

Electric Screw Jack



Electric screw jack can also be called Motorized screw jack, which includes a worm gear screw jack and an electric motor. The Electric screw jack actuator is a basis jack-up part, accomplish the functions such as lifting, drop, push and inverting through worm gear drives screw, because it is driven by electric motor, it has higher efficiency than manual screw jack. There are two types worm gear screw jack for motorized screw jacks, they are self-locking machine screw jack or high precision ball screw jack. The motor can be a high-precision servomotor, stepping motor, geared motor, worm gear reducer, bevel helical gearmotor, worm helical gearmotor, three-phase motor, or single phase motor, and 12v, 24v, 48v Brush or Brushless DC motors and DC gear motors, etc. Note: If it is a electric ball screw jack, a brake motor or an external locking device is required to maintain the position. Electric screw jacks offer the most economic solutions for a wide range of industrial applications and the load capacity up to 100-ton as standard.

Three Structures (Connection) for Electric Screw Jacks:

- * Structures 1 (Foot Mounted): input shafts(worm), coupling, and B3 foot mount motor.
- * Structures 2 (Flange Mounted): screw jack with motor flange, and B5, B14, or NEMA flange motor.
- * Structures 3 (Flange Mounted): screw jack with motor flange, coupling, and B5, B14, or NEMA flange motor.



5 Ton Electric Stainless Steel Screw Jack: Corrosion resistant stainless steel machine screw jack load capacity 5 tons, self locking ACME screw diameter 40mm, screw pitch 7mm, inverted mount, translating screw type, stroke 1200mm, ratio 12:1 (1rpm input travel length 0.583mm), clevis end, right shaft and left motor flange. Attached 1.5kw electric motor and IEC 90B5 motor flange, 380V AC-50Hz-3Phase, and 200mm dia. Aluminum hand wheel.



100kN Motorized Screw Jack with Traveling Nut: Cubic electric lifting screw jack load capacity 100 kN, self locking ACME screw diameter 55mm, pitch 9mm, upright mount, rotating screw type, stroke 500mm, ratio 36:1 (1rpm input travel length 0.25mm), plain end, right shaft and left motor adapter, attached bronze traveling nut, double bellows boots, flange block bearing, and 4 kw brake motor with IEC 112M-B14 motor flange, 380V AC-50Hz-3Phase.



50KN Electric Worm Gear Screw Jacks with Three-phase Motor: Electric screw jack 50KN load capacity with a compact and versatile cubic housing, self locking Trapezoidal screw diameter 40 mm, pitch(lead) 7mm, upright mount, travelling screw type, stroke 1500mm, ratio 7:1 (1rpm input travel length 1mm), threaded end and rod end bearing, left motor flange and right input shaft(worm). Three phase two speed motor, 480V AC-60Hz-3Phase, Y100L-8P/4P-0.85KW/1.5KW, and IEC 100B5 motor flange. And attached proximity switches, protective tube, and rod end.



10 Ton Electric Motor Screw Jack with Worm Gearbox Reducer: Machine Screw Jack with maximum static load capacity 10 tons, self locking ACME screw 58 mm diameter, pitch 12mm, stroke 75 mm, gear ratio 8:1 (1rpm input travel length 1.5mm), inverted type jack, no rotation keyed screw design, plain end, left shaft and right motor flange. 0.75KW electric motor with RV075 worm gear reducer, 480V AC-60Hz-3Phase. And attached proximity switches and protective tube.



25 Ton Electric Machine Screw Actuators Features: Machine Screw Actuator with maximum 25 ton static load capacity, self locking ACME screw 90 mm diameter, pitch 16mm, stroke 900 mm, gear ratio 32:1 (1rpm input travel length 0.5mm), inverted type jack, translating screw design, clevis end, left shaft and right motor flange. 4KW electric motor, and helical-bevel gear reducer, 380V AC-50Hz-3Phase. The gear motor is parallel mount with lifting screw, suitable for limit space. And attached protective tube.



Compact Cubic 25KN DC Motorized Worm Gear Screw Jack for Solar Tracking System: Cubic Screw Jack with maximum static load capacity 25kN, self locking ACME screw 30 mm diameter, pitch 6mm, stroke 50 mm, gear ratio 24:1 (1rpm input travel length 0.25mm), upright type jack, keyed screw design, top plate end, left shaft and right motor flange. Small 24V DC motor with RV030 worm gear reducer. And attached protective tube.



Cubic Design 25KN DC Electric Worm Screw Jack offers modern aesthetics and versatile mounting on two faces of the gearbox, while eliminating the need for upright and inverted variants. Cubic Screw Jack with maximum static load capacity 25kN, self locking ACME screw 30 mm diameter, pitch 6mm, stroke 500 mm, gear ratio 24:1 (1rpm input travel length 0.25mm), upright type jack, translating screw design, threaded end combines with rod end as one, left shaft and right motor flange. 24V DC motor with vertical mount(motor flange). And attached protective tube and bellow boots.



