
<td>D2: Elastomer ID</td>
<td>10.5 (0.41)</td>
<td>18 (0.71)</td>
<td>27 (1.06)</td>
<td>30 (1.18)</td>
<td>38 (1.5)</td>
</tr>
<tr>
<td>H: Axial Bolt Location</td>
<td>5 (0.2)</td>
<td>11 (0.43)</td>
<td>10.5 (0.41)</td>
<td>11.5 (0.45)</td>
<td>15.5 (0.61)</td>
</tr>
<tr>
<td>f1: Screw Size</td>
<td>M4</td>
<td>M6</td>
<td>M6</td>
<td>M8</td>
<td>M8</td>
</tr>
</tbody>
</table>

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Couplings must be selected so rated torque is higher than highest operational torque of the application (i.e., during acceleration).
EKC Series Elastomer Coupling

Sample order code:

EKC-35R-0.25N-28K

Keyway Callout *
N= No Keyway
K = Keyway

Bore Size 1
Bore Size 2

Elastomer Color
92 Sh A-Y
98 Sh A-R
72 Sh D-W

*Keyways are cut per DIN 6885 (metric) or ANSI B 17.1 (English)

Coupon Size: 5, 25, 35, 80, 110

GAM is ranked as one of Inc. Magazine’s 2008 top 5000 fastest growing private companies in America

GAM is a leading provider of precision mechanical power transmission components used in the automation of machinery. GAM has a broad product range of gear-reducers, servo-couplings, safety-couplings, and motor mount kits. Our Motto is: BE FLEXIBLE TO MEET OUR CUSTOMERS’ REQUESTS AND GIVE GREAT SERVICE. That means, if you can’t find exactly what you are looking for in our standard catalog, contact us.

GAM CAN.
JUST ASK!

Other GAM Products

Linear Slide Kit (LSK): Customized mounting solution without long lead times
- Customized assembly to mount any motor or gearbox to any linear slide
- Coupling included
- Quick delivery

EPL Series: Low cost inline planetary gear reducer with custom configurations
- Ratios: 3 – 1000:1
- Frame size: 50 – 150 mm
- Backlash: less than 8 arc minutes
- Efficiencies: 92%

SPL Series: Planetary inline gear reducers that pack great performance at a great price
- Ratios: 3 – 100:1
- Frame size: 60 – 180 mm
- Backlash: less than 3 arc minutes
- Efficiencies: 95%

Dyna Series: The only right angle hypoid gear reducer up to 15:1 in a single stage
- Ratios: 3 – 150:1
- Frame size: 55 – 190 mm
- Backlash: less than 1 arc minutes
- Efficiencies: up to 96%

For more information about GAM please visit www.gamweb.com