Screw Jacks and Spiral Bevel Gearboxes

- Candy Foot-Mount Screw Jack
- Candy Cubic Screw Jack
- Candy Cubic Spiral Bevel Gearbox
Screw Jacks and Spiral Bevel Gearboxes

Candy Screw Jacks transfer rotary motion into linear motion for a wide variety of industrial lifting, lowering, pushing and pulling applications. Candy Spiral Bevel Gearboxes are right-angle transmissions used to change the direction of power transmission and shaft rotation.

Candy Spiral Bevel Gearboxes feature a cubic housing, machined on all sides for flexible, accurate mounting. These right-angle gearboxes are available in six sizes, with multiple ratios and shaft configurations including two, three and four-shaft designs.

Screw jacks and bevel boxes are often found working independently of each other in a variety of industrial automation applications. They are also commonly incorporated together in lifting systems involving two or more screw jacks. Contact Candy Controls at 800-927-6776 for system assistance.

Candy Foot-Mount Screw Jack

Candy’s Foot-Mount Screw Jacks, CFJ Series, offer a low-cost solution to a wide variety of industrial lifting, lowering, pushing and pulling applications. Available in twelve sizes, these worm gear screw jacks feature a self-locking acme screw and can be ordered with a number of options and configurations, the most basic including Translating, Keyed or Rotating designs.

**Key Features**
- Translating, Keyed, and Rotating worm gear screw jacks
- Load capacity from 1,000 lbs. to 100 tons
- Heavy load taper roller bearing design
- Self-locking acme screw with maximum stroke of 6,000 mm
- Single or multiple jack systems
- Custom design available

**SPECIFICATIONS OVERVIEW**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Max Static Load (ton)</th>
<th>Max Dynamic Load (ton)</th>
<th>Screw Diameter (mm)</th>
<th>Screw Pitch (mm)</th>
<th>Available Ratios</th>
<th>Max Stroke (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFJ-0.5T</td>
<td>0.5</td>
<td>0.3</td>
<td>20</td>
<td>5</td>
<td>5:1 10:1 20:1</td>
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<td>CFJ-1T</td>
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<td>5:1 10:1 20:1</td>
<td>750</td>
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<td>CFJ-2T</td>
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<td>CFJ-3T</td>
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<td>2</td>
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<td>CFJ-5T</td>
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<td>6</td>
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<td>CFJ-10T</td>
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<td>6.4</td>
<td>45</td>
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<td>8:1 16:1 32:1</td>
<td>2500</td>
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<td>CFJ-15T</td>
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<td>8</td>
<td>8:1 16:1 32:1</td>
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<td>CFJ-20T</td>
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<td>CFJ-30T</td>
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<td>12:1 18:1 36:1</td>
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<tr>
<td>CFJ-40T</td>
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<td>10.3</td>
<td>80</td>
<td>12</td>
<td>12:1 18:1 36:1</td>
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<tr>
<td>CFJ-50T</td>
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<td>11</td>
<td>90</td>
<td>14</td>
<td>7:1 14:1 28:1</td>
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<td>CFJ-100T</td>
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<td>26</td>
<td>100</td>
<td>16</td>
<td>8:1 16:1 32:1</td>
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**OPTIONS FOR CUBIC AND FOOT-MOUNT SERIES**

**Mounting Options**
- Upright
- Inverted

**Gearbox Options**
- Double Input
- Single Input, left or right
- Motor Flange, left or right
- Hand Wheel

**Screw Options**
- Top Plate
- Threaded
- Clevis
- U-Type
- Plain
- Traveling Nut
- Protective Tube
- Bellows
Candy Cubic Screw Jack

Candy’s Cubic Screw Jack, CSJ Series, features a comprehensive line of worm gear screw jacks. The cubic gearbox housings are machined on all sides for flexible and accurate mounting. The CSJ Series is available in three versions: Translating, Keyed, and Rotating, each with a number of possible configurations and options.