25KN Electric Traveling Nut Screw Jack features: Worm gear screw jack with maximum static load capacity 25kN, self locking ACME screw 26mm diameter, pitch 5mm, stroke 1000 mm, gear ratio 24:1 (1rpm input travel length 0.21mm), vertical lifting - upright type jack, traveling nut rotating screw design, plain end, left motor flange. 0.37KW electric motor with IEC 71B5 motor flange, 380V AC-50Hz-3Phase. And attached copper travel nut, flange block bearing.



Single Phase 10 Ton Electric Worm Gear Screw Jack features: Worm gear machine screw jack with maximum static load capacity 10 tons, self locking ACME screw 58 mm diameter, pitch 12mm, stroke 1500mm, gear ratio 8:1 (1rpm input travel length 1.5mm), inverted type jack, translating screw design, top plate, left shaft and right motor flange. 1.5KW electric motor and helical-bevel gear reducer, 220V AC-50Hz-1Phase. And attached rubber bellows, and protective tube.



5 Ton Machine Screw Jacks with Geared Motors Features: Machine screw jack with maximum static load capacity 5 tons, self locking ACME screw 40mm diameter, pitch 7mm, stroke 150 mm, gear ratio 6:1 (1rpm input travel length 1.167mm), upright type jack, keyed screw design, top plate, left shaft with encoder, and right motor flange. 1.1KW electric motor, and helical-bevel gearbox, 380V AC-50Hz-3Phase. And attached incremental encoder, limit switches, protective tube, and customized top plate end.



2.5 Ton DC Gear Motor Screw Jack with Motor Controller features: Machine screw jack with maximum static load capacity 2.5 tons, self locking ACME screw 30mm diameter, pitch 6mm, stroke 900 mm, gear ratio 6:1 (1rpm input travel length 1.167mm), upright type jack, translating screw design, clevis end, left motor flange and right shaft. 24V DC gear motor, with motor controller. And attached protective tube.



5 Ton Electric Rotating Screw Jack: Trapezoidal screw jack with maximum static load capacity 5 ton, self locking ACME screw diameter 38mm, pitch 6mm, inverted mount, rotating screw design, stroke 900mm, gear ratio 24:1 (1rpm input travel length 0.25mm), plain end, left shaft and right motor flange. 0.55KW helical-bevel geared motor, 380V AC-50Hz-3Phase. And attached travelling nut.



5 Tonne Electric Motor Screw Jack with RV Worm Gearbox features: Machine Screw Jack with maximum static load capacity 5 tonne, self locking ACME screw 40 mm diameter, pitch 7mm, stroke 75 mm, gear ratio 6:1 (1rpm input travel length 1.167mm), inverted type jack, no rotation keyed screw design, plain end, left shaft and right motor flange. 0.75KW electric motor with RV075 worm gearbox, 480V AC-60Hz-3Phase. And attached proximity switches and protective tube.



2 Ton Motorized Travel Nut Rotating Screw Jack: Acme screw jack with maximum static load capacity 2 tons, self locking ACME screw 26mm diameter, pitch 5mm, stroke 900 mm, gear ratio 20:1 (1rpm input travel length 0.25mm), upright type jack, rotating screw design, plain end, left shaft and right motor flange. 12V DC motor. And attached bronze travel nut.



2.5 Ton Worm Geared Motor Screw Jack: Machine screw jack with maximum static load capacity 2.5 ton, self locking ACME screw 30mm diameter, pitch 6mm, stroke 1200 mm, gear ratio 24:1 (1rpm input travel length 0.25mm), upright type jack, translating screw design, top plate end fittings, left shaft and right motor flange. 12V DC motor and RV040 worm gear reducer. And attached protective tube.



100kN Upright DC Motorized Screw Jack: Worm gear screw jack with maximum static load capacity 100kN, self locking ACME screw 50mm diameter, pitch 10mm, stroke 50 mm, gear ratio 24:1 (1rpm input travel length 0.42mm), upright type jack, translating screw design, threads end, left motor flange and right shaft. 0.7KW 24V DC motor and RV075 worm gear reducer 15:1 ratio . And attached protective tube, limit switches.



25kN Motorized Ball Screw Jack: Worm gear ball screw jack with maximum static load capacity 25kN, high precision ball screw 32mm diameter, lead 5mm, stroke 250 mm, gear ratio 24:1 (1rpm input travel length 0.21mm), upright type jack, rotating screw design, plain end, left shaft and right motor flange. 0.37KW 48V DC motor. And attached ball nut, rubber bellows.



