JTM Series
Worm Screw Jack
Contents

Introduction............................................................................................................. 3

Order Code.............................................................................................................. 4 - 7

General Technical Data........................................................................................... 8

Permissible Buckling Force................................................................................... 9 - 12

Performance Tables................................................................................................ 13 - 18

Assembly Drawing Dimensions............................................................................. 19 - 24

Configuration of Screw Jack System.................................................................... 25 - 30

About Us.................................................................................................................. 31 - 33

Contact Us............................................................................................................... 34
Introduction

Jacton JTM series worm screw jack in classic design (also known as a classic type screw jacks, a classic design screw jack, a classic worm gear screw jack) are used for pushing, pulling, lifting, lowering, open, closing, traversing and swinging applications. Due to the classic design, you don't need to attach any construction elements to the housing. In the absence of vibration load, they have self locking and precisely position loads, will hold loads without backdriving, and no need any brake mechanism or locking system. Can be mounted in any attitude. Generally maintenance free.

The JTM series worm screw jack are available in 6 sizes from JTM10 to JTM200, start from a load capacity of 10 kN and can lift up to 200 kN. Customized 300 kN, 500 kN, 750 kN, 1000 kN load capacity jacks. Each with a translating screw version (translating screw jacks), keyed screw for anti-rotation version (keyed screw jacks) and a rotating screw with travelling nut version (rotating screw jacks). Worm (or input shaft) is right angled drives to the lifting screw by a hand wheel with crank handle rotate (manual screw jack) or by a motor drive (motorized screw jack). The JTM series worm screw jack can be applied either individually use or combined into a lifting system, linked by connecting shafts, couplings, bevel gearboxes, c-face motor adapters, limit switches, geared motor and couplings etc. Can be used as alternatives to hydraulic and pneumatic systems.

The JTM series worm screw jack incorporates a heat treatment standard C45 steel worm shaft which drives a high strength bronze worm gear. The worm shaft is supported on anti-friction tapered roller bearings with external seals provided to prevent loss of lubrication. Lubrication with synthetic grease ep2 lithium grease. The worm gear is supported on anti-friction tapered roller bearings. Rotation of the worm gear causes the acme thread lifting screw to translate or rotate, depending upon jack configuration. The jack housing is made of ductile iron and proportioned to support the rate capacity of the unit. The lifting screw is made of standard C45 steel.

Upright and inverted type JTM series worm screw jack. Standard acme screw end types such as I=top plate (fixing flange), II=clevis end (pivot bearing end), III=plain end, IV=threaded end, VI=fork end, VII=rod end. Accessories includes Couplings, Universal joints, Telescopic universal joints, Connecting shafts, Hand wheels, Pillow blocks, Flange blocks, Rod ends, Linear guides and bearings, spring covers, Bellows boot, Protection tubes, Trunnion adapter plates and trunnion mounting brackets, Motor flanges, Worm gear reducers, Helical gear reducers, Electric motors, Stepper motors, Servo motors, DC motors, encoders, limit switches, inverters, Position indicators, Stop nuts, Safety nuts.
1. Sizes
JTM10, JTM25, JTM50, JTM100, JTM150, JTM200

2. Configuration and Designs
US = Upright Translating Screw Design
UK = Upright Keyed Screw Design
UR = Upright Rotating Screw Design
IS = Inverted Translating Screw Design
IK = Inverted Keyed Screw Design
IR = Inverted Rotating Screw Design

Note: The trapezoidal screw of a translating screw design jack must be attached to the load (guided) which prevents the trapezoidal screw from rotating. Add linear guides, rails or rolls are recommended.

Note: If your application involves a load which is unattached, unguided or the load is free to rotate and not translate, then a keyed screw design jack are required to prevent trapezoidal screw rotation (not recommended)

3. Stroke (mm)
There are no standard travel length and all JTM series worm screw jack travel length are built with customers required.

Note: If compressive loads, must consider the trapezoidal screw permissible buckling load.
4. Gear Ratios

<table>
<thead>
<tr>
<th>Model</th>
<th>High Ratio</th>
<th>Eff. %</th>
<th>Travel (mm), Per Turn of Input Shaft</th>
<th>Slow Ratio</th>
<th>Eff.%</th>
<th>Travel (mm), Per Turn of Input Shaft</th>
</tr>
</thead>
<tbody>
<tr>
<td>JTM10</td>
<td>5:1</td>
<td>19</td>
<td>0.80</td>
<td>20:1</td>
<td>10</td>
<td>0.20</td>
</tr>
<tr>
<td>JTM25</td>
<td>6:1</td>
<td>19</td>
<td>0.83</td>
<td>24:1</td>
<td>10</td>
<td>0.21</td>
</tr>
<tr>
<td>JTM50</td>
<td>6:1</td>
<td>20</td>
<td>1.33</td>
<td>24:1</td>
<td>12</td>
<td>0.33</td>
</tr>
<tr>
<td>JTM100</td>
<td>8:1</td>
<td>20</td>
<td>1.25</td>
<td>24:1</td>
<td>13</td>
<td>0.42</td>
</tr>
<tr>
<td>JTM150</td>
<td>8:1</td>
<td>18</td>
<td>1.25</td>
<td>24:1</td>
<td>13</td>
<td>0.42</td>
</tr>
<tr>
<td>JTM200</td>
<td>8:1</td>
<td>18</td>
<td>1.50</td>
<td>24:1</td>
<td>13</td>
<td>0.50</td>
</tr>
</tbody>
</table>

5. Screw End Conditions

Standard trapezoidal screw end conditions include I=top plate, II=clevis end, III=plain end, IV=threaded end, VI=fork end, VII=rod end, and no screw end with full threads trapezoidal screw.
6. Worm (Input Shaft) Types & Motor Flange Input Types

A=Left side shaft   B=Right side shaft   C=Double input shaft
M1= Left side shaft, Right side motor flange
M2= Right side motor flange
M3= Right side shaft, Left side motor flange
M4= Left side motor flange

Note: Motor flange input types, if need to purchase the motor from us, your purchase orders must be marked. Otherwise, we only sale screw jack with motor flange.
7. Screw Jack Accessories

JTM series worm screw jack with a comprehensive range of accessories like FC=Flex couplings, UJ=Universal joints, TUJ=Telescopic universal joints, CS=Connecting shafts, HW=Hand wheels, PB=Pillow blocks, FB=Flange blocks, RE=Rod ends, LSB=Linear shafts and bearings, LGB=Linear guides and bearings, TSC=Telescopic spring covers, BB=Bel lows boot, PP=Protection tubes, TAP=Trunnion adapter plates, TMB=Trunnion mounting brackets, MF=Motor flanges, WGR=Worm gear speed reducers, HGR=Helical gear reducers, EM=Single phase or three phase induction motors, STM=Stepper motors, SEM=Servo motors, DCGM=DC geared motors, REN=Rotary encoders, LS=Travel limit switches, FIN=Frequency inverters, PIN=Position indicators, SN=Stop nuts, TN=Travel nuts, SNU=Safety nuts.
## General Technical Data

<table>
<thead>
<tr>
<th>Model</th>
<th>JTM10</th>
<th>JTM25</th>
<th>JTM50</th>
<th>JTM100</th>
<th>JTM150</th>
<th>JTM200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Static loads (kN)</td>
<td>10</td>
<td>25</td>
<td>50</td>
<td>100</td>
<td>150</td>
<td>200</td>
</tr>
<tr>
<td>Screw sizes (mm)</td>
<td>Tr 20x4</td>
<td>Tr 26x5</td>
<td>Tr 40x8</td>
<td>Tr 50x10</td>
<td>Tr 55x10</td>
<td>Tr 65x12</td>
</tr>
<tr>
<td>Gear ratio-H</td>
<td>5:1</td>
<td>6:1</td>
<td>6:1</td>
<td>8:1</td>
<td>8:1</td>
<td>8:1</td>
</tr>
<tr>
<td>Travel (mm), per turn of input shaft-H</td>
<td>0.80</td>
<td>0.83</td>
<td>1.33</td>
<td>1.25</td>
<td>1.25</td>
<td>1.50</td>
</tr>
<tr>
<td>Eff. %-H</td>
<td>19</td>
<td>19</td>
<td>20</td>
<td>20</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>Gear ratio-L</td>
<td>20:1</td>
<td>24:1</td>
<td>24:1</td>
<td>24:1</td>
<td>24:1</td>
<td>24:1</td>
</tr>
<tr>
<td>Travel (mm), per turn of input shaft-L</td>
<td>0.20</td>
<td>0.21</td>
<td>0.33</td>
<td>0.42</td>
<td>0.42</td>
<td>0.50</td>
</tr>
<tr>
<td>Eff. %-L</td>
<td>10</td>
<td>10</td>
<td>12</td>
<td>13</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Idling torque (N.m)</td>
<td>0.29</td>
<td>0.62</td>
<td>1.4</td>
<td>2.0</td>
<td>2.6</td>
<td>3.9</td>
</tr>
<tr>
<td>Max. permissible input power (kW)-H</td>
<td>0.49</td>
<td>1.0</td>
<td>2.0</td>
<td>2.8</td>
<td>3.1</td>
<td>5.0</td>
</tr>
<tr>
<td>Max. permissible input power (kW)-L</td>
<td>0.36</td>
<td>0.46</td>
<td>0.63</td>
<td>1.4</td>
<td>2.2</td>
<td>3.2</td>
</tr>
<tr>
<td>Max. permissible torque (N.m) of worm</td>
<td>19.6</td>
<td>49.0</td>
<td>153.9</td>
<td>292</td>
<td>292</td>
<td>292</td>
</tr>
<tr>
<td>Required torque (N.m) of worm at max. Loads-H</td>
<td>6.2</td>
<td>16.1</td>
<td>48.7</td>
<td>90.7</td>
<td>149.0</td>
<td>238.1</td>
</tr>
<tr>
<td>Required torque (N.m) of worm at max. Loads-L</td>
<td>2.9</td>
<td>7.1</td>
<td>20.0</td>
<td>45.3</td>
<td>72.3</td>
<td>124.0</td>
</tr>
<tr>
<td>Rotational torque (N.m) of screw at max. loads</td>
<td>20.1</td>
<td>65.1</td>
<td>201.5</td>
<td>503.6</td>
<td>813.2</td>
<td>1287.7</td>
</tr>
</tbody>
</table>

