**COUPLINGS**

Flexible Double Disc Shaft Coupling
Backlash Free, Clamp Fixing: 0.7 - 25Nm, 5 - 30mm Bores

---

### Materials

- **Hub:** Anodized Aluminium A2017
- **Spacer:** Anodized Aluminium A2017
- **Disc:** Stainless Steel 304.
- **Pin:** Stainless Steel 303.
- **Collar:** Stainless Steel 303.
- **Cap Screw:** SCM435, black oxide coating.

### Performance

- Maximum Operating Temperature: 100°C (approx).

### Ordering

Add bore size required to end of part number eg. MDW-32C-8-10 (bored Ø8mm & Ø10mm).

---

### Extras

- Boring Out, Pin Holes, Tapped Holes.
- Keyways available subject to a minimum order quantity of 5 pieces POA, due to being pre-formed prior to assembly.
- Keyways may be slotted after assembly but Ondrives do not offer this service.

### Features

- For use with servo motors and stepper motors.
- Zero backlash.
- High Torsional Stiffness.
- Double stainless discs absorb parallel & angular misalignment and shaft end play.
- Very good absorption of misalignment.
- Identical clockwise & counter-clockwise rotational characteristics.
- Maintenance free, excellent resistance to oil and chemicals.
- Stock cap screws may be replaced with Stainless Steel screws.
- Recommended tolerances on shaft diameters is h6 and h7.
- Minimal effect on response in static torsional stiffness caused by temperature, though operating at high temperatures may lead to misalignment due to shaft distortion or elongation from thermal expansion.

---

### Table: Performance Data

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Wrench Torque Nm</th>
<th>Rated Torque Nm</th>
<th>Max. Torque* Nm</th>
<th>Max. Speed rpm</th>
<th>Moment of Inertia* kg•m²</th>
<th>Static Torsional Stiffness Nm/rad</th>
<th>Errors of Eccentricity</th>
<th>Errors of Angularity</th>
<th>Errors of Shaft End-Play mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDW-19C</td>
<td>0.5</td>
<td>0.7</td>
<td>1.5</td>
<td>33,000</td>
<td>8.7 x 10^-4</td>
<td>200</td>
<td>0.12</td>
<td>1.5°</td>
<td>± 0.5</td>
</tr>
<tr>
<td>MDW-25C</td>
<td>1.0</td>
<td>1.0</td>
<td>2.0</td>
<td>25,000</td>
<td>2.7 x 10^-4</td>
<td>450</td>
<td>0.12</td>
<td>1.5°</td>
<td>± 0.5</td>
</tr>
<tr>
<td>MDW-32C</td>
<td>1.5</td>
<td>2.5</td>
<td>5.0</td>
<td>19,000</td>
<td>9.6 x 10^-4</td>
<td>1,100</td>
<td>0.15</td>
<td>1.5°</td>
<td>± 0.5</td>
</tr>
<tr>
<td>MDW-40C</td>
<td>2.5</td>
<td>3.5</td>
<td>7.0</td>
<td>15,000</td>
<td>1.9 x 10^-3</td>
<td>1,400</td>
<td>0.15</td>
<td>1.5°</td>
<td>± 0.5</td>
</tr>
<tr>
<td>MDW-50C</td>
<td>7.0</td>
<td>9.0</td>
<td>18.0</td>
<td>12,000</td>
<td>8.1 x 10^-3</td>
<td>2,200</td>
<td>0.15</td>
<td>1.5°</td>
<td>± 0.5</td>
</tr>
<tr>
<td>MDW-63C</td>
<td>12.0</td>
<td>12.5</td>
<td>25.0</td>
<td>10,000</td>
<td>2.1 x 10^-4</td>
<td>3,000</td>
<td>0.15</td>
<td>1.5°</td>
<td>± 0.5</td>
</tr>
</tbody>
</table>

### Table: Part Number Details

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Min. Bores ØD1 ØD2</th>
<th>Max. Bores ØD1 ØD2</th>
<th>ØA</th>
<th>L</th>
<th>W</th>
<th>ØE</th>
<th>F</th>
<th>G</th>
<th>M</th>
<th>Mass g</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDW-19C</td>
<td>4</td>
<td>8</td>
<td>19</td>
<td>8</td>
<td>27</td>
<td>8.5</td>
<td>2.5</td>
<td>6.5</td>
<td>M2</td>
<td>18</td>
</tr>
<tr>
<td>MDW-25C</td>
<td>6</td>
<td>12</td>
<td>25</td>
<td>10</td>
<td>31</td>
<td>12.5</td>
<td>3.5</td>
<td>9.0</td>
<td>M2.5</td>
<td>25</td>
</tr>
<tr>
<td>MDW-32C</td>
<td>8</td>
<td>15</td>
<td>32</td>
<td>12</td>
<td>40</td>
<td>16.0</td>
<td>4.0</td>
<td>11.0</td>
<td>M3</td>
<td>60</td>
</tr>
<tr>
<td>MDW-40C</td>
<td>8</td>
<td>20</td>
<td>40</td>
<td>14</td>
<td>44</td>
<td>21.0</td>
<td>5.0</td>
<td>15.0</td>
<td>M4</td>
<td>100</td>
</tr>
<tr>
<td>MDW-50C</td>
<td>14</td>
<td>25</td>
<td>50</td>
<td>18</td>
<td>57</td>
<td>26.0</td>
<td>6.0</td>
<td>18.0</td>
<td>M5</td>
<td>210</td>
</tr>
<tr>
<td>MDW-63C</td>
<td>15</td>
<td>30</td>
<td>63</td>
<td>20</td>
<td>61</td>
<td>35.0</td>
<td>7.0</td>
<td>24.0</td>
<td>M6</td>
<td>340</td>
</tr>
</tbody>
</table>

---

**ondrives.us**  
1-888-260-7466  
sales@ondrivesus.com  
516-771-6444  
www.ondrivesus.com