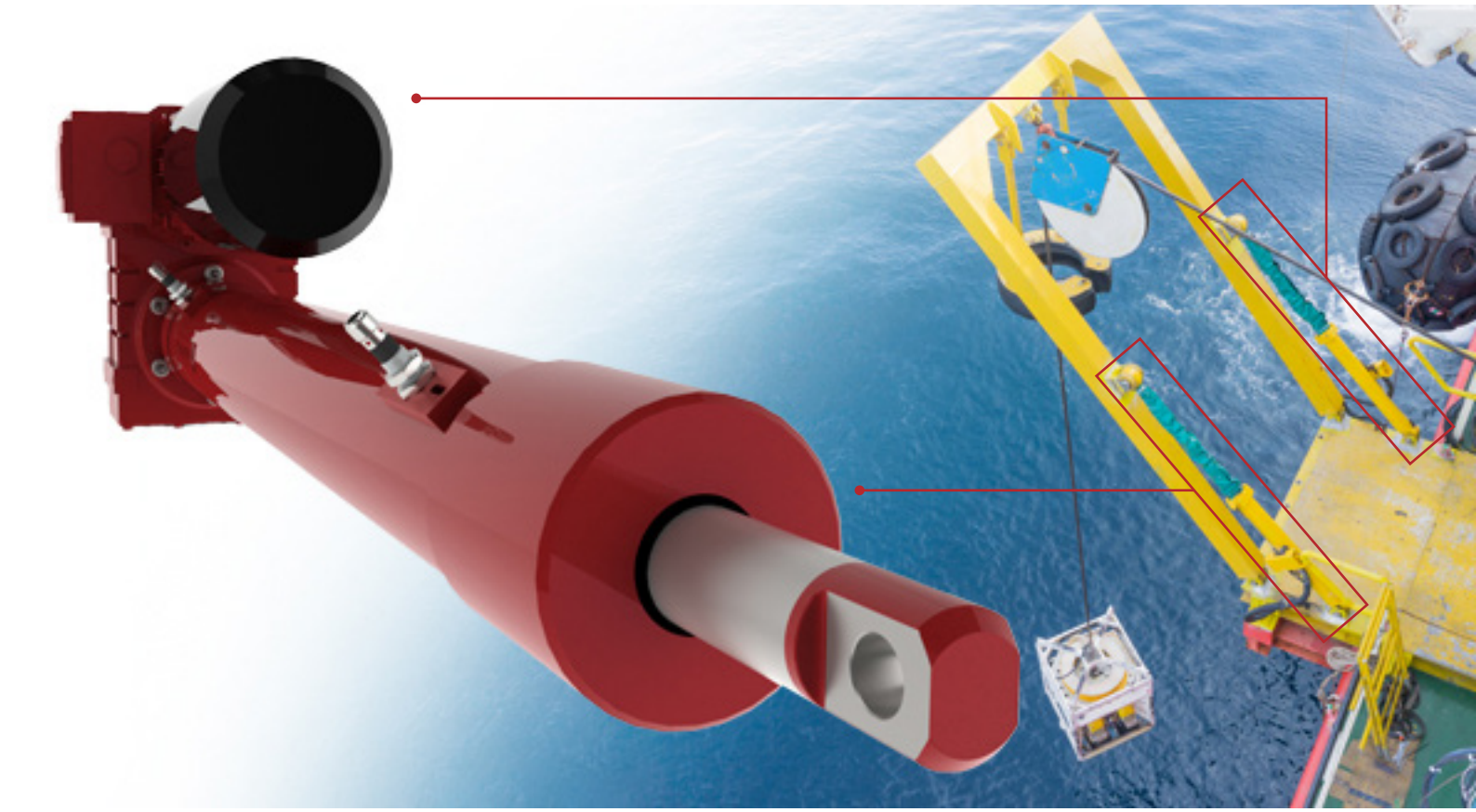
POWERJACKS
PRECISION ACTUATION

www.powerjacks.com

Electro-Mechanical LARS Actuators



Move to ALL Electro-Mechanical Launch & Recovery

REPLACE THE USE OF HYDRAULIC ACTUATORS ON LAUNCH AND RECOVERY SYSTEMS (LARS) WITH POWER JACKS STATE OF THE ART ROLARAM ELECTRO-MECHANICAL LINEAR ACTUATORS.