H: High Ratio, L: Slow Ratio
Permissible Buckling Force

Thin trapezoidal screws may buckle sideways when subjected to compressive loads. Before the permissible compressive force is defined for the trapezoidal screw, allowance must be made for safety factors as appropriate to the installation.

Euler I: Unguided Gearbox is Foot-Mounted Load is Free
Euler II: Guided Gearbox is Foot-Mounted Load is Fixed or Swivel-Mounted
**Euler II: Guided, Gearbox is Foot-Mounted, Load is Fixed or Swivel-Mounted**

<table>
<thead>
<tr>
<th>JTM200</th>
<th>JTM150</th>
<th>JTM100</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>100</td>
<td>50</td>
</tr>
<tr>
<td>JTM50</td>
<td>JTM25</td>
<td>JTM10</td>
</tr>
<tr>
<td>10.0</td>
<td>1.00</td>
<td>0.50</td>
</tr>
</tbody>
</table>

Supporting Length of Shaft L (mm)

- 50  100  500  1000  3000
- 200 100  50  10.0  0.50
Euler I: Unguided, Gearbox is Foot-Mounted, Load is Free

Supporting Length of Shaft L (mm) vs. Permissible Buckling Load (kN)

- JTM200
- JTM150
- JTM100
- JTM50
- JTM25
- JTM10
## Performance Tables

### JTM10 – Tr 20x4

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value 1</th>
<th>Value 2</th>
<th>Gear Ratio</th>
<th>Value 3</th>
<th>Value 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Load Capacity (kN)</td>
<td>10</td>
<td>10</td>
<td>H</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Outer Screw Diameter (MM)</td>
<td>20</td>
<td></td>
<td>L</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Root Screw Diameter (MM)</td>
<td>14.8</td>
<td></td>
<td>H</td>
<td>0.8</td>
<td></td>
</tr>
<tr>
<td>Screw Lead (MM)</td>
<td>4</td>
<td></td>
<td>L</td>
<td>0.2</td>
<td></td>
</tr>
<tr>
<td>Overall Efficiency %</td>
<td>H</td>
<td>21</td>
<td>Maximum Allowable Input Power (kW)</td>
<td>H</td>
<td>0.49</td>
</tr>
<tr>
<td></td>
<td>L</td>
<td>12</td>
<td>L</td>
<td>0.36</td>
<td></td>
</tr>
<tr>
<td>Maximum Input Speed (RPM)</td>
<td>H</td>
<td>1500</td>
<td>Required Input Torque For Maximum Load Capacity (Nm)</td>
<td>H</td>
<td>6.2</td>
</tr>
<tr>
<td></td>
<td>L</td>
<td>1500</td>
<td>L</td>
<td>2.9</td>
<td></td>
</tr>
<tr>
<td>Maximum Input Speed For Maximum Load Capacity (RPM)</td>
<td>H</td>
<td>750</td>
<td>No-load Torque (Nm)</td>
<td>L</td>
<td>0.29</td>
</tr>
<tr>
<td></td>
<td>L</td>
<td>1200</td>
<td>Maximum Allowable Input Torque For Input Shaft Only (Nm)</td>
<td>H</td>
<td>19.6</td>
</tr>
<tr>
<td>Screw Shaft Rotational Torque For Maximum Load Capacity (Nm)</td>
<td></td>
<td></td>
<td>L</td>
<td>20.1</td>
<td></td>
</tr>
</tbody>
</table>