5 Ton Servo Motor Screw Jack: Machine screw jack with maximum static load capacity 5 ton, self locking ACME screw 40mm diameter, pitch 7mm, stroke 150 mm, gear ratio 24:1 (1rpm input travel length 0.292mm), upright type jack, translating screw design, top plate, left motor flange and right shaft. And attached high precision servo motor.



5 Ton Motor Operated Screw Jack: Acme screw jack with maximum static load capacity 5 tons, self locking ACME screw 38mm diameter, pitch 6mm, stroke 900 mm, gear ratio 24:1 (1rpm input travel length 0.25mm), upright type jack, translating screw design, rod end, left shaft and right motor flange. 1.5KW electric motor with IEC 90B5 motor flange, 415V AC-50Hz-3Phase. Attached bellows boots, stop nut, and trunnion mounting plate.



20 Ton Heavy Duty Electric Screw Jack: Acme screw jack with maximum static load capacity 20 ton, self locking ACME screw 65mm diameter, pitch 10mm, stroke 500 mm, gear ratio 10:1 (1rpm input travel length 1mm), inverted type jack, translating screw design, top plate end, double input shafts. One geared motor driven 8pieces 20 ton jacks, 11KW helical gear motor with foot mounted, 415V AC-50Hz-3Phase. Attached limit switches, protective tube and electrical control box.



5 Ton Electric Screw Jack with Servo Motor Flange: Acme screw jack with maximum static load capacity 5 tons, self locking ACME screw 38mm diameter, pitch 6mm, stroke 300 mm, gear ratio 24:1 (1rpm input travel length 0.25mm), upright type jack, translating screw design, top plate end fitting, left motor flange and right shaft. The customer will prepare the servo motor to match the motor flange of jack. And attached bellows boots.



35 Ton Electric Ball Screw Jack with Servo Motor Flange: Worm gear ball screw jack with maximum static load capacity 35 ton, high precision ball screw 100mm diameter, lead 20mm, stroke 100 mm, gear ratio 32:1 (1rpm input travel length 0.625mm), inverted type jack, translating screw design, custom top plate end, right servo motor flange. We manufactured the screw jack motor flange following customer's servo motor flange sizes. And attached bellows boots, limit switches.



150kN Motorized Screw Jack with Traveling Nut: Compact cubic screw jack with maximum static load capacity 150kN, self locking ACME screw 60mm diameter, pitch 9mm, stroke 1000 mm, gear ratio 9:1 (1rpm input travel length 1mm), upright type jack, rotating screw design, plain end, right motor flange. 4KW electric motor with IEC 112B5 motor flange, 400V AC-50Hz-3Phase. And attached copper travel nut, flange blocks.



25kN Stepper Motor Screw Jack: Worm gear cubic screw jack with maximum static load capacity 25kN, self locking ACME screw 30mm diameter, pitch 6mm, stroke 900 mm, gear ratio 24:1 (1rpm input travel length 0.25mm), upright type jack, translating screw design, top plate end, left shaft and right motor flange. And attached stepper motor, motor controller, limit switches, protective tube.



25kN Trunnion Mount Motorized Screw Jack: Cubic screw jack with maximum static load capacity 25 kN, self locking ACME screw 30mm diameter, pitch 6mm, stroke 380 mm, gear ratio 12:1 (1rpm input travel length 0.5mm), upright, translating screw, rod end, left motor flange. 0.75KW electric motor with IEC 80B5 motor flange, 415V AC-50Hz-3Phase. And attached protect tube, bellows boots, trunnion mount pins, limit switches.



100kN Gear Motorized Screw Jack: Cubic screw jack with maximum static load capacity 100 kN, self locking ACME screw 55mm diameter, pitch 9mm, stroke 1500 mm, gear ratio 36:1 (1rpm input travel length 0.25mm), upright type jack, translating screw design, rod end, left shaft and right motor flange. 1.5KW gear motor with 5:1, 380V AC-50Hz-3Phase. And attached bellows boots.



25T Motorized Screw Jack Raising System: Machine screw jack with maximum static load capacity 25 tons, self locking ACME screw 90mm diameter, pitch 16mm, stroke 700 mm, gear ratio 32:1 (1rpm input travel length 0.5mm), upright type jack, translating screw design, clevis end, left shaft and right motor flange. 2.2KW 24V DC motor with 16:1 planetary gearbox, IEC 90B5 motor flange. And attached protective tube, bellows boots.



Distributors for Australia & New Zealand
MOTION TECHNOLOGIES PTY LIMITED

24/22-30 Northumberland Road
Caringbah NSW 2229 Australia
Phone: (02) 9524 4782

sales@motiontech.com.au
www.motiontech.com.au

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