



WOERNER
Lubrication Experts since 1922

Reliable lubrication solutions for

ESCALATORS & MOVING WALKWAYS



GUIDED CHAIN LUBRICATION FOR ESCALATORS GCE-A

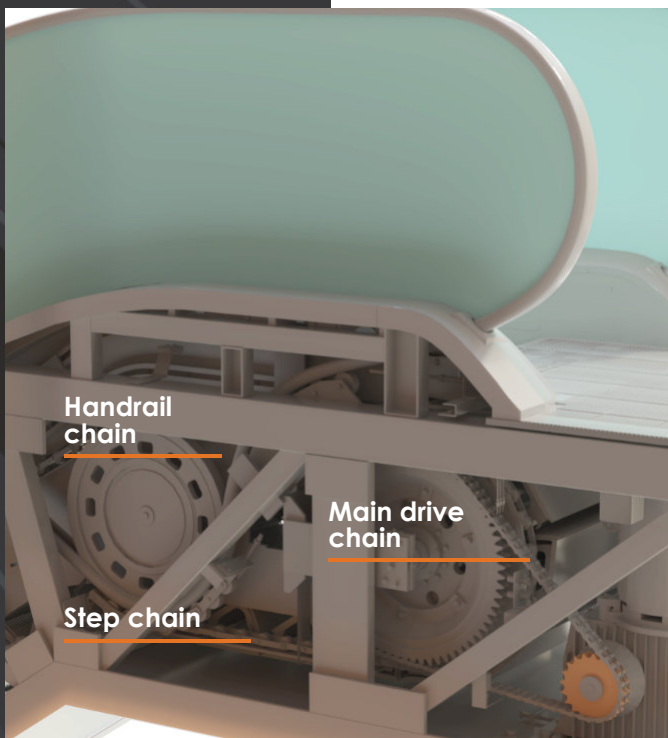
EFFICIENT LUBRICATION SOLUTION FOR LONG-LASTING AND RELIABLE OPERATION OF ESCALATORS AND MOVING WALKWAYS

Escalators and moving walkways are an indispensable part of modern infrastructure – especially in high-traffic areas with the highest demands on reliability, availability, and service life. Regular maintenance and proper, needs-based lubrication of the drive system ensure safe and cost-efficient long-term operation. They extend the service life of components, reduce noise, and minimize unplanned downtime.

CHALLENGES

- **Precise lubricant quantity required:** The lubricant must be applied accurately, as over-lubrication can lead to contamination, while under-lubrication increases mechanical stress and energy consumption.
- **Limited accessibility:** Components are often concealed or located in confined spaces, making maintenance and manual lubrication more difficult.
- **Impact of environmental factors:** The lubrication system must be resistant to dirt, moisture, and temperature fluctuations.
- **Restricted installation space:** Lubrication units must be compact, while still allowing flexible adjustment of dosing levels.
- **High continuous load:** Due to long daily operating hours, lubrication must remain consistently effective and reliable over time.

LUBRICATION POINTS



- **Main drive chain:** Connects the motor to the downstream chains and transmits the driving force to the escalator or moving walkway.
- **Step chain:** Links the individual steps of the escalator, ensuring they move synchronously and reliably along the drive system.
- **Handrail chain:** Ensures that the handrail moves in sync with the escalator or moving walkway, providing passengers with safe guidance.

Inadequate chain lubrication leads to wear, increased maintenance costs, downtime, and higher noise levels.

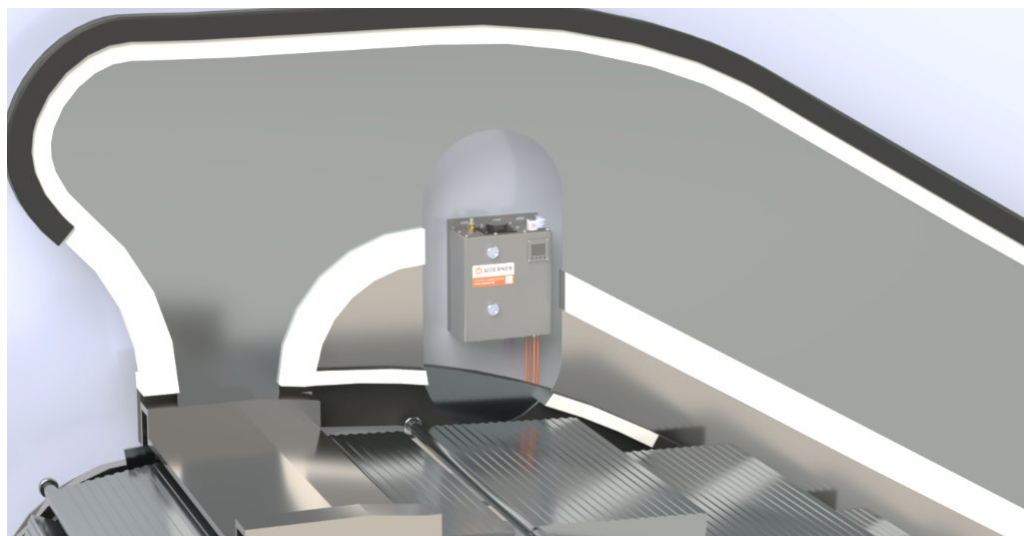
OUR SOLUTION



GCE-A – GUIDED CHAIN LUBRICATION FOR ESCALATORS

- **High number of lubrication points:** Up to 12 pump outlets ensure reliable supply to every lubrication point.
- **Individually adjustable lubricant dosing:** Up to 4 lubrication circuits can be controlled independently, allowing precise adjustment to specific requirements.
- **Reliable pump technology:** Piston pumps ensure accurate dosing and consistent lubrication – independent of temperature or back pressure.
- **High pressure range:** With pressures of up to 80 bar, even hard-to-reach or distant components are reliably supplied.
- **Process reliability:** A range of sensors monitors fill level, pressure, temperature, and pump function – detecting issues early before damage occurs.
- **Integrated control system:** Lubrication and pause intervals can be adjusted. Optionally, lubrication can be linked to the enable signal, ensuring cycles only run during operation and preventing over-lubrication during downtime.
- **Intelligent fault indication:** Errors are displayed directly on the unit and transmitted precisely to the control room via signals.