1. Conditions: within 20% running time/60 minutes or within 30% running time/10 minutes, 20°C ambient temperature.
2. Note: Number of synchronizing jacks which can be connected on the same line is limited by input shaft strength. Refer to the maximum allowable input shaft torque on the above table.
3. Relative humidity: 85% or less (no dew condensation).
4. Operating ambient atmosphere: Indoor Environment (Indoor room where rain and water cannot enter. Dust volume should be normal).
5. Selection of screw jacks using above figures should only be carried out in consultation with Jacton engineers.
JTM25 – Tr 26x5

<table>
<thead>
<tr>
<th>Maximum Load Capacity (kN)</th>
<th>25</th>
<th>Gear Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer Screw Diameter (MM)</td>
<td>26</td>
<td>L 24</td>
</tr>
<tr>
<td>Root Screw Diameter (MM)</td>
<td>19.7</td>
<td>Stroke per Full Turn of Input Shaft (MM)</td>
</tr>
<tr>
<td>Screw Lead (MM)</td>
<td>5</td>
<td>L 0.21</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overall Efficiency %</th>
<th>H 21</th>
<th>Maximum Allowable Input Power (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L 12</td>
<td></td>
</tr>
<tr>
<td>Maximum Input Speed (RPM)</td>
<td>H 1500</td>
<td>Required Input Torque For Maximum Load Capacity (Nm)</td>
</tr>
<tr>
<td></td>
<td>L 1500</td>
<td></td>
</tr>
<tr>
<td>Maximum Input Speed For Maximum Load Capacity (RPM)</td>
<td>H 600</td>
<td>No-load Torque (Nm)</td>
</tr>
<tr>
<td></td>
<td>L 600</td>
<td></td>
</tr>
</tbody>
</table>

1. Conditions: within 20% running time/60 minutes or within 30% running time/10 minutes, 20°C ambient temperature.
2. Note: Number of synchronizing jacks which can be connected on the same line is limited by input shaft strength. Refer to the maximum allowable input shaft torque on the above table.
3. Relative humidity: 85% or less (no dew condensation).
4. Operating ambient atmosphere: Indoor Environment (Indoor room where rain and water cannot enter. Dust volume should be normal).
5. Selection of screw jacks using above figures should only be carried out in consultation with Jacton engineers.
JTM50 – Tr 40x8

<table>
<thead>
<tr>
<th>Maximum Load Capacity (kN)</th>
<th>50</th>
<th>Outer Screw Diameter (MM)</th>
<th>40</th>
<th>Root Screw Diameter (MM)</th>
<th>30.5</th>
<th>Screw Lead (MM)</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear Ratio</td>
<td></td>
<td>H</td>
<td>L 24</td>
<td>H</td>
<td>1.33</td>
<td>L 0.33</td>
<td></td>
</tr>
<tr>
<td>Stroke per Full Turn of Input Shaft (MM)</td>
<td></td>
<td>H</td>
<td>L 0.63</td>
<td>H</td>
<td>48.7</td>
<td>L 20</td>
<td></td>
</tr>
<tr>
<td>Overall Efficiency %</td>
<td></td>
<td>H 22</td>
<td>L 14</td>
<td>H</td>
<td>2</td>
<td>L 0.63</td>
<td></td>
</tr>
<tr>
<td>Maximum Allowable Input Power (kW)</td>
<td></td>
<td>H 1500</td>
<td>L 1500</td>
<td>H</td>
<td>48.7</td>
<td>L 20</td>
<td></td>
</tr>
<tr>
<td>Required Input Torque For Maximum Load Capacity (Nm)</td>
<td></td>
<td>H 400</td>
<td>L 300</td>
<td>Maximum Allowable Input Torque For Input Shaft Only (Nm)</td>
<td>1.4</td>
<td>153.9</td>
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<tr>
<td>Screw Shaft Rotational Torque For Maximum Load Capacity (Nm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>201.5</td>
<td></td>
<td></td>
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</table>

1. Conditions: within 20% running time/60 minutes or within 30% running time/10 minutes, 20°C ambient temperature.
2. Note: Number of synchronizing jacks which can be connected on the same line is limited by input shaft strength. Refer to the maximum allowable input shaft torque on the above table.
3. Relative humidity: 85% or less (no dew condensation).
4. Operating ambient atmosphere: Indoor Environment (Indoor room where rain and water cannot enter. Dust volume should be normal).
5. Selection of screw jacks using above figures should only be carried out in consultation with Jacton engineers.
JTM100 – Tr 50x10