All the qualities you'd expect of Power Jacks products – strength, reliability, durability and high performance. Our Rolaram electro-mechanical linear actuators are ideally suited to operate in the toughest offshore conditions, anywhere in the world.

Power Jacks are a long-established specialist in electro-mechanical jacking and actuation, already supplying linear motion and mechanical rotary power transmission in offshore and subsea applications.

Suitable for use in Launch and Recovery Systems (LARS) for the deployment and retrieval of Remotely Operated Vehicles (ROVs), Divers, Towed Bodies, Oceanographic Instrumentation, Autonomous Underwater Vehicles (AUVs) and other payloads.

Tailor-made design for each LARS application so you get optimised performance for your machine.

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Electro-mechanical linear actuation: what it means for you

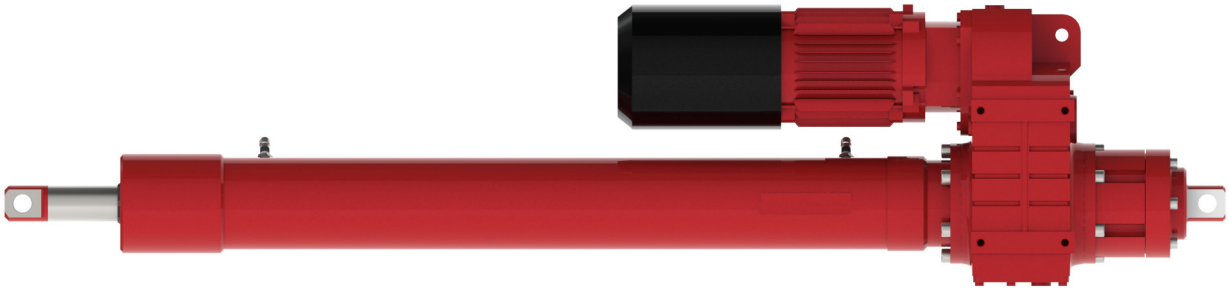
More Environmentally Friendly
- Cleaner machinery as no hydraulic fluid leaks
- No hazardous hydraulic fluid – so risk of contaminating the environment is significantly reduced or eliminated entirely
- Reduced health and safety requirements due to absence of hazardous hydraulic fluid
- No need to dispose of hydraulic fluid at any point during or after operations

Higher Performance
- Accurate and smooth delivery of force
- Wide range of actuation as the stroke position is easily and quickly varied
- Resistant to wide temperature variations
- Complete control of the entire motion profile
- Repeatable and accurate positioning

Increased Safety
- Cleaner machinery as no hydraulic fluid leaks
- Electric Linear Actuators can be self-locking so hold position even with no power connection
- No high-pressure oil leaks

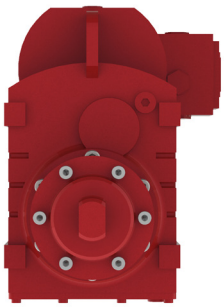
Easier To Control
- Easy to install using standard mechanical and electrical solutions
- Controls simple to programme and tune
- Simple mechanical shaft or electric cable extensions for systems spanning long distances
- No risk of loss of pressure or leaks in long pipe runs, as can be the case with hydraulics

Rolaram Electro-Mechanical Linear Actuators



Tailor-made design for each LARS application so you get optimised performance for your machine.





Actuator Performance & Feature Overview:
- Capacities: Up to 1000kN (100Te) dynamic
- Stroke: Up to 5m
- Linear Speed: Up to 20 m/min
- Smooth, precise movement using machine screw, ball screw or roller screw drive.
- Electric motor mounted parallel, right angle or in-line to actuators ram.
- Back up motor or hand operated options,
- Optimised for Reliability, Durability & Maintainability
- Self-locking options,
- Feedback devices for position and speed.
- Ram End Mounting options: Clevis or Fork End with or without bearing.
- Gearbox End Mounting options: Clevis End, Fork End, Trunnion Mounts.
- Single or Dual braked options available.
- Ambient Temperature Range: -30°C to +50°C
- Enclosure Rating: IP56, IP66 or IP67
- Wide choice of corrosion protection options including stainless steel.
- Plug-In connectors available for motor and feedback devices.
- Option for automatic lubrication systems.
- Load monitoring options available (cabled & wireless).
- Finished in Power Jacks Red or a colour and paint system of your choice.

POWERJACKS
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MANAGEMENT SYSTEM CERTIFICATION
DNV·GL
ISO 9001 = ISO 14001
ISO 45001

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