Lifting & Positioning Solutions for the Oil & Gas Industry
Power Jacks is a manufacturing/engineering company specialising in the design and manufacture of lifting & positioning solutions for applications in Industrial Automation, Energy, Defence, Transport and the Civil Engineering sectors.

Headquartered near Aberdeen in the UK, the company is the UK’s largest screw jack manufacturing facility, that uses the latest engineering technologies to deliver quality products (BS EN ISO 9001:2008) that offer reliability, performance and economy.

Power Jacks deliver this high quality service in a safe (OHSAS 18001:2007) and environmentally friendly (ISO 14001:2004) working environment thanks to the highly trained, flexible and motivated teams that work throughout the business driving the company to higher levels of performance.

We know our customers demand our engineering expertise to help find a solution for their applications. We take pride in designing and delivering the best solution using standard or special designs that help improve your business.

Our Vision is to become the partner of choice for our products globally
Our Mission is to provide high quality lifting & positioning solutions.
A global reach with a local service as we work closely with our customers to ensure the best solution for all their clean and precise Electro-Mechanical solutions for subsea, offshore and onshore applications.
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WE HAVE 8 COMPLIMENTARY AREAS OF EXPERTISE. SCREW JACKS, LINEAR ACTUATORS, LEAD SCREWS, BEVEL GEARBOXES, JACKING SYSTEMS, LOAD MONITORING, PRECISION MACHINING & DESIGN SUPPORT SERVICES.

Power Jacks range of precision products and services provides an alternative to hydraulic based solutions for high load applications (10kN to 3500kN and above).

Our products have the advantage of improved performance and safety at a lower cost. Clean and simple to install, easier to control with less waste and environmental impact.

**SCREW JACKS**
Ideal for use as a single jack or in multiples as a jacking system to push, pull, tension, lock, unlock, tilt, pivot, roll, slide and lift or lower loads, anything from a few kilos to thousands of tonnes.

- Capacities up to 2000 kN (200Te) as standard
- Capacities up to 35000 kN (3500Te) on request
- Machine Screw, Ball Screw and Roller Screw Jacks
- Translating & Rotating screw configurations
- Standard material or full stainless steel screw jacks
- Self-Locking (only use power when moving)
- Anti-rotation mechanism for unconstrained loads
- Anti-Backlash or Zero-Backlash mechanism for axial positioning
- Dual Nut (safety nut) fail safe load holding option
- Shock load rated units

**LINEAR ACTUATORS**
Based on our lead screw and screw jack technology these fully enclosed electro-mechanical linear actuators can be supplied with or without integrated electric motors and feedback devices.

- Capacities up to 400 kN (40Te) as standard
- Capacities up to 1000 kN (100Te) on request
- Machine Screw, Ball Screw and Roller Screw actuators
- Standard material or full stainless steel screw actuators
- Self-Locking versions available
- Anti-rotation mechanism in ram for unconstrained loads
- Zero-Backlash mechanism for axial positioning
- Dual Nut (safety nut) fail safe load holding option
- Shock load rated units

**LEAD SCREWS**
We can manufacture Whirled, Rolled and Ground screw thread to your requirements whether for fastening systems, winches, winders, valves, gates, screw conveyors to name a few.

- Trapezoidal, Sharp, Butress, Knuckle, Coarse, Reverse / Diamond thread profiles
- 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
BEVEL GEARBOXES
Distribute mechanical rotary power throughout your drive system with these bevel gearboxes.

- Ultra Compact Bevel Gearbox Design
- 2-way, 3-way & 4-way Configurations
- Solid Shaft & Hollow Shaft
- Gear Ratios: 1:1, 1.5:1, 2:1, 3:1 & 4:1
- Torque Ratings up to 7000 Nm
- SG Iron Housing as Standard
- Full stainless steel on request
- Special Gear Ratios Available

JACKING SYSTEMS
These jacking system arrangements or configurations can be built in many formats with the use of screw jacks, bevel gearboxes, motors, reduction gearboxes, drive shafts, couplings, plummer blocks and motion control devices.
Four of the most popular system configurations are the ‘H’, ‘U’, “T” and “I” configured jacking systems.

LOAD MONITORING
We have a comprehensive range of standard load cell products and also offer a bespoke, custom load cell design service.

- Load Cells up to 2000 Tonne
- Load Links up to 500Te tensile load
- Load Shackles up to 2000 Tonne
- Line Monitors for wire rope load (line) & line (pay out)
- Telemetry displays & datalogging
- All with options for wireless, cabled and ATEX designs

PRECISION MACHINING SERVICES
Our sub-contract machining cell was designed to support customers with specialised machining work, specifically for the Oil & Gas sector. We have extensive state of the art machining capabilities with CNC Lathes, Manual Lathes, Milling Machines, Threading Machines and more. Take advantage of our long established experience in manufacturing.
Benefit from our service with 90%+ on-time delivery.

DESIGN SUPPORT
For product or project development Power Jacks highly experienced team of design engineers are available to help you achieve the best solution for your application. Our speciality is in designs requiring mechanical or electro-mechanical linear or rotary motion solutions whether at a component part or complete system level.
Power Jacks specialises in the design and manufacture of precision linear actuation, positioning and lifting equipment.

Our products are supplied globally across many sectors including Industrial Automation, Energy, Transport, Defence and Civil.