<table>
<thead>
<tr>
<th>Maximum Load Capacity (kN)</th>
<th>100</th>
<th>Gear Ratio</th>
<th>H</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer Screw Diameter (MM)</td>
<td>50</td>
<td></td>
<td>L</td>
<td>24</td>
</tr>
<tr>
<td>Root Screw Diameter (MM)</td>
<td>38.4</td>
<td>Stroke per Full Turn of Input Shaft (MM)</td>
<td>H</td>
<td>1.25</td>
</tr>
<tr>
<td>Screw Lead (MM)</td>
<td>10</td>
<td></td>
<td>L</td>
<td>0.42</td>
</tr>
<tr>
<td>Overall Efficiency %</td>
<td></td>
<td>Maximum Allowable Input Power (kW)</td>
<td>H</td>
<td>2.8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>L</td>
<td>1.4</td>
</tr>
<tr>
<td>Maximum Input Speed (RPM)</td>
<td></td>
<td>Required Input Torque For Maximum Load Capacity (Nm)</td>
<td>H</td>
<td>90.7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>L</td>
<td>45.3</td>
</tr>
<tr>
<td>Maximum Input Speed For Maximum Load Capacity (RPM)</td>
<td>H</td>
<td>300</td>
<td>No-load Torque (Nm)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>L</td>
<td>300</td>
</tr>
<tr>
<td>Screw Shaft Rotational Torque For Maximum Load Capacity (Nm)</td>
<td>503.6</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Conditions: within 20% running time/60 minutes or within 30% running time/10 minutes, 20°C ambient temperature.
2. Note: Number of synchronizing jacks which can be connected on the same line is limited by input shaft strength. Refer to the maximum allowable input shaft torque on the above table.
3. Relative humidity: 85% or less (no dew condensation).
4. Operating ambient atmosphere: Indoor Environment (Indoor room where rain and water cannot enter. Dust volume should be normal).
5. Selection of screw jacks using above figures should only be carried out in consultation with Jacton engineers.
1. Conditions: within 20% running time/60 minutes or within 30% running time/10 minutes, 20°C ambient temperature.

2. Note: Number of synchronizing jacks which can be connected on the same line is limited by input shaft strength. Refer to the maximum allowable input shaft torque on the above table.

3. Relative humidity: 85% or less (no dew condensation).

4. Operating ambient atmosphere: Indoor Environment (Indoor room where rain and water cannot enter. Dust volume should be normal).

5. Selection of screw jacks using above figures should only be carried out in consultation with Jacton engineers.
### JTM200 – Tr 65x12

<table>
<thead>
<tr>
<th>Maximum Load Capacity (kN)</th>
<th>200</th>
<th>Gear Ratio</th>
<th>H</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer Screw Diameter (MM)</td>
<td>65</td>
<td>L</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Root Screw Diameter (MM)</td>
<td>51.3</td>
<td>H</td>
<td>1.5</td>
<td></td>
</tr>
<tr>
<td>Screw Lead (MM)</td>
<td>12</td>
<td>L</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td>Overall Efficiency %</td>
<td></td>
<td>H</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>L</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum Allowable Input Power (kW)</td>
<td>H</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>L</td>
<td>3.2</td>
<td></td>
</tr>
<tr>
<td>Maximum Input Speed (RPM)</td>
<td></td>
<td>H</td>
<td>1500</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>L</td>
<td>124</td>
<td></td>
</tr>
<tr>
<td>Maximum Input Speed For Maximum Load Capacity (RPM)</td>
<td></td>
<td>H</td>
<td>200</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>L</td>
<td>250</td>
<td></td>
</tr>
<tr>
<td></td>
<td>No-load Torque (Nm)</td>
<td>3.9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum Allowable Input Torque For Input Shaft Only (Nm)</td>
<td>292</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Screw Shaft Rotational Torque For Maximum Load Capacity (Nm)</td>
<td>1287.7</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Conditions: within 20% running time/60 minutes or within 30% running time/10 minutes, 20°C ambient temperature.
2. Note: Number of synchronizing jacks which can be connected on the same line is limited by input shaft strength. Refer to the maximum allowable input shaft torque on the above table.
3. Relative humidity: 85% or less (no dew condensation).
4. Operating ambient atmosphere: Indoor Environment (Indoor room where rain and water cannot enter. Dust volume should be normal).
5. Selection of screw jacks using above figures should only be carried out in consultation with Jacton engineers.
Assembly Drawing Dimensions

<table>
<thead>
<tr>
<th>JTM10 – Tr 20x4</th>
</tr>
</thead>
</table>

Note: dimensions are subject to change without notice.

