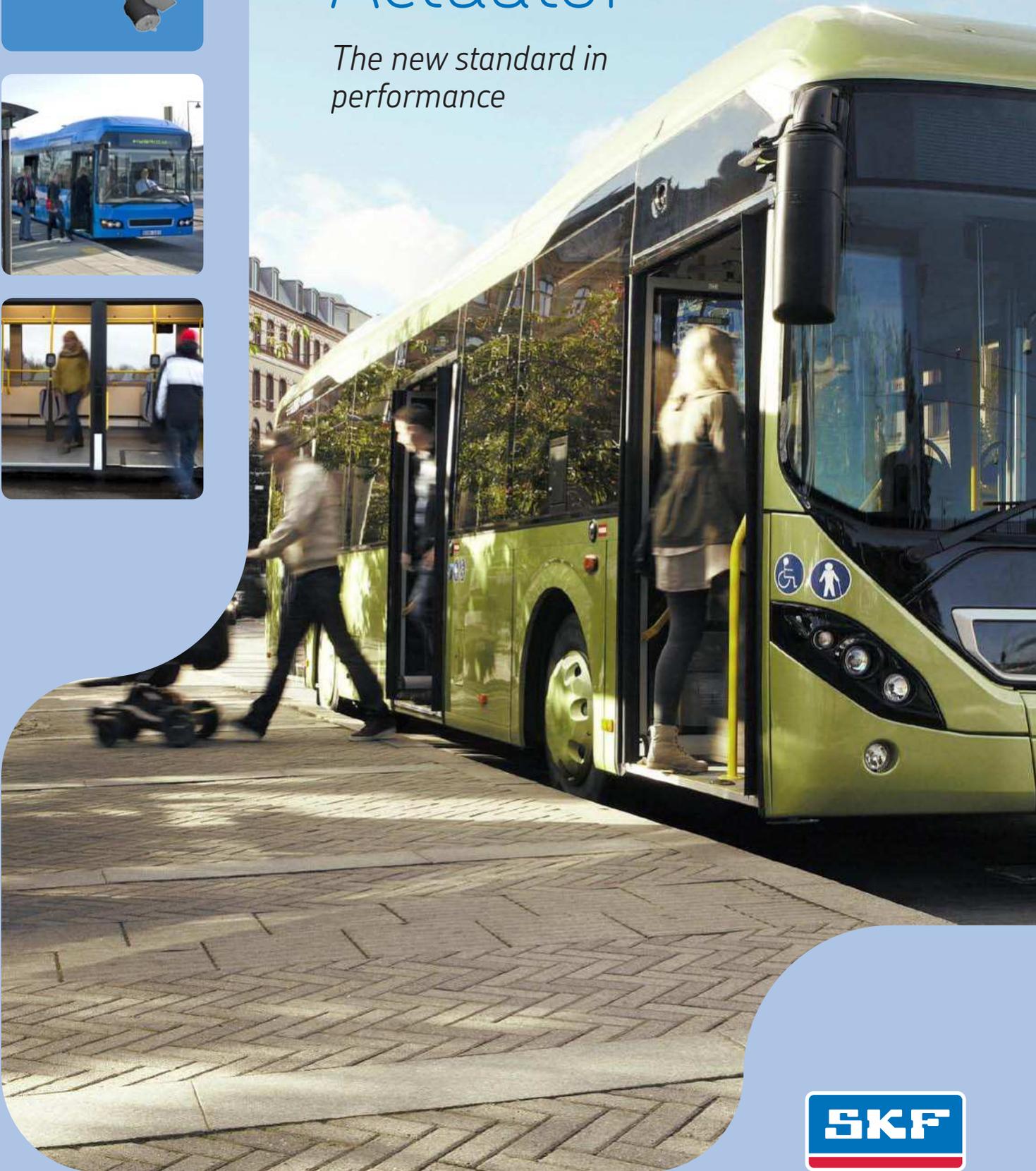


SKF Bus Door Actuator

The new standard in performance



Opening doors to improved

Bus uptime depends on reliable door performance. Most bus door problems are related to the commonly used come to step up to a better, modern solution. With SKF Bus Door Actuators, you can look forward to improved and a more cost-efficient operation.

A city bus must run and run. People are counting on it to get where they need to go – safely and on time. A bus should also get the most out of every drop of fuel. SKF Bus Door Actuators will help you to meet these challenges.

Reliable performance

Bus doors must operate safely and reliably in all kinds of weather and conditions, and withstand a lot of abuse. With SKF Bus Door Actuators, you can take reliability – and bus uptime – to new heights. The SKF solution uses robust and adaptive digital motion control for precision operation, with minimal or no sensitivity to variations in load, energy supply, wear and so on. For example, the doors will close with equal speed both at an uphill or downhill stop.

