Tie Rod Cylinders
for Pushing and Positioning
Workpieces & Fixtures

• Tough, 5000 psi non-shock design for demanding industrial applications
• Bore sizes 1-1/2 to 4 inches
• Stroke lengths from 2 to 12"
• Three different mounting styles to choose from for versatility
• Standard spring loaded multiple lip vee rings supported by bronze bushing
• Steel barrel honed to a fine finish for maximum seal life
• Unique non-extrusion barrel seal design provides positive, leak-proof seal

Stocked and Distributed by Norman Equipment Company 800-323-2710
5000 psi Tie Rod Cylinders

**Tie Rod cylinder mounting styles**

### Clevis Mount – TRCM Series
- NFPA style MP1
- Allows cylinder to pivot
- Requires provision for pivoting on rod end

### Foot Mount – TRFM series
- NFPA style MS2
- Allows easy mounting with only four bolts
- Backup key included in design to ensure long life

### Flange Mount – TRFL series
- NFPA style ME5
- Allows cylinder length to be buried in machine
- Strongest, most rigid mount

**Custom build your Tie Rod cylinder**

<table>
<thead>
<tr>
<th>TR</th>
<th>CM</th>
<th>15</th>
<th>12</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Product Type</td>
<td>Mounting</td>
<td>Bore Diameter</td>
<td>Stroke</td>
<td>Cushions</td>
</tr>
<tr>
<td>TR = Tie Rod</td>
<td>CM = Clevis Mount</td>
<td>15 = 1.5&quot;</td>
<td>02 = 2&quot;</td>
<td>Blank = None</td>
</tr>
<tr>
<td></td>
<td>FM = Foot Mount</td>
<td>20 = 2.0&quot;</td>
<td>04 = 4&quot;</td>
<td>C = Cushions both ends</td>
</tr>
<tr>
<td></td>
<td>FL = Flange Mount</td>
<td>25 = 2.5&quot;</td>
<td>06 = 6&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>32 = 3.25&quot;</td>
<td>10 = 10&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>40 = 4.0&quot;</td>
<td>12 = 12&quot;</td>
<td></td>
</tr>
</tbody>
</table>

**Options**
- Cushions are available as standard options on all designs
- Accessories include rod end clevis, eyes and alignment couplers
- Custom designs including special stroke lengths and bore sizes, different mountings and rod end styles are available upon request

**Enerpac Worldwide Locations**
For a complete list of addresses see: www.enerpac.com/en-us/enerpac-locations

---
e-mail: info@enerpac.com
Internet: www.enerpac.com
Enerpac Worldwide Locations
For a complete list of addresses see: www.enerpac.com/en-us/enerpac-locations