PERFECTLY SUITED FOR ESCALATOR INTEGRATION



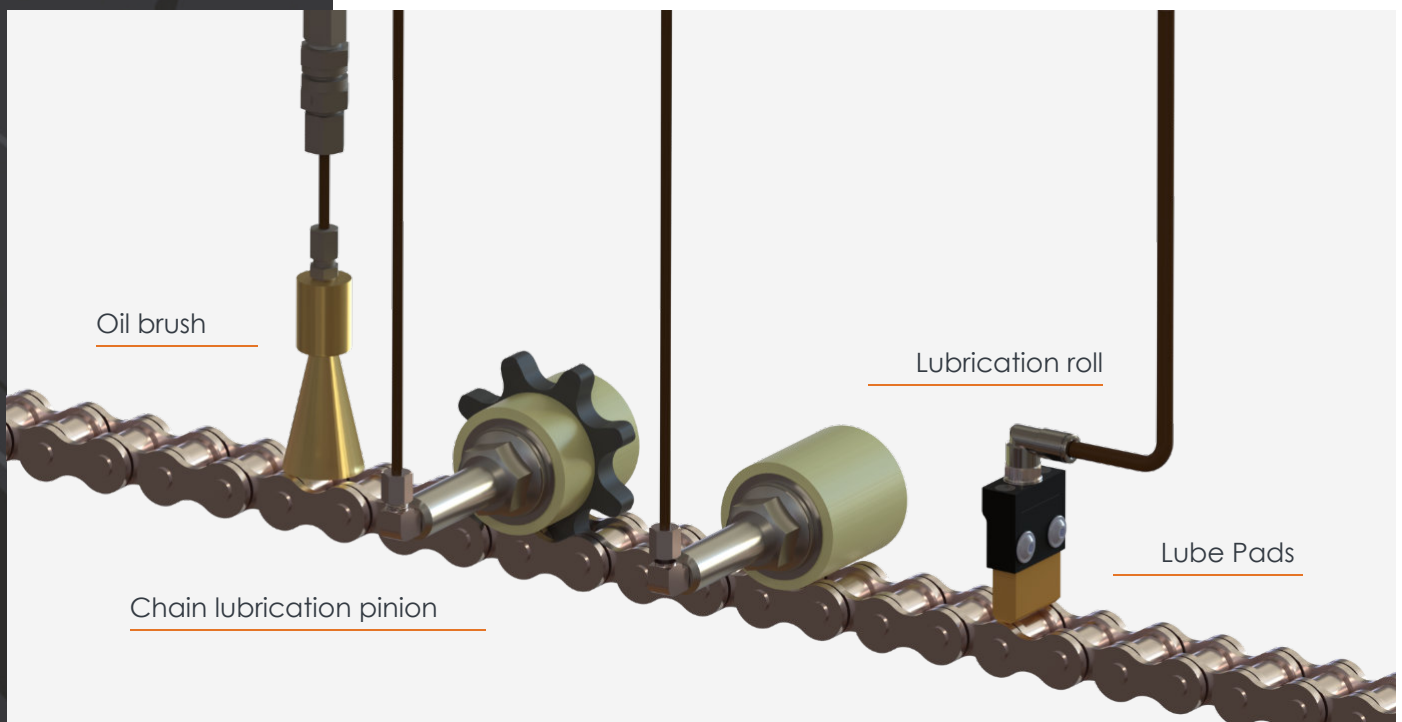
- **Optimized size:** Compact design for easy integration into escalators.
- **Modular system:** The pump unit features a modular design and can be individually configured as needed – allowing optimal adaptation to any application.

TECHNICAL DATA AND ACCESSORIES

Technical data

Filling capacity	7l
Tank material	Steel, powder-coated
Number of outlets	2 x 1 to 6, max. 12 outlets (single-cycle operation), 1 to 8 (multi-cycle operation, up to 4 individual lubrication cycles)
Delivery volume	0,04 cm ³ / stroke and outlet
Delivery pressure	max. 80 bar / outlet
Temperature range	-20 to +60°C
Medium	oil
Supply voltage	24V DC / 230V AC
Dimensions	310 x 380 x 165 mm
Control system	Individual adjustment of lubrication parameters, detailed error messages
Protection class	IP 54
Power consumption	max. 30 W

Chain applicators



Would you like to see the advantages of our solution in practical use?

We are happy to offer a trial installation of our solution for testing purposes. If you are interested or have any questions, please feel free to contact us – we will be glad to provide individual and personal advice.



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Together, we develop the right solution for your requirements –
innovative, efficient, and sustainable.

- Call us: **+49 9342 803-0**
- Visit us online: **www.woerner.de**
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