

ActionJac™ Screw Jacks

Reliable, High-Quality Screw Jacks for Demanding Applications in Harsh Environments

With ActionJac screw jacks, it is easy to build a state-of-the-art jack system for any application. They are made from premium-quality materials and are manufactured to stringent standards to meet the highest demands while delivering long, reliable life.

The Thomson advantage

Our primary focus is on customer satisfaction. You can trust us to deliver world-class quality and reliability each and every day. This guiding principle has helped us to become one of the world's leading full-service providers for linear motion solutions.

- The only manufacturer in the industry with onsite lift shaft die design, manufacturing and control
- Affordable standard or custom engineered solutions
- Engineering support for design and application
- Vertically integrated manufacturing process located in the USA
- ISO 9001-2008 certified and AS9100 registered/certified
- Multi-touch, multi-level customer support teams

Benefits

- Long life
- Outstanding reliability
- Higher efficiencies
- Durability and safety
- Highly flexible
- One source for complete systems

Features

- Special bronze materials
- Larger bearings, travel nuts, and drive sleeves
- One-year warranty on all jacks
- Tighter machining tolerances
- Press fit bearings
- Black oxide coating on lift shaft
- 4142 alloy steel link shafts



High configurability and easy integration

A vast number of models and mounting options makes it easy to configure ActionJac screw jacks into a multitude of different arrangements, and our custom solutions are up to any challenge. ActionJacs are also easily integrated into users' existing control networks with standardized connecting profiles and are ideally suited to perform in harsh environments (wet/dusty/dirty). Corrosion-resistant models can be used in chemically adverse environments.

Applications

ActionJac screw jacks are ideal for a large number of applications in a wide variety of environments. Among the more common are:

- Industrial material handling
- Automation and production machinery
- Military and defense equipment
- Aerospace and transportation vehicles/systems
- Agriculture and construction equipment
- Energy production and power plants



ActionJac configuration examples.



Screw Jack Technology

ActionJac™ screw jack systems are ruggedly designed and produced in standard models with load-handling capacities from 1/4 to 100 tons. They may be used individually or in multiple arrangements.

Machine Screw Models



- Acme screw
- Self locking
- Anti backlash

Series	Gear ratio	Screw diam. [in]	Screw lead [in]	Max input [hp]	Load capacity [tons]
MSJ	5:1 - 32:1	3/4 - 6	0.1 - 0.667	1/8 - 32	0.5 - 100

Ball Screw Models



- High efficiency
- High speeds/duty cycles
- Low input torque

Series	Gear ratio	Screw diam. [in]	Screw lead [in]	Max input [hp]	Load capacity [tons]
BSJ	5:1 - 32:1	5/8 - 4	0.2 - 1.0	1/6 - 32	0.5 - 100

Stainless Steel Models



- Demanding environments
- Corrosion resistant
- 300 stainless steel

Series	Gear ratio	Screw diam. [in]	Screw lead [in]	Max input [hp]	Load capacity [tons]
SS-MJS	6:1 - 32:1	1 - 3-3/4	0.25 - 0.667	1/2 - 11	0.66 - 11.66

Bevel Models



- Acme screw - 1 to 20 tons
- Ball screw - 1 to 7.6 tons
- High lift speed
- Greater duty cycle

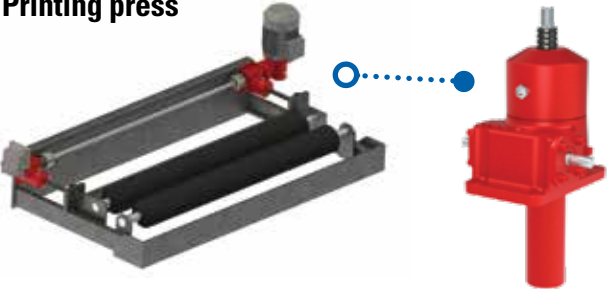
Metric Sizes Available

Screw Jack Applications

Translating screw jacks

A translating jack has a lifting shaft that moves through the gear box to move the load.

Printing press



Double clevis screw jacks

Double clevis jacks are used when it is necessary to move a load through an arc. Machine and ball screw jacks from 1- to 15-ton capacities can be supplied with double clevis mounts.

