ALBERT SDA - Spindle direct drive actuator

INKOMA-GROUP

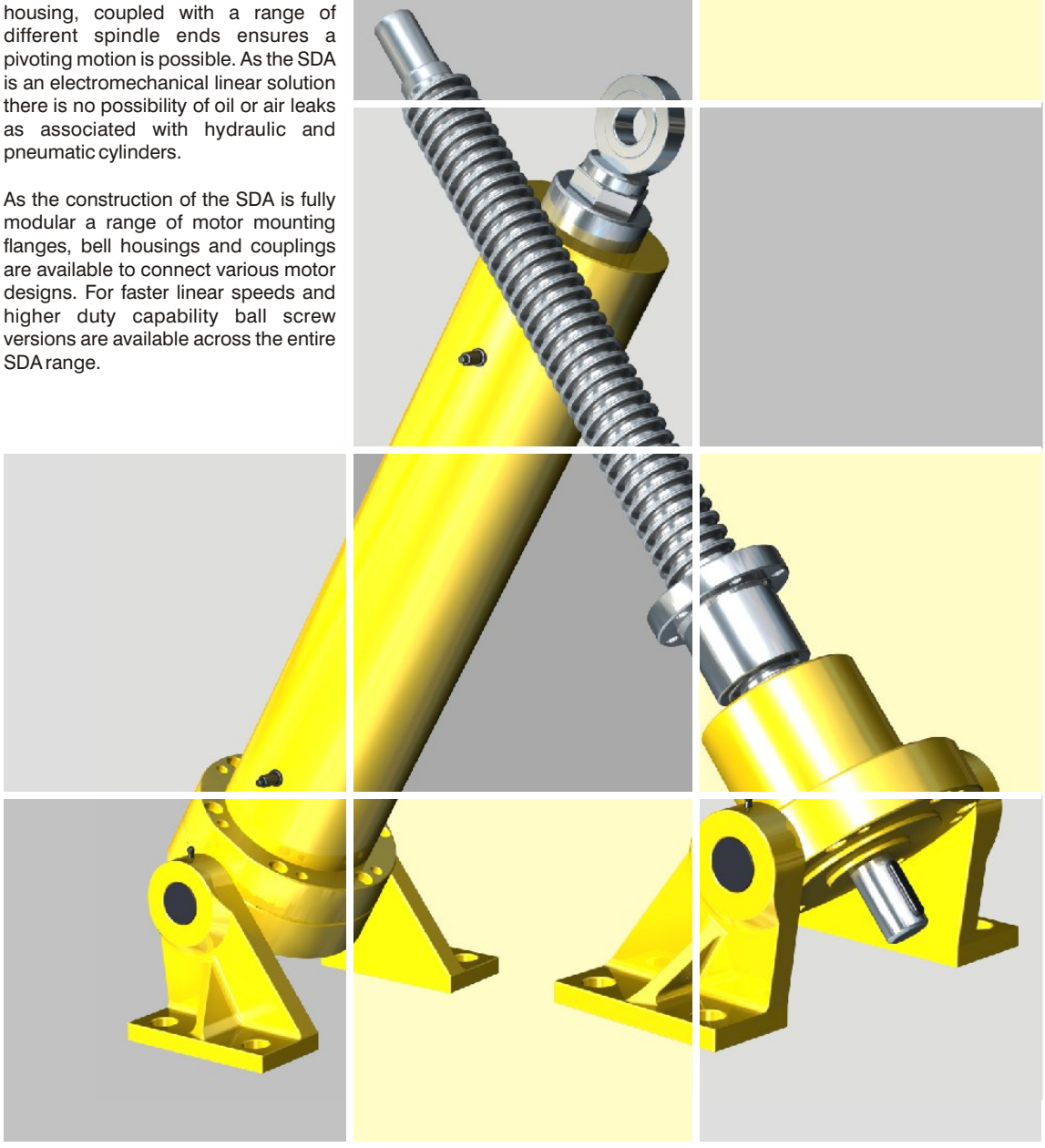
The ALBERT SDA is a modular direct drive linear actuator system for use in a wide range of applications and industries. The actuators can operate with fast linear speeds and high duty cycles in high load conditions.