1. This dimension refers to the closed height and represents a minimum. It must be increased if bellows and boots are used.

2. About 2D Autocad dwg, dxf assembly drawing dimensions, and 3D stp, step, model, igs, prt or catpart assembly drawings, please contact Jacton sales engineers directly.
Note: dimensions are subject to change without notice.

1. This dimension refers to the closed height and represents a minimum. It must be increased if bellows and boots are used.

2. About 2D Autocad dwg, dxf assembly drawing dimensions, and 3D stp, step, model, igs, prt or catpart assembly drawings, please contact Jacton sales engineers directly.
JTM50 – Tr 40x8

Note: dimensions are subject to change without notice.

1. This dimension refers to the closed height and represents a minimum. It must be increased if bellows and boots are used.

2. About 2D Autocad dwg, dxf assembly drawing dimensions, and 3D stp, step, model, igs, prt or catpart assembly drawings, please contact Jacton sales engineers directly.
JTM100 – Tr 50x10

Translating Screw  Rotating Screw

Note: dimensions are subject to change without notice.

1. This dimension refers to the closed height and represents a minimum. It must be increased if bellows and boots are used.

2. About 2D Autocad dwg, dxf assembly drawing dimensions, and 3D stp, step, model, igs, prt or catpart assembly drawings, please contact Jacton sales engineers directly.
JTM150 – Tr 55x10

Translating Screw

Rotating Screw

Note: dimensions are subject to change without notice.

1. This dimension refers to the closed height and represents a minimum. It must be increased if bellows and boots are used.

2. About 2D Autocad dwg, dxf assembly drawing dimensions, and 3D stp, step, model, igs, prt or catpart assembly drawings, please contact Jacton sales engineers directly.
JTM200 – Tr 65x12

Note: dimensions are subject to change without notice.

1. This dimension refers to the closed height and represents a minimum. It must be increased if bellows and boots are used.

2. About 2D Autocad dwg, dxf assembly drawing dimensions, and 3D stp, step, model, igs, prt or catpart assembly drawings, please contact Jacton sales engineers directly.
Configuration of Screw Jack System

Two Screw Jacks – Lifting System Configuration:

* **I** - Configuration: two screw jacks arrangement, three flexible couplings, one connecting shaft, one motor or one handwheel.

* **L** - Configuration: two screw jacks arrangement, one 3 way bevel gearbox, four flexible couplings, one connecting shaft, one motor or one handwheel.

* **T** - Configuration: two screw jacks arrangement, one 3 way bevel gearbox, five flexible couplings, two connecting shafts, one motor or one handwheel.

* **TI** - Configuration: two screw jacks arrangement, one 3 way bevel gearbox, five flexible couplings, two connecting shafts, one motor or one handwheel.

Note: when connecting shafts length is exceed maximum distance of between supports, pillow blocks are required.

Note: 2-jacks lifting systems efficiency 95%. When calculations, don't ignore bevel gearbox efficiency 94%, helical gearmotors efficiency 94%, idling torque etc…
Three Screw Jacks – Lifting System Configuration:

* **I**: three jacks, five couplings, two connecting shafts, one motor.
* **L**: three jacks, one bevel gearbox, six couplings, two connecting shafts, one motor.
* **T**: three jacks, one bevel gearbox, six couplings, two connecting shafts, one motor.
* **TL**: three jacks, one bevel gearbox, six couplings, two connecting shafts, one motor.
* **TI**: three jacks, one bevel gearbox, seven couplings, three connecting shafts, one motor.
* **TT**: three jacks, two bevel gearboxes, nine couplings, four connecting shafts, one motor.

Note: when connecting shafts length is exceed maximum distance of between supports, pillow blocks are required.

Note: 3-jacks lifting systems efficiency 90%. When calculations, don't ignore bevel gearbox efficiency 94%, helical gearmotors efficiency 94%, idling torque etc…
Four Screw Jacks – Lifting System Configuration:

* **U** - Configuration: four screw jacks arrangement, three 3-way bevel gear boxes, eleven flexible couplings, four connecting shafts, one motor or one handwheel.

* **H** - Configuration: four screw jacks arrangement, three 3-way bevel gear boxes, thirteen flexible couplings, six connecting shafts, one motor or one handwheel.