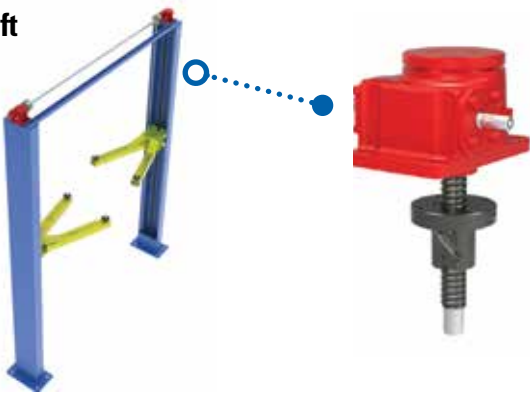
Solar panel



Rotating screw jacks

A rotating jack has a lift shaft that moves a nut as it turns. The lift shaft is fixed to the worm gear. This causes the load, which is attached to the travel nut, to move along the lift shaft.

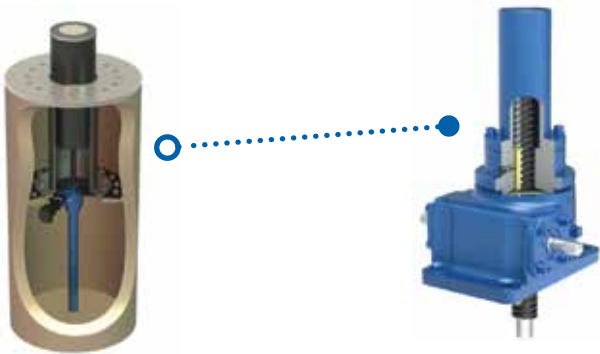
Auto lift



Keyed screw jacks

A keyway can be added along the lifting screw of a machine or ball screw jack to prevent lift shaft rotation. This type of jack is referred to as a "keyed jack" and is available in upright and inverted models.

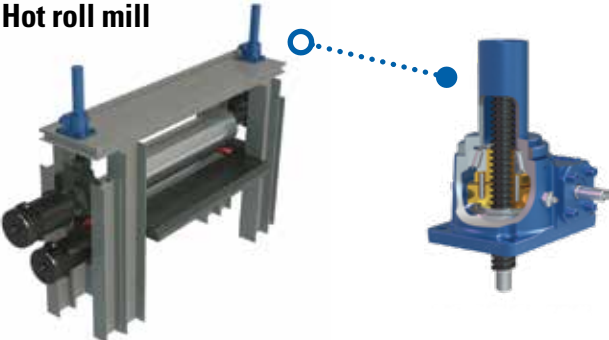
Road barrier



Anti-backlash screw jacks

Anti-backlash machine screw jacks are used to increase the precision, and depending of the model, can reduce backlash to approximately 0.003 inch.

Hot roll mill



One Source for Complete Screw Jack Systems

Start with one of our
base jacks and add ...



hardware



Line shafting



Gear boxes



Couplings



Bellows



Bevel gears

power



Motor mounts



Motors



Steppers



Hand wheels



Reducers

sensors & controls



Sensors



Limit switches



Counters



Encoders



Control panels

... and finish with a
complete system
tailored to your
needs!



... and we do custom too!

Customer Support

Thomson provides outstanding customer support with dedicated subject matter experts and a variety of online tools to simplify the design process. We collaborate with customers to put your unique designs into motion by providing engineering expertise and state-of-the-art technology.

Industry Leading Customer Support

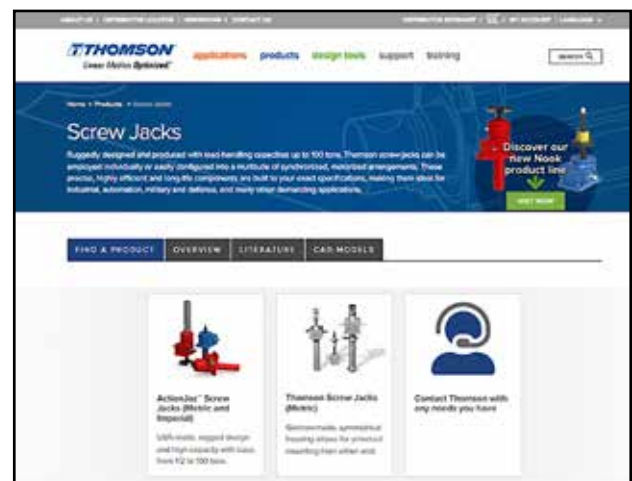
Whether you just started researching linear motion components or need help with your installed Thomson product, our customer support team is always ready to assist you. Contact us via phone, fax or email, or visit the Thomson website to submit our contact form, live chat with an application engineer, request a quote or fill out an application data form.

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Online Resources

Learning more about ActionJac screw jacks is only a click away. On our website, you'll find many resources to educate you on screw jack technology, guide your purchase decision and support you following installation. Resources include 3D models in the most common CAD formats, technical videos and articles, webinar recordings, specification brochures and more.

www.thomsonlinear.com/en/products/screw-jacks



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