

Specialists in Lead Screw Technology

Power Jacks have a long history in linear motion and engineered products. At the heart of our linear motion products is our lead screw technology which has provided our customers with high quality precision products for over 25 years.

Our expertise allows us to offer the best solution for each customer's application requirements whether using standard or special designs. By offering the options of:

- Whirled screw thread
- Rolled screw thread
- Ground screw thread

We have a solution that meets both technical and commercial requirements for your application.

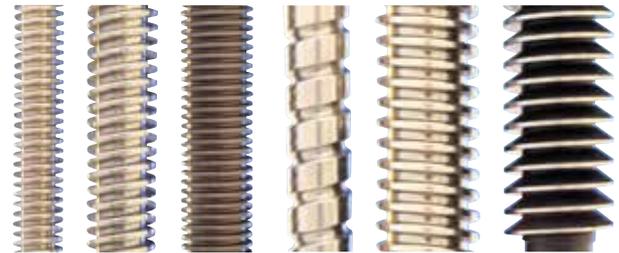
Many customers are enjoying the Power Jacks advantage in industry sectors such as Industrial, Energy, Transport, Civil and Defence. See what Power Jacks can offer you for lead screw solutions.

Our capability in lead screws and matched nuts includes:

- Multi start threads with 1, 2, 3, up to 50 threads
- Variable pitch threads
- Screw lengths from 0.01m up to 20m
- Screw diameters from 10mm to 300mm
- Internal screw threads up to 2000mm long
- Customer specific thread profiles, including non-standard flank angles
- End machining of the lead screw to suit your exact needs
- Standard, tempered and special materials
- Heat treatments up to 8m in length
- Surface coatings and treatments
- Small volume prototype batches and high volume production available
- Short leads times of 1-3 weeks

The leads screws and nuts are provided fully machined, including all turning, milling, drilling and surface finishes, so they are ready for installation straight away.

Contact Power Jacks today to see how you gain an advantage with our lead screws.



Precision Screws



With Matching Nuts



TRAPEZOIDAL THREADS

Take advantage of the screws regularly used in Power Jacks own machine screw jacks and linear actuators. Our range of trapezoidal lead screws is available in our own industrial standard or to German standards DIN 103 and DIN 380 for flat, metric trapezoidal threads and DIN 30295 for rounded trapezoidal threads. We also offer trapezoidal thread forms to other international standards such as ACME and Stub ACME and those to petroleum industry standards. Single or multi start screw threads are available.



SHARP THREADS

For self-locking threads generally used in fastening systems we offer a wide range of single-start and multi-start ISO-metric sharp threads for V-threads to German standard DIN 13 or UNC, UNF and Whitworth standards.



BUTTRESS THREADS

Buttress threads (saw thread or breech-lock thread form) designed for extremely high single direction axial loads for applications such as presses, lifting systems and chucks for turning & milling centres. The range includes single-start and multi-start ISO-metric buttress threads according to German standards DIN 513, DIN 20401, DIN 2781 and DIN 6063. Other international standards available on request.



KNUCKLE THREADS

The round shape of our knuckle threads makes them insensitive to dirt and damage. Suitable for applications like railway carriage brakes & clutches, large valves and gates. This range of threads includes single-start and multi-start ISO-metric and imperial knuckle threads to the German standards DIN 405, DIN 15403 and DIN 20400.



COARSE THREADS

Single-start and multi-start coarse or steep threads ideal for wind energy braking systems and door closing mechanisms.



REVERSE THREADS / DIAMOND THREADS

Diamond profile threads for spooling devices in winches and level winders in wire rope drums.



SCREW CONVEYORS

Single-start and multi-start conveying screws as well as twin screw extruders in diameters from 10mm to 120mm.



ROLLER SCREW

Go beyond ball screw performance with a precision ground Spiracon roller screw and matched roller nuts for the ultimate in linear motion performance. These highly efficient designs have a high load carrying capability together with almost no axial backlash and high durability. Where you need the ultimate performance in industries such as oil & gas, nuclear, defence, steel and automotive these roller screws deliver.



THREADED NUTS

The perfect partner to the lead screw is a matched nut manufactured to your exact requirements. We regularly supply round, flange, square and multi-sided nut designs, all available in a material to suit your application.