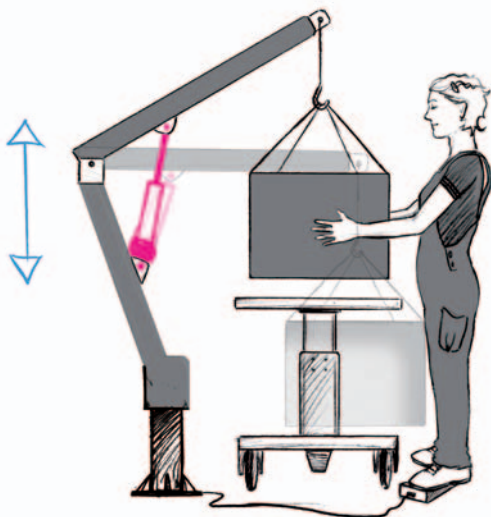
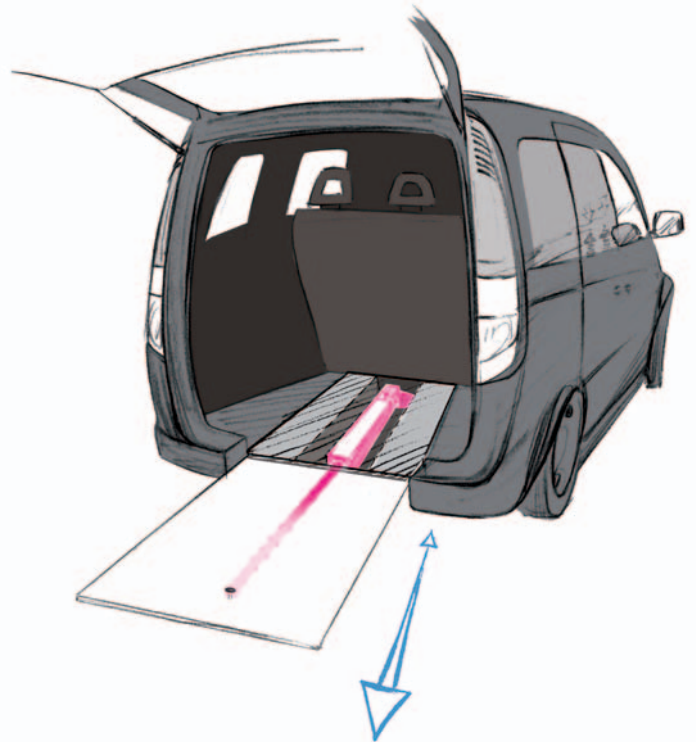
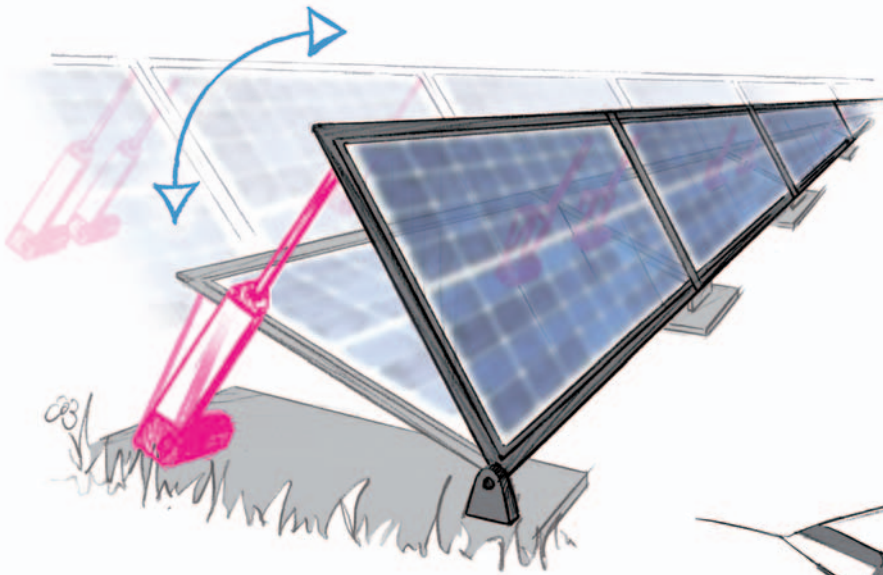
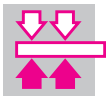




# Control, Adjust and Move with **RA** Linear Actuators





## RA linear actuators – electric operation easy made

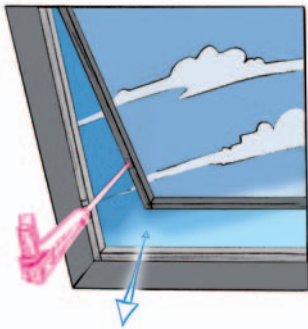
In industry, processes and operating procedures are nowadays more and more often electrically operated. For the required adjustments of the devices and equipments often linear actuators are used.

With RA linear actuators electrical operations can be realised in a simple and efficient way.

RA linear actuators are complete functional units, in compact housings, that are supplied and controlled with 24 V direct current. Thus they can be easily integrated in electric controls or operated by pushing a button.

Movement between the two end positions is triggered by voltage switching. Defined intermediate positions are controlled by means of an integrated stroke measuring system.

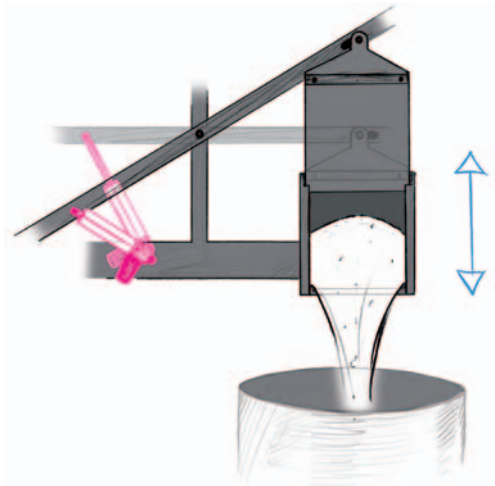
### Open and close windows and dormer windows



Open and close in buildings RA linear actuators for hardly accessible windows and dormer windows.

The operation is optionally be made by pushing a button by an operator or automatically controlled by sensors, which record the solar radiation and temperature.

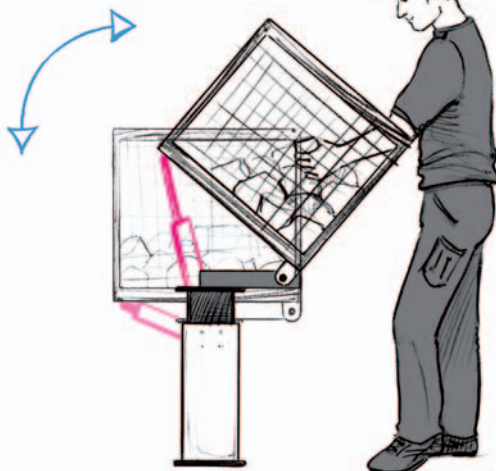
### Actuate lids for bulk materials.



When taking bulk materials, RA linear actuators actuate the heavy opening lids of silos or containers, either directly or by a lever mechanism.

The default quantity determined by the weight is exactly met by the precise opening and closing of the lids.

### Position container

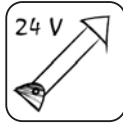


In work and assembly processes, freight and storage containers are positioned with RA linear actuators so that loads can be loaded and unloaded without any efforts.

Employees are optimally supported and motivated.

Handling processes can be executed quicker and more effectively.

As a result, the production throughput and therewith the productivity are increased.



# Control, Adjust and Move with **RA** Linear Actuators

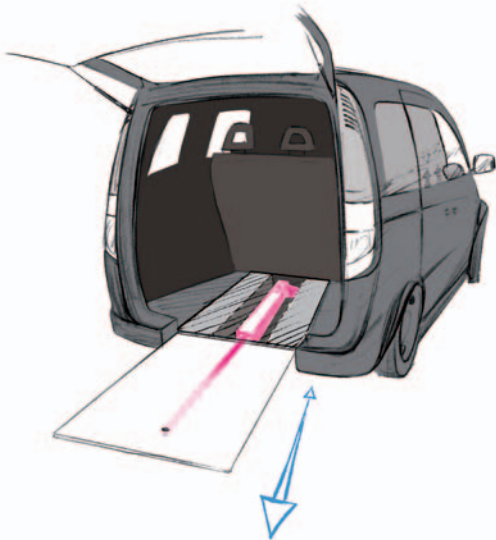
## RA linear actuators – with almost unlimited application possibilities

Based on their easy control and its high performance, the application possibilities of RA linear actuators are manifold.

From easy adjustment of components as lids or levers and control tasks during adjusting processes of all sorts up to lifting and moving of heavy loads – the RA linear actuators reliably serve their purpose. Independently, if used in heated inner rooms or outdoors under difficult environmental conditions.

RA linear actuators also can bear vibrations and shocks, so that they are also ideal for the use in vehicles. They can be used for the adjustment of loading devices of road vehicles or for the operation of heavy work facilities of agricultural machines and construction vehicles.

### Extend and retract vehicle ramps



With road vehicles, ramps or loading devices can be powerful and quietly put into the desired position by the RA linear actuator.

Without effort, loading edges and steps are overcome.

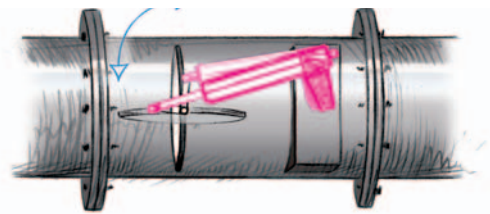
Standard vehicles become vehicles for the transport of disabled persons.

Delivery vans can be loaded comfortably with roll vehicles.

At the working place heavy loads can be easily lifted and provided with RA linear actuators. The operation by foot switches allows the operator exact positioning of the load with both hands.

For the use in lifting and handling devices, RA linear actuators meet the requirements of sensitive action. They contribute to the ergonomic design of the working place.

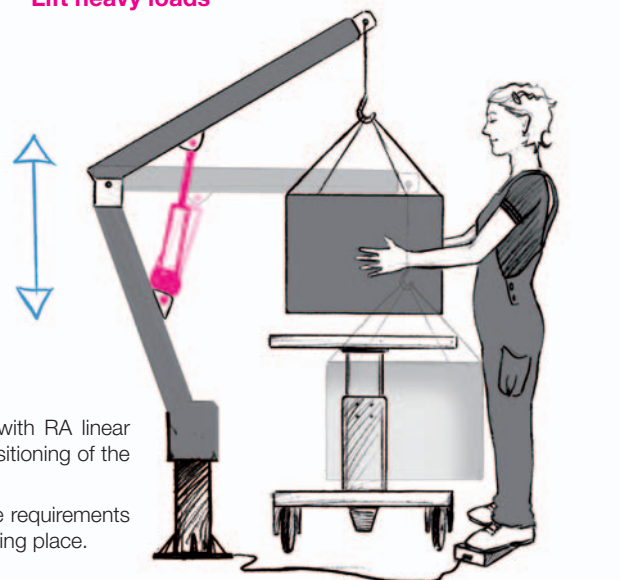
### Control pipeline fittings



In ventilation and pipe systems in chemistry or water engineering pipeline fittings are actuated by RA linear actuators.

The fittings are opened and closed by remote control or throughput quantities will be determined by the opening angle of the valve flaps according to the requirements.

### Lift heavy loads



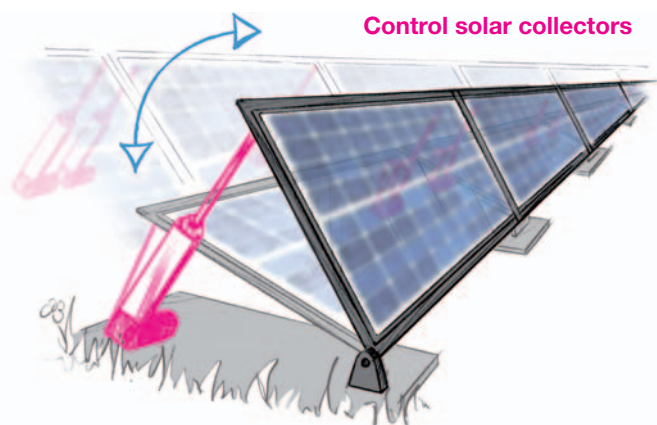


## RA linear actuators – sturdy, powerful and precise

Due to their simple and sturdy design RA linear actuators are a popular actuator in the drive technology. Corrosion and weather resistance as well as perfect protection against direct water exposure as per code class IP69K belong to their performance features as well as freedom from maintenance.

