



ACORN[®]
industrial services limited

**Automated
Solutions**

Linear Actuator Axes - Rodless



Key Benefits

- ✓ High speed and high positioning accuracy
- ✓ Ready-to-install
- ✓ Compact dimensions
- ✓ High load capacity

Rodless linear actuators deliver precise motion in a compact, space-saving design, making them ideal for tight spaces or streamlined set-ups.

Widely used in automation, manufacturing, and robotics, they offer long stroke lengths without sacrificing stability. Their enclosed structure enhances durability, while their efficient design simplifies installation and maintenance. Reliable, versatile, and built for demanding environments, they're a smart, effective choice for smooth, controlled movement.



Linear Actuator Axes - Rod Type



Key Benefits

- ✓ Exceptional performance
- ✓ Parameters can be flexibly adapted
- ✓ Energy-efficient
- ✓ Optional life-time lubrication

Electromechanical actuators are the go-to choice for precise, efficient motion control.

They offer greater accuracy, energy efficiency, and reliability, making them a smarter alternative to traditional systems. With smooth, programmable motion and easy integration into automation, they deliver flexibility and consistency while reducing maintenance. Their compact design saves space, while advanced control capabilities enhance productivity. Built for performance and longevity, they're a powerful solution for modern motion control.



Cartesian Multi-Axis System



Key Benefits

- ✓ Easy product selection
- ✓ Best-in-class components
- ✓ Delivered pre-assembled
- ✓ Easy, flexible, ready-to-install

Simplify automation with ready-to-install subsystems that are easy to select, quick to configure, and built for seamless integration.

ACORN partners with leading linear motion manufacturers to provide expert guidance and precision-engineered solutions. Using advanced tools and product test data, our specialists help you build a tailored system with perfectly matched motors, servo drives, and cable systems. By ensuring the best system arrangement without over sizing, we maximise performance, longevity, and cost efficiency while keeping designs compact.



Smart Function Kit



Key Benefits

- ✓ Easy selection & configuration
- ✓ All components from a single source supplier
- ✓ Plug & produce with zero programming
- ✓ Ideal for pressing and joining tasks

The Smart Function Kit is a modular servo press designed for precise pressing and joining applications up to 70 kN.

Combining best-in-class components with intuitive software, it offers a flexible, compact, and future-ready solution. Quick to select, easy to commission, and simple to programme, it integrates seamlessly with minimal disruption. With open interfaces and real-time monitoring, it boosts efficiency, reduces downtime, and maximises productivity. Supplied by ACORN, this all-in-one solution is built for modern, high-performance manufacturing.



Value Added Services



Guide & precision shaft cutting

- Available from several manufacturers
 - Short lead times on cut shafts
 - End face grinding for over length applications requiring butt-jointed rails



Ball screw & Linear Shaft Machining

- Fully machined and tailored ball screw and precision shaft assemblies
- All available on short lead time



Linear Guide Kitting & Assembly

- Custom kits available with optimal items
- Assembled together for machine set or build requirement



Ball screw & Linear Actuator Repair

- Save cost on new units with repair service
- Ensure maximum performance for as long a possible



Design Review & Process Optimisation

- Offer a full linear guide and drive review
- Optimise systems for maximum performance and most cost effective components



Maintenance, Lubrication & Failure Analysis

- Diagnose root cause of failures
- Offer advice and suggestions on corrective actions to avoid repeat problems



Talk to the experts



Garry Haines

Linear & Automation Product Manager

Authorised distributors for:

