OVERRUNNING CLUTCHES
MAGNA TORQUE (MTR) FOR CLUTCH COUPLINGS,
DUAL-DRIVE & TURNING GEAR

Roller-Ramp design for increased reliability and longer life.

An integral part of many Hilliard motion control products is our roller-ramp design. The use of hardened cams and precision-machined rollers maximizes service life.

There is almost no wear during freewheeling operations because rollers are free to rotate between the outer member and the inner cam. When the rollers are engaged, the load falls at random positions on the rollers. The result is superior service life and reliability. The MTR is similar to the MT design except the cam surface is reversed allowing it to be used in multi-speed/dual drive applications.

OVERRUNNING COUPLINGS
Typical applications are press ink rolls, coal feeders, press feeds, honing machines, speed reducers, bakery equipment and textile machines.

MULTI-SPEED DRIVES/DUAL DRIVES
Typical applications for dual-source drives are blowers, pumps and fans. For multi-speed drives, our overrunning clutches are ideal in such operations as conveyors and forming rolls.

The contact point between housing and rollers changes continually with each engagement. This application illustrates an inclined plane cam, but a flat cam is utilized in other applications.

SPECIFICATIONS/SIZE RANGE

<table>
<thead>
<tr>
<th>Size</th>
<th>Torque Lb-Ft</th>
<th>Torque Nm</th>
<th>Bore in.</th>
<th>Bore mm</th>
<th>O.D. in.</th>
<th>O.D. mm</th>
<th>Length in.</th>
<th>Length mm</th>
<th>Max. Speed RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smallest</td>
<td>MTR-60A</td>
<td>60</td>
<td>81</td>
<td>(6.3)</td>
<td>2-1/2</td>
<td>(54)</td>
<td>2-1/8</td>
<td>(177.8)</td>
<td>3,600</td>
</tr>
<tr>
<td>Largest</td>
<td>MTR-32000A</td>
<td>43,600</td>
<td>59,100</td>
<td>(163.5)</td>
<td>15</td>
<td>(381)</td>
<td>7</td>
<td>(177.8)</td>
<td>775</td>
</tr>
</tbody>
</table>

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