RA linear actuators can equally be used in applications, where only small forces are required, as well as for tasks that require high forces. RA linear actuators are available with maximal forces up to 6,000 N, that can be used as push force or pull force.

Whether RA linear actuators are only extended and retracted between the final positions, or if specific intermediate positions have to be controlled, the desired positions are always precisely reached.



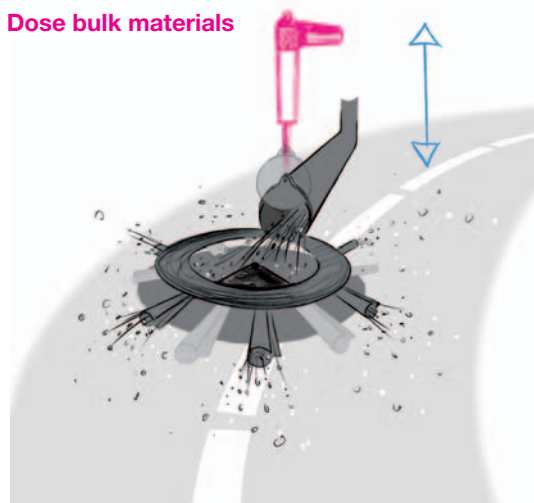
**Control solar collectors**

In solar systems with tracking, RA linear actuators control the sun collectors.

Sun collectors, mostly operated in a network, are steadily tracked to the stand of the sun in order to make the sun energy maximally usable.

So sun collectors are operated with optimum efficiency and the energy efficiency is increased.

**Dose bulk materials**

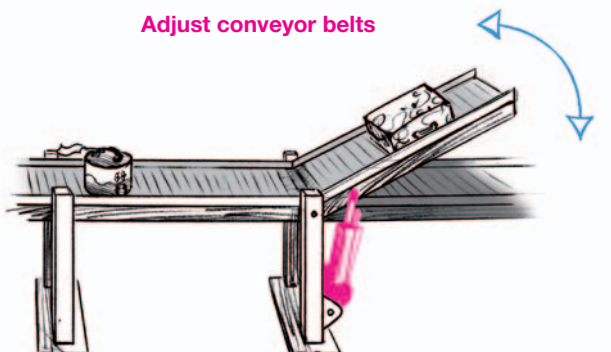


In land and communal vehicles RA linear actuators are used as actuators for the supply of fertilizers or road salt.

In dependence of the soil conditions or the vehicle speed, the required spread amount is exactly adjusted to the specific requirements.

Minimal output quantities guarantee that raw materials are used as efficiently as possible.

**Adjust conveyor belts**



In conveyor belt systems, the individual conveyor belt segments are directed with RA linear actuators to the desired transfer planes.

The exact control of the required heights guarantees a shock-free and smooth transport of the goods – even with different weights and centres of gravity of the material to be conveyed.



## The linear actuator **RA 600**


### Functioning and performance characteristics

The linear actuator RA 600 consists of a 24 V direct-current drive, whose drive energy is transmitted through a worm gear onto a mechanical self-locking spindle drive.

To meet specific stroke requirements the linear actuator RA 600 is supplied with 5 stroke lengths from 100 to 600 mm. Alternatively 3 force steps are available up to maximally 6,000 N.

Both the voltage supply and the control of both control versions is made by limit switches and position measuring system with 24 VDC direct current.

For applications where several linear units have to be operated in synchronism, the version with position measuring system is ideally suitable. As accessories, appropriate control units and operating elements are available.



**Strokes**  
100 mm  
150 mm  
200 mm  
400 mm  
600 mm

**Force steps**  
2,000 N  
4,000 N  
6,000 N

**Mounting positions**  
any

**Mounting**  
Ø 12 mm  
Ø 10 mm

**Maintenance**  
Maintenance-free

**Resistance**  
Corrosion  
Weather  
Disinfectants

**Operation**  
Push-button  
Control

**Voltage**  
24 VDC

**Control**  
Limit switch

**Position**  
Stroke measuring system

**Synchronization**  
Stroke measuring system

**Code classes**  
IP66  
IP69K

All details see data sheet **L 1.101**



## Worldwide Competence



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