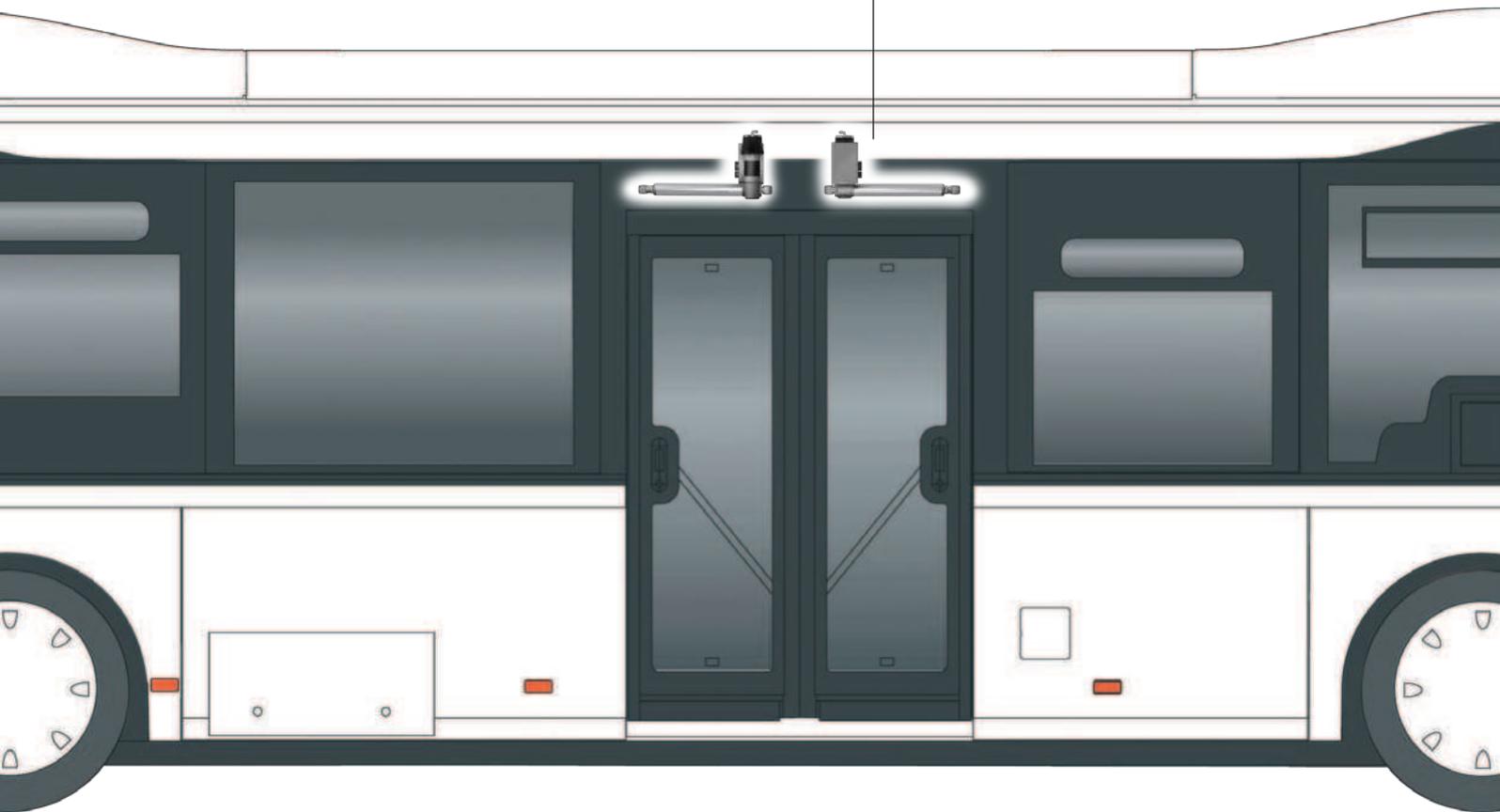
For more sustainable transport

Fuel is a major part of the total operating costs of a bus – so finding ways to improve fuel efficiency pays off. Reducing harmful emissions is also an important aspect of sustainable development efforts. SKF Bus Door Actuators reduce energy consumption by 80–90% compared to pneumatic drives, improving bus fuel efficiency by around 2%. This represents a yearly decrease in CO₂ emissions of 1,9 tonnes per bus in city traffic.

Operational benefits

- Enhanced passenger safety
- Reliable operation regardless of voltage, temperature, load and wear
- Installation and commissioning in minutes
- Maintenance free for maximum bus uptime and cost efficiency
- Less wear on the doors due to controlled motion
- 3-year warranty

SKF Bus Door Actuators help enhance passenger safety and convenience, while contributing to a more efficient and productive bus operation.



reliability and efficiency

pneumatic drive system. The time has reliability, reduced energy consumption

Environmental benefits

- Energy consumption reduced by 80–90% compared to pneumatic drives
- Improves bus fuel efficiency by 2%
- CO₂ emissions cut by 1,9 tonnes per bus in city traffic
- Silent operation for more pleasant experience for passengers and driver

Savings throughout the life cycle

Installation and commissioning is done in minutes. No individual tuning of valves and chokes is required. What is more, the need for service and maintenance is zero. At the end of its service life or if damaged from abuse, the actuator is quickly and easily replaced with a new one for minimal downtime. Since the motion control system is integrated in the actuator itself, an electrical door opening system helps reduce the total weight of the bus. Not to mention the weight savings of the smaller compressor.