* **HI** - Configuration: four screw jacks arrangement, two 3-way bevel gear boxes, eleven flexible couplings, five connecting shafts, one motor or one handwheel.

* **UI** - Configuration: four screw jacks arrangement, two 3-way bevel gear boxes, nine flexible couplings, three connecting shafts, one motor or one handwheel.

Note: when connecting shafts length is exceed maximum distance of between supports, pillow blocks are required.

Note: 4-jacks lifting systems efficiency 85%. When calculations, don't ignore bevel gearbox efficiency 94%, helical gearmotors efficiency 94%, idling torque etc…
Four Screw Jacks – Lifting System Configuration:
* **T** - Configuration: four screw jacks arrangement, one 3-way bevel gear box, nine flexible couplings, four connecting shafts, one motor or one handwheel.
* **TT** - Configuration: four screw jacks arrangement, one 4-way bevel gear box, nine flexible couplings, four connecting shafts, one motor or one handwheel.

Note: when connecting shafts length is exceed maximum distance of between supports, pillow blocks are required.

Note: 4-jacks lifting systems efficiency 85%. When calculations, don't ignore bevel gearbox efficiency 94%, helical gearmotors efficiency 94%, idling torque etc.
Six Screw Jacks – Lifting System Configuration:

* **H** - Configuration: six screw jacks arrangement, three 3-way bevel gearboxes, fifteen flexible couplings, six connecting shafts, one motor or one handwheel.

* **U** - Configuration: six screw jacks arrangement, three 3-way bevel gearboxes, fifteen flexible couplings, six connecting shafts, one motor or one handwheel.

* **HH** - Configuration: six screw jacks arrangement, three 4-way bevel gearboxes, seventeen flexible couplings, eight connecting shafts, one motor or one handwheel.

Note: when connecting shafts length is exceed maximum distance of between supports, pillow blocks are required.

Note: 6-jacks lifting systems efficiency 80%. When calculations, don't ignore bevel gearbox efficiency 94%, helical gearmotors efficiency 94%, idling torque etc.
Eight Screw Jacks – Lifting System Configuration:

* H - Configuration: eight screw jacks arrangement, three 3-way bevel gearboxes, twenty-one flexible couplings, ten connecting shafts, one motor or one handwheel.

* HH - Configuration: eight screw jacks arrangement, seven 3-way bevel gearboxes, twenty-nine flexible couplings, fourteen connecting shafts, one motor or one handwheel.

Note: when connecting shafts length is exceed maximum distance of between supports, pillow blocks are required.

Note: 8-jacks lifting systems efficiency 80%. When calculations, don't ignore bevel gearbox efficiency 94%, helical gearmotors efficiency 94%, idling torque etc.
About Us

Jacton Industry Co., Ltd (VAT No.: 9144190007026567X3, registered Capital 500000CNY) is a leading manufacturer and supplier in China for screw jacks (mechanical actuators), bevel gearboxes, screw jacking systems and accessories, linear actuators, gearmotor, and speed reducers, and other linear motion and power transmission products. We are Alibaba, Made-In-China and SGS (Serial NO.: QIP-AS1192186) audited manufacturer and supplier. We also have a strict quality system, with senior engineers, experienced skilled workers, and practiced sales teams; we consistently provide the high-quality equipment to meet the customers' electro-mechanical actuation, lifting, and positioning needs. Jacton Industry guarantees quality, reliability, performance, and value for today's demanding industrial applications.