The SDA can be used as a single drive linear actuator. Alternatively, high precision motion control with synchronisation between axis is possible. The SDA is a perfect solution as part of a multi-axis system.

Available in 4 different sizes with a fully modular construction and vast array of accessories, the SDA can be configured to achieve bespoke application requirements.

The SDA has a rigid construction with a fully sealed housing, equipped with robust axial and radial bearings and lifetime lubrication. The use of a pivoting bracket attached to the housing, coupled with a range of different spindle ends ensures a pivoting motion is possible. As the SDA is an electromechanical linear solution there is no possibility of oil or air leaks as associated with hydraulic and pneumatic cylinders.

As the construction of the SDA is fully modular a range of motor mounting flanges, bell housings and couplings are available to connect various motor designs. For faster linear speeds and higher duty capability ball screw versions are available across the entire SDA range.



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Design features

- max. dynamic axial forces of the sizes:

SDA10	SDA25	SDA50	SDA100
12,5kN	25kN	50kN	100kN

- lifting speed from 0.5 m/min to 30 m/min depending on load and duty
- self-locking due to trapezoidal design
- life-time lubrication due to high-quality long life grease and encapsulated housing design
- stroke lengths according to customer requirements (allowing for critical buckling and rotational speed values)
- electronic synchronisation of multiple actuators is possible
- special spindle diameters, leads and multi-start threads are possible

Versions

SDA basic version

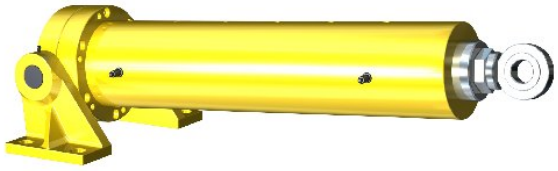
- **SDA-B with trapezoidal spindle**
- **SDAK-B with ball screw spindle**

The SDA basic versions are equipped with either a self-locking trapezoidal spindle or ball screw spindle with mating flanged nut. The input shaft can be connected to a suitable motor and coupling to complete the drive arrangement.

SDA tube design

- **SDA-R with trapezoidal spindle**
- **SDAK-R with ball screw spindle**

The SDA tube design has a fully enclosed spindle and nut with a corrosion proof cover tube and push rod.



Accessories:

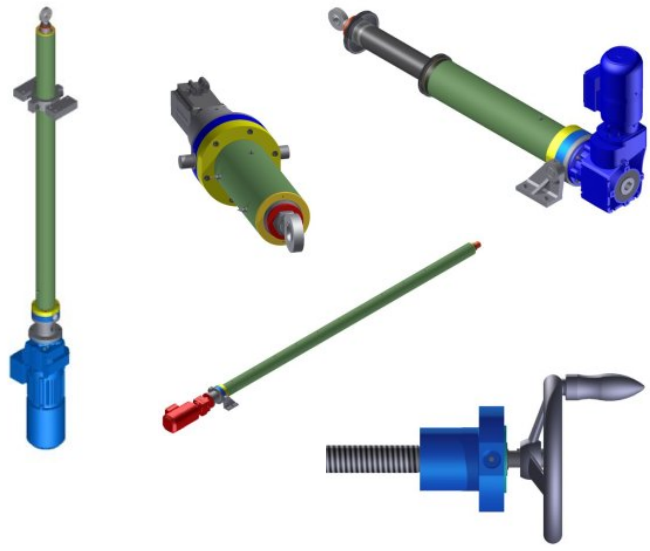
Stopnut, rotation prevention, safety nut, pivot pins, pivot mounting, couplings, motor adaptors, flanges, flanged bearings, support bearings, various front attachments and more.

If you have any questions or problems, just call on our engineers and field representatives for support. We will be happy to advise you or provide our experience for preparing actuator specifications.

Examples

The ALBERT SDA is an economical drive solution and used in a wide range of industries.

- in mechanical engineering as dynamic feed drives for horizontal, inclined or vertical lifting movements
- in civil engineering, automated handling and automobile manufacturing for dynamic linear adjustment in the water industry
- for locks and sewage treatment facilities - in particular the ALBERT SDA tube version in the enclosed design provides protection against contamination
- in the food and paper industry, aerospace engineering, crane construction and is suitable for all external applications



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