**SPECIFICATIONS OVERVIEW**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Max Dynamic Load (kN)</th>
<th>Screw Diameter (mm)</th>
<th>Screw Pitch (mm)</th>
<th>Available Ratios</th>
<th>Max Stroke (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSJ-016</td>
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<td>CSJ-018</td>
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<td>18</td>
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<td>20</td>
<td>4</td>
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<td>CSJ-030</td>
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<td>30</td>
<td>6</td>
<td>6:1 24:1</td>
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<td>CSJ-040</td>
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<td>40</td>
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<td>7:1 28:1</td>
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<td>CSJ-055</td>
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<td>55</td>
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<td>CSJ-060</td>
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<td>60</td>
<td>9</td>
<td>9:1 36:1</td>
<td>3000</td>
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<tr>
<td>CSJ-070</td>
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<td>CSJ-100</td>
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<td>100</td>
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<td>10:1 40:1</td>
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<td>CSJ-120</td>
<td>500</td>
<td>120</td>
<td>14</td>
<td>14:1 56:1</td>
<td>6500</td>
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</table>

Key Features
- Translating, Keyed, and Rotating worm gear screw jacks
- Load capacity from 0.1 kN to 500 kN
- Cubic housing provides flexible, accurate mounting surfaces
- Self-locking acme screw with maximum stroke of 6,500 mm
- Single or multiple jack systems
- Custom design available

Candy Spiral Bevel Gearbox

Candy’s Spiral Bevel Gearboxes, CSB Series, feature a complete line of right-angle gearboxes. These cubic-style gearboxes are machined on all sides for flexible and accurate mounting. Available in six sizes, the CSB Series is offered in a number of shaft options including two, three and four shaft configurations. Standard ratio is 1:1, and ratios can be ordered up to 5:1.

**SPECIFICATIONS OVERVIEW**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Rated Torque (Nm)</th>
<th>Shaft Diameter (mm)</th>
<th>Mounting Holes (mm)</th>
<th>Base to Center Height (mm)</th>
<th>Max Speed (rpm)</th>
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</thead>
<tbody>
<tr>
<td>CSB-065</td>
<td>11.6 - 18.6</td>
<td>12</td>
<td>45</td>
<td>32.5</td>
<td>1450</td>
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<tr>
<td>CSB-090</td>
<td>33.8 - 53</td>
<td>18</td>
<td>70</td>
<td>45</td>
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<td>CSB-120</td>
<td>86 - 137.5</td>
<td>25</td>
<td>100</td>
<td>60</td>
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<td>CSB-160</td>
<td>275 - 398.2</td>
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<td>80</td>
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<td>CSB-200</td>
<td>476 - 787.8</td>
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<td>160</td>
<td>100</td>
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<td>CSB-260</td>
<td>1005 - 1833.5</td>
<td>60</td>
<td>210</td>
<td>130</td>
<td>1450</td>
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</tbody>
</table>

Key Features
- Cubic design features flexible, accurate mounting
- 6 sizes available
- Ratio 1:1, 1:1.5, 2:1, 3:1, 4:1, 5:1 and inverse
- 2, 3 and 4-shaft configurations
- Spiral bevel gear design offers 95% efficiency
Customers all over the world are using Candy’s innovative motion control products to make on-the-fly rotary position and timing adjustments for a wide variety of manufacturing applications. Candy’s precision differential gearboxes, servo reducers and zero-backlash couplings play a critical role in process optimization. Candy Mfg. Co. has a 50-year tradition of engineering excellence – instilled from the beginning by founder Bob Hendershot and continuing through the current day. Candy offers only the highest quality automation products and adds value to its clients through innovation, supported by professional application engineering and excellent customer service.

**Accu-Gear®**
Planetary servo reducers and spiral bevel gearboxes
- In-line and right-angle gearboxes
- Ratios from 1:1 up to 500:1
- Drop-in sizes for leading manufacturers

**Harmonic Differential**
Shaft-mounted differential gearbox features compact, high-torque design
- 1:1 shaft-mounted phase transmission
- Precise rotary position and speed trimming control
- Low backlash for optimal performance

**Candy Differential**
Foot-mounted differential gearbox featuring a modular design for ultimate flexibility
- 1:1 counter-rotating differential gearbox
- Infinite, bi-directional rotary position control
- Right-angle and shaft-reversing gearboxes available

**Coup-Link®**
Beam, Bellows, Disc, Jaw and Oldham Couplings
- Zero-backlash, flexible-shaft couplings
- Aluminum and stainless steel options
- Inch and metric bores available from inventory

**Dynamic Differential**
1:1 phase shifting differential for precise rotary motion control

**Candy Positioner**
1:1 phase transmission with same shaft rotation, provides 400° of precise rotary adjustment

**Phase Variator**
1:1 phase transmission provides full 0-360° range of position control

**Phasing Hub**
Static phase adjusting coupling with bi-directional adjustment

**Timing Hub**
Static phase adjusting coupling for 360° of positioning of rotating machine components

**Candy Switch**
Cam switch providing dynamic circuit timing and dwell control

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