E-Series - Ball Screw Jack

50kN Translating

**Upright EBT0050-U00**

- **Capacity (kN):** 50
- **Lifting Screw Diameter (mm):** 40
- **Lead Option 1:** 10mm, 20mm
- **Gear Ratio Option 1:** 6:1
- **Static Efficiency:** 0.567, 0.595
- **Dynamic Efficiency:** 0.633, 0.687
- **Max. Input Power (kW):** Gear Ratio Option 1: 3.0, Gear Ratio Option 2: 0.55
- **Start up Torque at Full Load (Nm):** Gear Ratio Option 1: 23.4, 44.6, Gear Ratio Option 2: 10.7, 20.4

**Inverted EBT0050-I00**

- **Capacity (kN):** 50
- **Lifting Screw Diameter (mm):** 40
- **Lead Option 1:** 10mm, 20mm
- **Gear Ratio Option 1:** 24:1
- **Static Efficiency:** 0.310, 0.325
- **Dynamic Efficiency:** 0.407, 0.422
- **Max. Input Power (kW):** Gear Ratio Option 1: 3.0, Gear Ratio Option 2: 0.55
- **Start up Torque at Full Load (Nm):** Gear Ratio Option 1: 23.4, 44.6, Gear Ratio Option 2: 10.7, 20.4

**Performance**

- **Maximum Through Torque (Nm):** 168
- **Lifting Screw Restraining Torque (Nm):** 88, 167
- **Worm Shaft Maximum Radial Load (N):** 740
- **Maximum Input Speed (rpm):** 1800
- **Gear Case Material:** SG Iron
- **Weight (kg) - stroke = 150mm:** EMT: 14.9, EMR: 16.54
  - **Weight (kg) - per extra 25mm stroke:** EMT: 0.32, EMR: 0.19

**Closed Height**

- **Upright**
- **Inverted**
- **Top Plate**
- **Threaded End**
- **Clevis End**
- **Fork End**
- **Rod End**

Note: All dimension in millimetres unless otherwise stated. Designs subject to change without notice.

www.powerjacks.com
Upright EBR0050-U00

Inverted EBR0050-100

Closed Height & Bellows Boots

<table>
<thead>
<tr>
<th>Closed Height °C</th>
<th>Threaded End</th>
<th>Top Plate</th>
<th>Clevis End</th>
<th>Fork End</th>
<th>Rod End</th>
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<tbody>
<tr>
<td>EBT0050</td>
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<td>185</td>
<td>65</td>
<td>210</td>
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</table>

<table>
<thead>
<tr>
<th>Stroke (mm)</th>
<th>EBT0050 with Bellows Boots</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead (mm)</td>
<td>10</td>
</tr>
<tr>
<td>1-300</td>
<td>200</td>
</tr>
<tr>
<td>301-600</td>
<td>340</td>
</tr>
<tr>
<td>601-900</td>
<td>440</td>
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<tr>
<td>901-1050</td>
<td>550</td>
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<tr>
<td>1051-1500</td>
<td>670</td>
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Model | A | B | D | E | G
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<table>
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<tr>
<th>Stroke</th>
<th>1-300</th>
<th>301-600</th>
<th>601-900</th>
<th>901-1050</th>
<th>1051-1500</th>
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<td>30</td>
<td>45</td>
<td>50</td>
<td>70</td>
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</tbody>
</table>

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.
7 Bellows boots for Rotating Screw Jacks, other sizes, stroke and materials please consult Power Jacks.