



Worm Gear Screw Jack Lift systems are ruggedly designed and produced in standard models with load handling capacities from 1/4 ton to 100 tons. They may be used individually or in multiple arrangements. There are no "standard" travel lengths and all Worm Gear Screw Jack Lift systems are built to specification. Multiple Worm Gear Screw Jack Lift systems arrangements include In-Line Configuration Worm Gear Screw Jack Lift systems, H Configuration Worm Gear Screw Jack Lift systems, U Configuration Worm Gear Screw Jack Lift systems, T Configuration Worm Gear Screw Jack Lift systems.

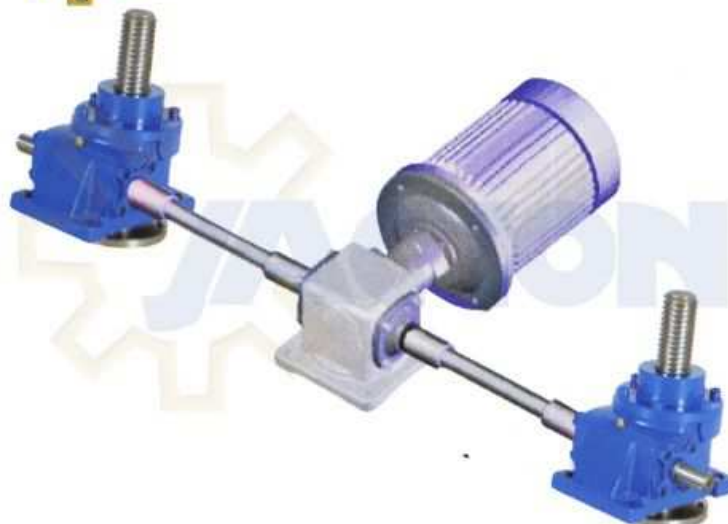
Worm Gear Screw Jack Lift systems parts include worm gear screw jacks, right angle miter gearbox, jaw type and flex type couplings, linking bars, electric motor / geared motor, When long distance between jack and jack, extra additional pillow block bearings. For lightweight and short stroke adjustment, manual operation Worm Gear Screw Jack Lift systems is available. Compared with pneumatic cylinder systems, air cylinder lift systems or hydraulic table lift system. Multiple Worm Gear Screw Jack Lift systems arrangements have heavy duty-load capacity up to several hundreds tons, self locking-no need brake mechanism or others locking systems, precision positioning-easy to control according to your own design, synchronizing lifting-multi-units uniform travel speed, easy installation, maintenance free and long service life.

Two Worm Gear Screw Jack Lift Systems Efficiency 95%

Inline Configuration Screw jack lift systems with two worm gear screw jacks, two flexible couplings, one linking bar and one motor. T Configuration Screw jack lift systems with two worm gear screw jacks, five flexible couplings, two linking bars, one right angle bevel gear box three-way and one motor.



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Three Worm Gear Screw Jack Lift Systems Efficiency 90%

Inline Configuration Screw jack lift systems with three worm gear screw jacks, five flexible couplings, two linking bar and one motor. T Configuration Screw jack lift systems with three worm gear screw jacks, nine flexible couplings, four linking bars, two right angle bevel gear boxes three-way and one motor.



Four Worm Gear Screw Jack Lift Systems Efficiency 85%

H Configuration Screw jack lift systems with four worm gear screw jacks, three right angle bevel gear boxes three-way, 13 flexible couplings, six linking bars and one motor. **U Configuration Screw jack lift systems** with four worm gear screw jacks, three right angle bevel gear boxes three-way, 11 flexible couplings, four linking bars and one motor.



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Six Worm Gear Screw Jack Lift Systems Efficiency 80%

H Configuration Six Screw jack lift systems with six worm gear screw jacks, three right angle bevel gear boxes three-way, 17 flexible couplings, eight linking bars and one motor. 2H Configuration Six Screw jack lift systems with six worm gear screw jacks, three right angle bevel gear boxes four-way, 17 flexible couplings, eight linking bars and one motor. U Configuration Six Screw jack lift systems with six worm gear screw jacks, three right angle bevel gear boxes three-way, 15 flexible couplings, six linking bars and one motor.