Advantages

1. International standard materials for all Jacton brand products. We insist on choosing brand suppliers to supply the high-quality raw materials to control the producing process. Optimization constantly the production processes, inspecting in each link and managing production sites.
2. 100% quality assured with double quality inspections. The quality inspection by quality inspectors from processing to finished products as the first time. Before packing, the corresponding sales engineers must inspect the orders following the paper drawings, order quantities, and special markings in the invoice or sales contracts as the second time.
3. 100% safety transportation. Packing with strong standard export plywood cases materials (free fumigation), inner packing with epe foams to prevent products swaying and outer packing with iron sheets and fasteners to fasten the packages.
4. International sales engineers have professional knowledge and skills on our standard products and service. They have enough ability to solve the basic technical problem immediately whatever by phone, online chat, face to face communications.
5. All the standard products with 2D CAD Drawings (PDF, DWG and DXF formats), and 3D CAD Models (STEP, STP, MODEL, IGS, PRT and CATPart formats).
6. Custom design available, OEM service available, Free engineering advice, Free quotes available and Customer label available.
7. Inspection equipments include motor with inverter drive system, height adjustment motorized lifting system, coordinate measuring machines, outside micrometers, inside micrometers, depth calipers, vernier calipers, digital calipers, hardness testers, digital noise meters, industrial infrared thermometers, digital speed measuring instruments, digital multimeters, and high precision clamp digital ammeter, etc.
8. Processing with modern advanced machines such as CNC gear hobbing machines, CNC flank grinding machines, CNC cylindrical grinding machines, multi-axis CNC milling machines, CNC lathes, and others equipments.
Products List
4. Screw Jack Systems and Accessories: two-jack system, three-jack system, four-jack system, six-jack system, and eight-jack system. Jacking systems accessories include coupling, universal joint, cardan shaft, connecting shaft, electric motor, geared motor and reducer, hand wheel with crank handle, pillow block bearing, flange block bearing, rod end bearing, stop nut, limit switch, safety nut, travel nut, linear shaft and bearing, linear guide and bearing, telescopic spring cover, bellow boot, protective tube, trunnion adapter plate, trunnion mounting bracket, motor flange, rotary encoder, potentiometer, frequency inverter and position indicator etc.
5. Linear Actuators Series: Parallel linear actuator with 3-phase AC motor, Inline linear actuator with 3-phase AC motor.

Finished Projects
1. Theatrical solutions stage and orchestra platform lifts projects. Customers are from France, Australia, Netherlands, United Kingdom, Spain and Canada.
2. Hydroelectric power station projects and water conservancy projects. Customers are from Vietnam, Australia, Malaysia, Russian Federation, Nepal, Pakistan, Belgium, United States and United Kingdom.
3. Aircraft maintenance platforms and docking systems projects. Customers are from Pakistan, Singapore and United Arab Emirates.
4. Solar panel tracking system projects. Customers are from Spain, India and Canada.
5. Bolted steel storage tanks and silos lifting solutions. Customers are from South Africa, United States, Mexico, Russian Federation, Brazil and Vietnam.
6. Dish antenna elevation and azimuth positioning projects. Customers are from Singapore, Malaysia and United States.
7. Railway wagon projects. Customers are from South Africa.
8. Beverage can production lines. Customers are from Netherlands, United States, Thailand and Indonesia.
9. Steel factories production lines. Customers are from Iran, United States and Turkey.
10. Continuous PU sandwich panel production lines. Customers are from Thailand and United Kingdom.
Customers Distribution Areas
1. American Countries: United States, Mexico, Canada, Chile, Bolivia, Brazil, Colombia, Dominican Republic, Honduras, Costa Rica, Panama, Puerto Rico, Jamaica, Trinidad and Tobago, Aruba, Argentina, Peru, Venezuela.
2. European Countries: Russia, Germany, Turkey, France, United Kingdom, Italy, Spain, Ukraine, Poland, Romania, Netherlands, Belgium, Greece, Czech Republic, Portugal, Sweden, Hungary, Belarus, Austria, Switzerland, Bulgaria, Denmark, Finland, Slovakia, Norway, Ireland, Croatia, Georgia, Armenia, Lithuania, Slovenia, Estonia, Cyprus, Luxembourg, Iceland.
3. Asian Countries: Malaysia, Indonesia, Singapore, Pakistan, Philippines, Vietnam, United Arab Emirates, Thailand, Saudi Arabia, Iran, Turkey, India, Nepal, Yemen, Taiwan, Sri Lanka, Israel, Jordan, Kuwait, Qatar.
4. Oceanian Countries: Australia, New Zealand, Fiji.
Contact Us

JACTON INDUSTRY CO., LTD
VAT No.9144190007026567X3
1st Floor, Building G, No. 5, Hengzhong Road, Xin An Community, Chang An, Dongguan, Guangdong, China.

Telephone
+86-769 8158 5810
+86-769 8158 5852

Email:
sales@jactonindustry.com
jactonjack@gmail.com

Ask An Expert Immediately:
Whatsapp ID: +86 135 3283 0851
Wechat ID: +86 135 3283 0851
Skype ID: jactonjack
TradeManager ID: jactonjack

JACTON INTERNATIONAL LIMITED
Registration NO.:6148376600005184
Unit 17,9/F., Tower A, New Mandarin Plaza, No.14, Science Museum Road, Tsimshatsui, Kowloon, Hongkong

Website
English PC: www.jactonindustry.com
English PC: www.jacton-screwjacks.com
Chinese PC: www.jactonindustry.cn

Mobile Website
English: http://m.jactonindustry.com
Chinese: http://m.jactonindustry.cn

English Site
Chinese Site