SKF Bus Door Actuator

Electronic force monitor and overload protection for enhanced safety

Brushless motor for high reliability and efficiency

All metal, robust design to withstand abuse for a long service life

100% certified for bus requirements and regulations

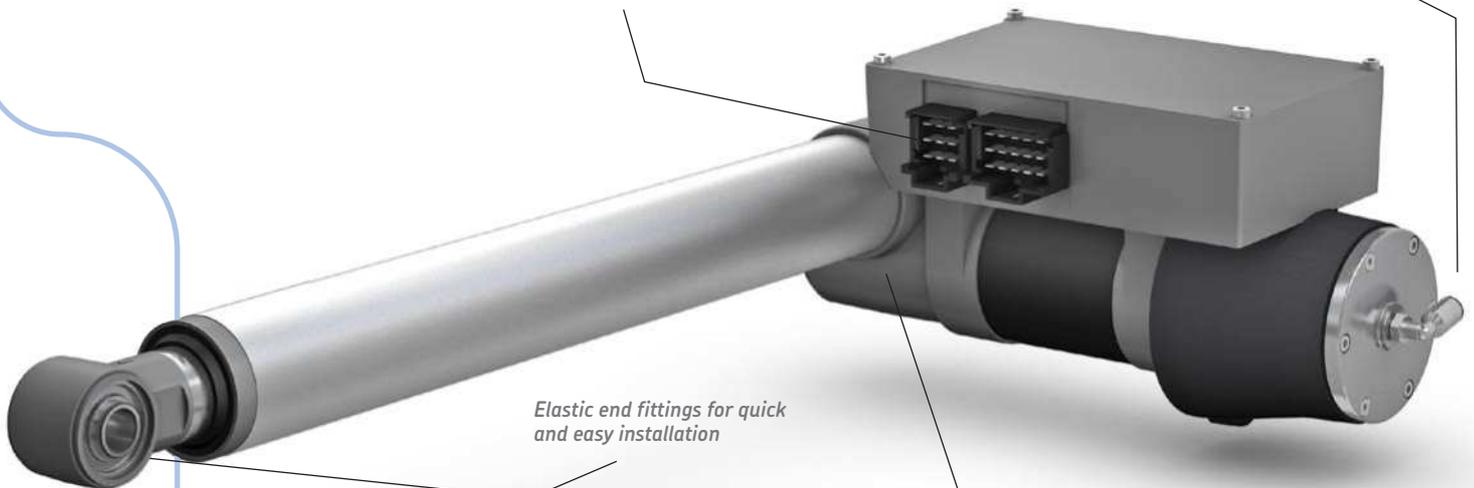
Programmable speed and motion control to meet the needs of every application

Patented electro-pneumatic emergency release brake

Elastic end fittings for quick and easy installation

Speed and force control for efficient operation

Back drivable transmission for emergency opening



A joint initiative with Volvo Buses Corporation

The SKF Bus Door Actuator is the result of a close collaborative project with Volvo Buses. What started out as a quest for improved efficiency and durability has evolved into a thoroughly tested and proven solution.

“This solution is a big step in the right direction,” says Edward Jobson, environmental manager at Volvo Buses. “You could compare the fuel savings with reducing the weight of the bus by around 500-700 kg.”

The life target of more than 1.5 million cycles, the equivalent of over 10 years’ usage, a vibration lab and climate chamber as well as in real vehicles on Volvo’s demanding test tracks.

Digitally synchronized for perfect motion

The Digital Signal Processor controlled motion path is adjustable, enabling jerk free and silent operation even at very fast operation, offering predictable movement and enhanced safety. With the SKF Bus Door Actuator, it is now possible to fully open or close a door in 2.5 seconds without rattle and bang – over and over again – while also reducing wear of the door mechanism. In addition, an SKF Bus Door Actuator can be used in all Volvo bus door applications.

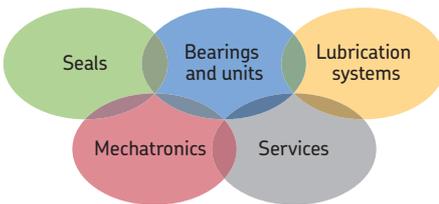
A new standard in performance is born.



Extensive duration tests have validated a life target of more than 1.5 million cycles over 10 years.



For more information about SKF Bus Door Actuators, please contact your local SKF representative.



The Power of Knowledge Engineering

Drawing on five areas of competence and application-specific expertise amassed over more than 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry worldwide. These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modelling to advanced condition monitoring and reliability and asset management systems. A global presence provides SKF customers uniform quality standards and worldwide product availability.

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