Eight Worm Gear Screw Jack Lift Systems Efficiency 80%

H Configuration Six Screw jack lift systems with eight worm gear screw jacks, three right angle bevel gear boxes three-way, 21 flexible couplings, 10 linking bars and one motor. 2H Configuration Six Screw jack lift systems with eight worm gear screw jacks, seven right angle bevel gear boxes three-way, 29 flexible couplings, 14 linking bars and one motor.

Worm Gear Screw Jack Lift Systems Parts 1 – Worm Gear Screw Jacks

Website: <http://www.screw-jack.com/jtw-worm-screw-jack/>

Website: <http://www.screw-jack.com/jt-acme-screw-jack/>

Website: <http://www.screw-jack.com/jtc-cubic-screw-jack/>

Website: <http://www.screw-jack.com/jtm-machine-screw-jack/>

Website: <http://www.screw-jack.com/jtb-ball-screw-jack/>



Worm Gear Screw Jack Lift Systems Parts 2 – Right Angle Bevel Gear Boxes

Website: <http://www.screw-jack.com/jt-miter-gearbox/> , <http://www.screw-jack.com/jtp-miter-gearbox/>



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Worm Gear Screw Jack Lift Systems Parts 3 – Jaw Type And Flex Type Couplings

Website: <http://www.screw-jack.com/flexible-jaw-coupling.html>



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Worm Gear Screw Jack Lift Systems Parts 4 – Linking Bars

Website: <http://www.screw-jack.com/connecting-shafts.html>



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Worm Gear Screw Jack Lift Systems Parts 5 – Pillow Block Bearings

Website: <http://www.screw-jack.com/pillow-block-bearing.html>



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Worm Gear Screw Jack Lift Systems Parts 6 – Electric Motors / Geared Motors

Website: <http://www.screw-jack.com/electric-motor.html>



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Worm Gear Screw Jack Lift Systems Parts 7 – Geared Motors

Website: <http://www.screw-jack.com/helical-gear-motor.html>



Installation Of Worm Gear Screw Jack Lift Systems:

Direction of rotation: Before starting installation work, the direction of rotation of all worm gear screw jacks, right angle bevel gear boxes and the drive motor must be checked with regard to the feed direction of each individual worm gear screw jack.

Alignment errors: All components must be carefully aligned during installation. Alignment errors and stresses increase power consumption and lead to overheating and premature wear. Before a drive unit is attached, each worm gear screw jack should be turned through its entire length by hand without load. Variations in the amount of force required and/or axial marks on the outside diameter of the screw indicate alignment errors between the worm gear screw jack and its additional guides. In this case, the relevant mounting bolts must be loosened and the worm gear screw jack turned through by hand again. If the amount of force required is now constant throughout, the appropriate components must be aligned. If not, the alignment error must be localized by loosening additional mounting bolts.

Test run: The direction of rotation of the complete system and correct operation of the limit switches must be checked again before attaching the drive motor. In the case of translating screw jack, check that the screw is lubricated with grease from the interior of the gear box and re-lubricate if necessary. In the case of travelling nut rotating screw jack, the jack screw should be coated with suitable grease to provide lubrication for lifting operation. The first test runs can then be carried out without load. A maximum operating time of 30 % can not be exceeded at trial runs under weight for worm gear screw jacks with trapezoidal screws.

Operation: The loads, speeds and operating conditions specified for the worm gear screw jacks and transmission components must not be exceeded even briefly.



Worm Gear Screw Jack Lift Systems Application Cases In Pakistan:

Per screw jack lift systems parts includes 4 pcs 5t travelling nut rotating screw jacks, 2 pcs 1:1 ratio right angle bevel gear boxes, 5 pcs linking bars, 11 pcs couplings, 4 pcs steel plates, 4 pcs flange type pillow block ball bearings, 1 electric motor and 2 sets forward & reversible switches and contractors.

The linking bars, worm shafts of jacks, input & output shafts of gear boxes, output shaft of motor must be installed and aligned. So all parts center height must be same, jt25 gear boxes are 90 mm, 1.5kw motor is 90 mm, jacks are 61.5 mm matching steel plate thickness 28.5mm, equal to 90 mm. So the main three parts center height is same with 90 mm. Easy to install them inline alignment.

