

Screw Jacks

Screw jacks are gearbox assemblies combined with transmission components that, through the use of a motor, can be used to convert rotary motion into linear motion. Depending on the application, screw jacks can be used to lock, unlock, push, pull, tension, tilt, lift, lower, slide, roll, or pivot loads ranging from a few pounds up to 250 tons.



Machine Screw Jacks



Machine Screw Jacks

- Best-suited for low to moderate duty cycles and slower movement.
- Can be adapted to meet the needs of washdown applications.
- Offer self-locking capabilities in the absence of vibration.
- Machine screws are available with stainless steel, metric, and motorized jack models.
- Ability to limit backlash in reversing loads via anti-backlashing devices.
- Self-locking jacks typically don't require a motor to hold position.



Ball Screw Jacks

- Ideal for moderate to high-duty cycles and higher travel speeds.
- Well-suited for moving loads that require longer continuous travel.
- Need a brake motor to hold position and are not self-locking.
- Ability to move loads with less horsepower and higher speeds.
- Not ideal for manual operation.
- Available in motorized configurations.

Screw Jack Advantages



Increased Energy Efficiency



Higher Level of Precision and Accuracy



No high-Pressure Oil Leaks, Meaning they are more Environmentally Friendly



Self-Locking in the Event of Power Loss, Ensuring Increased Safety



Easy to Install, Tune, and Program



No Need for Expensive Hydraulic Oil or Hydraulic Equipment



Won't Require Leak Repairs

Screw Jack Applications



Aerospace



Transmission



Machining



Tire Manufacturing



Paper Production



Automotive



Industrial and Factory Automation



Food and Beverage



Military and Defense



Transportation

Work With Joyce/Dayton Corp.

At Joyce/Dayton Corp., we've been a leading manufacturer of actuators, screw jacks, and lifting equipment since 1873, and we put those 150 years of experience into every project.

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