## E-Series - Stainless Steel Screw Jack

### 25kN Translating

#### Upright EMT0025-V00

![Upright EMT0025-V00 Diagram]

#### Inverted EMT0025-J00

![Inverted EMT0025-J00 Diagram]

### Performance

<table>
<thead>
<tr>
<th>Model</th>
<th>EMT0025</th>
<th>EMR0025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (kN)</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Sustaining Capacity (kN)</td>
<td>Standard 316 Lifting Screw</td>
<td>Tension 16.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Compression 25</td>
</tr>
<tr>
<td></td>
<td>Duplex Lifting Screw</td>
<td>25</td>
</tr>
<tr>
<td>Operating Capacity (kN)</td>
<td>Standard 316 Worm Shaft</td>
<td>Tension 8.25</td>
</tr>
<tr>
<td></td>
<td>Duplex or Plated Worm Shaft with 316 Screw</td>
<td>Tension 16.5</td>
</tr>
<tr>
<td></td>
<td>Duplex or Plated Worm Shaft with Duplex Screw</td>
<td>59</td>
</tr>
<tr>
<td>Lifting Screw</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Diameter (mm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead (mm)</td>
<td>Option 1</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Option 2</td>
<td>12</td>
</tr>
<tr>
<td>Gear Ratio Option 1</td>
<td>Gear Ratio</td>
<td>6:1</td>
</tr>
<tr>
<td></td>
<td>Screw Jack Static Efficiency</td>
<td>0.201</td>
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<tr>
<td></td>
<td>Screw Jack Dynamic Efficiency</td>
<td>0.302</td>
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<tr>
<td>Gear Ratio Option 2</td>
<td>Gear Ratio</td>
<td>24:1</td>
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<tr>
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<td>Screw Jack Static Efficiency</td>
<td>0.115</td>
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<tr>
<td></td>
<td>Screw Jack Dynamic Efficiency</td>
<td>0.171</td>
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</tbody>
</table>

### Closed Height

<table>
<thead>
<tr>
<th>Model</th>
<th>EMT0025</th>
<th>EMR0025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (kN)</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Lifting Screw Lead (mm)</td>
<td>6</td>
<td>12</td>
</tr>
<tr>
<td>Turn of worm for travel of lifting screw</td>
<td>Gear Ratio 1</td>
<td>1 Turn 1mm 2mm</td>
</tr>
<tr>
<td></td>
<td>Gear Ratio 2</td>
<td>4 Turn 1mm 2mm</td>
</tr>
<tr>
<td>Maximum Through Torque (Nm)</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>Lifiting Screw Restraining Torque (Nm)</td>
<td>75</td>
<td>102</td>
</tr>
<tr>
<td>Worm Shaft Maximum Radial Load (N)</td>
<td>380</td>
<td></td>
</tr>
<tr>
<td>Maximum Input Speed (rpm)</td>
<td>1800</td>
<td></td>
</tr>
<tr>
<td>Gear Case Material</td>
<td>Stainless Steel</td>
<td></td>
</tr>
</tbody>
</table>

### Note:
- All dimensions in millimetres unless otherwise stated.
- Designs subject to change without notice.

www.powerjacks.com
**25kN Rotating**

**E-Series - Stainless Steel Screw Jack**

**Upright EMR0025-V00**

- **Stroke (mm):**
  - 1-150: 8, 20, 30, 50, 70

**Inverted EMR0025-J00**

- **Stroke (mm):**
  - 1-300: 145, 80
  - 301-600: 145, 80
  - 601-1050: 170, 105
  - 1051-1500: 195, 130

**Closed Height & Bellows Boots**

<table>
<thead>
<tr>
<th>Closed Height &quot;C&quot;</th>
<th>Threaded End</th>
<th>Top Plate</th>
<th>Clevis End</th>
<th>Fork End</th>
<th>Rod End</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Upright</td>
<td>Inverted</td>
<td>Upright</td>
<td>Inverted</td>
<td>Upright</td>
</tr>
<tr>
<td>EMT0025</td>
<td>145</td>
<td>55</td>
<td>145</td>
<td>55</td>
<td>170</td>
</tr>
</tbody>
</table>

**Column Strength**

- **Model:**
  - EMT0025

- **A:** 40
- **B:** 90
- **D:** 15
- **E:** 23
- **G:** 120

**Stroke (mm):**

- 1-150: 8, 20, 30, 50, 70

**Note:**

1. Inverted Screw Jacks - Bellows Boot Closed Height assumes screw jack mounted on a structure with thickness = 15mm
2. Inverted Screw Jacks - Recommended bellows boot mounting plate ØB x (E +5mm) thick.
3. Inverted Screw Jacks - Screw Jack mounting plate & bellows boot mounting plate are customers own supply
4. Control tapes fitted (increase outer diameter by 20mm approximately).
5. For horizontal installations with than 450 mm of stroke, internal boot guides are recommended.
6. Customers with threaded end screw jacks must provide a fixing for the unattached bellows boot collar.