The screw jack lift systems position is 1227.5x1227.5mm, included all safety factors, max. loading capacity 1500kg, travel stroke up to 2068.5 mm, after calculation, lifting screw total length 2282.5 mm. Lifting speed about 415 mm/min. Because lifting screw is very long, assured the whole lift system stable for linear motions, at the top end, extra additional 4 pcs flange type pillow block ball bearings to fix the long lifting screws, and extra additional guiding supports for the lift system.

Rotating jacks model: JTW-5T-UR-2068.5-L-I-C-N

Steel plate model: T28.5-JTW5T

Gear boxes model: JT25-1:1-1450R-1450R-I-LR-B3, JT25-1:1-1450R-1450R-I-LR-O-B3

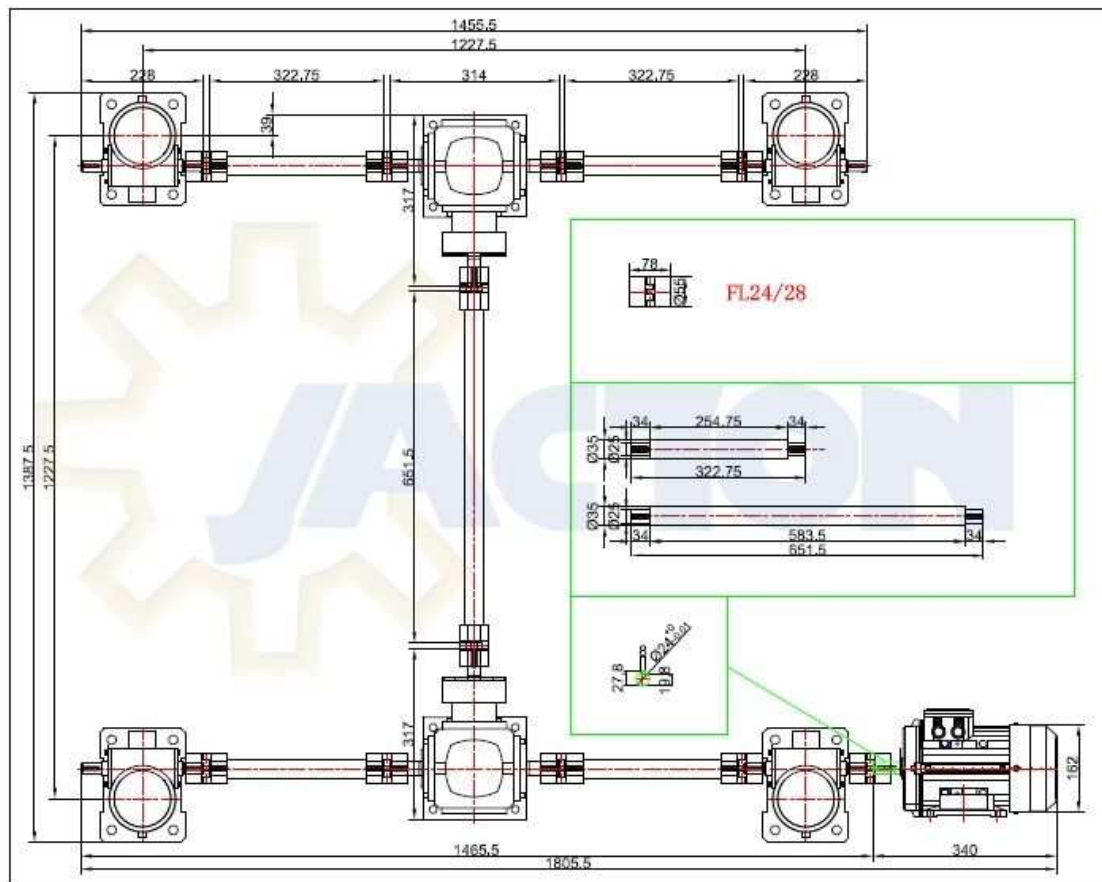
Flange type ball bearing model: UCF204

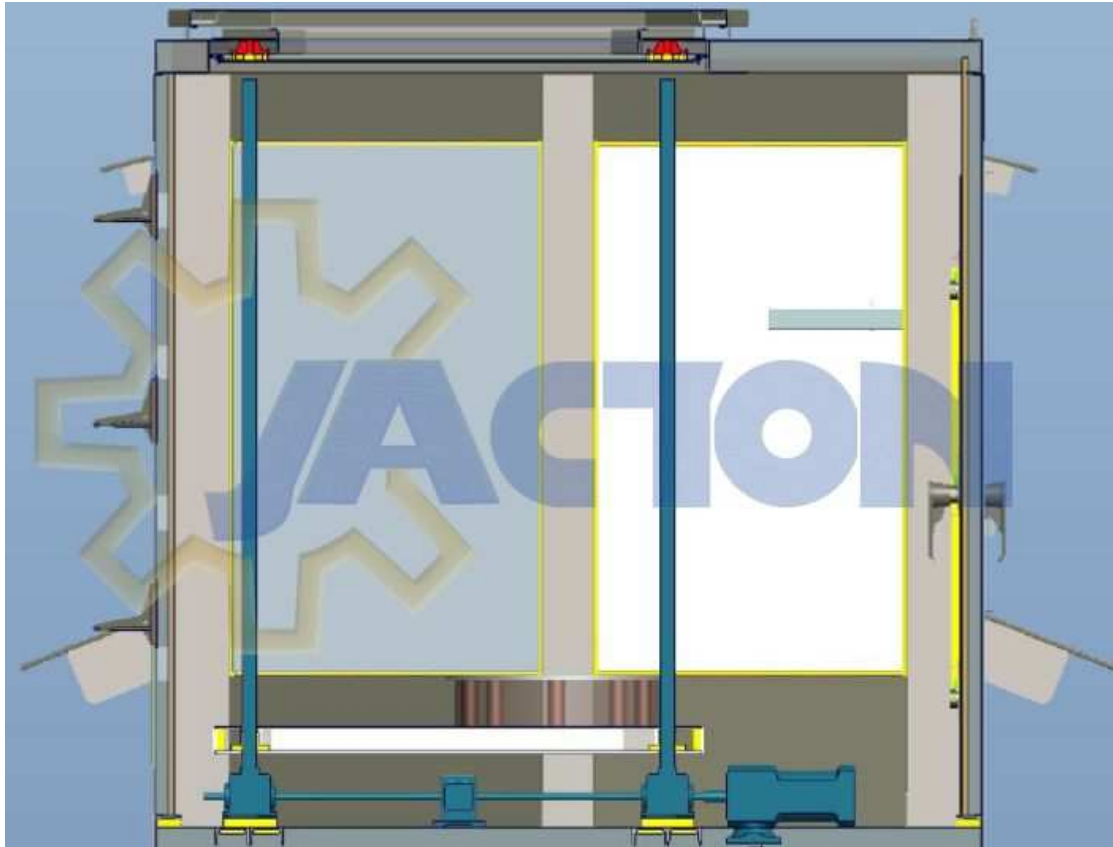
Jaw coupling model: FL24/28

Linking bars model: D35L322.75, D35L651.5

Electric motor model: TC-90L-4-B3-1.5kw

2 set **forward & reversible switches and contractors** to control jacks lift system lifting up and down.









Other Products Includes: JT Acme Screw Jack, JTC Cubic Screw Jack, JTW Worm Screw Jack, JTM Machine Screw Jack, JTB Ball Screw Jack, JTS Bevel Gear Jack, JT Series T Type Spiral Bevel Gear Boxes, JTP Series Cubic Spiral Bevel Gear Boxes, JTV Series Cubic Spiral Bevel Gear Boxes, JTA Series Lightweight Aluminum Spiral Bevel Gear Boxes, Multiple Screw Jack System Arrangements, Cast Iron Hand Wheel, Aluminum Hand Crank, Flexible Jaw Coupling, Electric Motor, Worm Gear Speed Reducer, Geared Motor, Digital Position Indicator, Pillow Block Bearing, Ball Joint Rod End Bearing, Bellows Boot, Linking Bar, Limit Switches, Swivel Mounting Plate, Pivoting Mounting Base, Planetary Speed Reducer, Hydraulic Cylinder Rod End Bearing, Frequency Inverter, 24V DC Motor, 12V DC Motor, 36V DC Motor, 48V DC Motor, 24V DC Motor Gear Reducer, 12V DC Motor Gear Reduction, 36V DC Gear Motor, 48V DC Gear Reduction Motor etc.



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