Screw Jack System
Introduction

Jacton provides a powerful, reliable and complete set screw jack system in reliability in use and versatility in application. The screw jack system offer simultaneously lifting and positioning design solutions for a wide variety of industries. Highly accurate and extremely reliable machine screw and ball screw jacks are matched with an extensive range of drive, connection, motion control, safety, and protection components to provide a complete package from a single source.

Compared to hydraulic lifting systems, pneumatic lifting systems, and chain lifting system, Jacton screw jack system are not only for the simple load-supporting from several kilograms to heavy duty several hundreds tons, but also have other features such as self-locking, precisely positioning, easy installation and operation, maintenance free, complete synchronization, quiet environment, motorized driven, or manual operation. The screw jack systems accessories: screw jacks(mechanical actuators), bevel gearboxes, electric motors, geared motors, gear reducer, handwheel or hand crank with handle, flex couplings, universal joints, telescopic universal joints, connecting shafts(drive shafts), pillow blocks, flange blocks, rod end bearings, linear shafts and bearings, linear guides and bearings, telescopic spring covers, bellows and boots, protection tubes, trunnion adapter plates, trunnion mounting brackets, motor flanges, rotary encoders, travel limit switches, frequency inverters, position indicators, stop nuts, travel nuts, and safety nuts.

Jacton screw jack systems are widely used in platform stage lifting screw jacks, mechanical lifting system, gearbox test platform lifting, paper, press, printing industry, gypsum factories, sheet metal forming machinery, mechanical lifting applications, platform lifting applications, food processing machinery, construction sector, bridge jacks for road and bridge lifting, shipyards, opening and closing of penstocks, industrial process, roll form machinery, mining industry, defense industry, lift tables, stage setup applications.

Screw Jack System Efficiency:
* 2 Jacks - Screw Jack System Efficiency 95%.
* 3 Jacks - Screw Jack System Efficiency 90%.
* 4 Jacks - Screw Jack System Efficiency 85%.
* 6 Jacks - Screw Jack System Efficiency 80%.
* 8 Jacks - Screw Jack System Efficiency 80%.

Note: don't ignore bevel gearboxes efficiency 95–98%.
# Configuration of Screw Jack System

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>I - Configuration</td>
<td>Two screw jacks arrangement, three flexible couplings, one connecting shaft, one motor or one handwheel.</td>
</tr>
<tr>
<td>L - Configuration</td>
<td>Two screw jacks arrangement, one 3 way bevel gearbox, four flexible couplings, one connecting shaft, one motor or one handwheel.</td>
</tr>
<tr>
<td>T - Configuration</td>
<td>Two screw jacks arrangement, one 3 way bevel gearbox, five flexible couplings, two connecting shafts, one motor or one handwheel.</td>
</tr>
<tr>
<td>TI - Configuration</td>
<td>Two screw jacks arrangement, one 3 way bevel gearbox, five flexible couplings, two connecting shafts, one motor or one handwheel.</td>
</tr>
</tbody>
</table>

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 Jacks - Screw Jack 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 Jacks - Screw Jack 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 Jacks - Screw Jack 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 Jacks – Screw Jack 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 Jacks - Screw Jack 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 500000 CNY) 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 others linear motion and power transmission products. We are Alibaba, Made-In-China and SGS (Serial NO.: QIP-ASI192186) 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 equipments 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 site.
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. Internationl 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, IGES, 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 adjustmemt 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.
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English Site
Chinese Site