

POWERJACKS

PRECISION ACTUATION



ATEX Screw Jacks

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Explosion-proof ATEX rated screw jacks are specially engineered and manufactured to operate safely in hazardous environments where potentially flammable liquids, gases, vapours, dust or other substances could ignite and/or explode. Power Jacks ATEX rated screw jacks are designed with safety measures throughout that restricts the amount of energy available if a fault occurs to prevent arcs or sparks from igniting explosive or flammable substances.



- Screw Jacks engineered to meet each exact ATEX application requirements.
- Designed to prevent ignition in hazardous environments.
- ATEX directive compliant for reliable safe operation in defined hazardous area zones.
- Both mechanical and electro-mechanical designs are available, with a full range of drive and feedback options including electric motors, auxiliary gearboxes and sensors.
- Manufactured in a high-quality ISO compliant environment using the optimum materials, coatings and lubricants suitable for hazardous environments.
- Available in high corrosion resistance designs including full stainless steel.
- Enclosure ratings up to IP68 (submersible) for operation in demanding environments.
- All accessories are ATEX rated and can integrate into suitable systems for full automation solutions in hazardous areas.

COMPLIANT STANDARD

Standard	Description
2014/34/EU	EU ATEX Equipment Directive
SI 2016/1107	UK ATEX Equipment Directive
BS EN 1127-1:2019	Explosive atmospheres. Explosion prevention and protection - Basic concepts and methodology
ISO 80079-36:2016	Non-electrical equipment for explosive atmospheres: Basic method and requirements
ISO 80079-37:2016	Non-electrical equipment for explosive atmospheres: Non-electrical type of protection constructional safety "c", control of ignition sources "b", liquid immersion "k"

ATEX ZONES AVAILABLE

Zone	Type	Category	Description
Zone 1	Gas / Vapour	Category 2G	Explosive atmosphere likely in normal operation
Zone 2	Gas / Vapour	Category 3G	Explosive atmosphere not likely; if it occurs, it is brief
Zone 21	Combustible Dust	Category 2D	Explosive dust cloud likely in normal operation
Zone 22	Combustible Dust	Category 3D	Explosive dust cloud not likely; if it occurs, it is brief

E-SERIES Machine Screw



- Capacities 5kN to 3500kN
- Translating & Rotating Screw
- Upright & Inverted types
- Trapezoidal Machine Screw
- Anti-Backlash version
- Anti-Rotation version
- Safety Nut version
- 6 mounting options including trunnion & double clevis
- Limit switches & other feedback devices

E-SERIES Ball Screw



- Capacities 10kN to 500kN
- Translating & Rotating Screw
- Upright & Inverted types
- Internal recirculating ball nut
- Zero-Backlash version
- Anti-Rotation version
- Safety Device in Ball Nut version
- 6 mounting options including trunnion & double clevis
- Limit switches & other feedback devices

E-SERIES Stainless Steel



- Capacities 10kN to 1000kN
- Translating & Rotating Screw
- Upright & Inverted types
- Trapezoidal Machine Screw
- Anti-Backlash version
- Anti-Rotation version
- Safety Nut version
- 6 mounting options including trunnion & double clevis
- Limit switches & other feedback devices

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