

# CRL 101–Automated Wheel Flange Lubrication

For Rails and Wheels of Cranes and Other Rail Vehicles



- Minimal wear of crane wheels and rails
- Exact, adjustable, metered quantity of lubricant reduces consumption
- Automated lubrication system for optimal adaptation to all operating conditions

# CRL 101-Automated Wheel Flange Lubrication

The Lincoln CRL 101 lubrication system was specially developed for the lubrication of slow moving rail type cranes. The system is suitable for all machinery that operates on a rail profile according to DIN 536 Part 1 (size A 45 to A 120) and that are slowly driven.

**Main applications are for all types of harbour cranes and special container handling systems, as well as overhead or gantry cranes as found in the steel industry**

## Lincoln CRL 101 Lubrication Operation

The Lincoln CRL 101 uses two lubrication rollers for the left and right flank of the crane rail to

### Validated Environmental Information

- The exact adjustable lubricant quantity reduces overall consumption and the environmental impact.
- The Lincoln lubrication system pumps high-viscous greases – thereby avoiding the dripping of lubricant onto the ground as in the case of oil lubrication.
- The Lincoln CRL 101 wheel flange lubrication is designed for all types of greases. Trouble-free usage of bio-degradable lubricants (list of approved greases available upon request)
- Lubrication reduces the squeaking of wheels

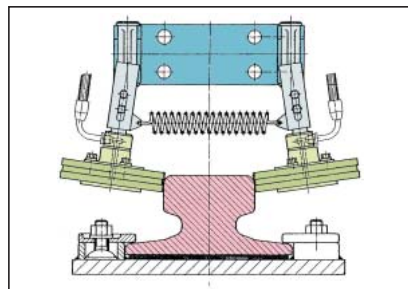
This product is manufactured in a facility that is validated and certified according to EMAS and DIN EN ISO 14001.

For Lincoln Environmental Declaration see [www.lincolnindustrial.de/Environment](http://www.lincolnindustrial.de/Environment)



Wheel Flange Lubrication

evenly apply lubricant. The lubrication rollers run parallel to the crane wheels. Wear is particularly high on rails and crane sides that do not run exactly parallel. This is a problem that occurs especially when the distance between the rails is very large. The lubricant supply to the lubricant rollers is typically provided by a Lincoln multi-line pump type 205 and a downstream progressive metering device type SSV6-K. The indicator pin on the metering device can be used to visual determine if lubricant is evenly flowing.



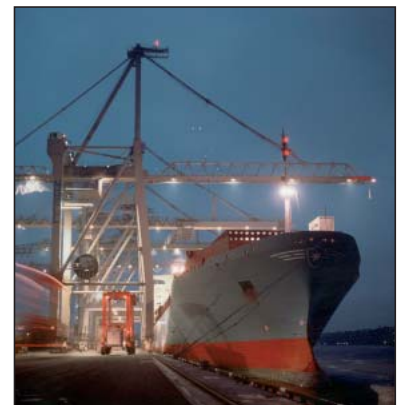
Set of Lubrication Rollers

## Lincoln CRL 101 Lubrication Advantages

The pump is available in different ratios and with an adjustable pump element, thus enabling the exact matching of output versus requirement. As a result, in most cases an electrical control panel for the pump is not required. The drive of the pump is simply run in tandem with that of the crane's drive. Naturally, if desired, a controller can be supplied.

The adjustable pump element enables the lubricant output to be accurately metered. This is not only economical as the lubricant consumption is minimized, but also the environmental impact is reduced.

The Lincoln automated lubrication is practically wearfree because the running lubrication rollers hardly wear down – contrary to wheel flange systems that use a brush type application.



Harbour Cranes

## Advantages of Automated Lubrication

Regular lubrication of rails drastically increases the life expectancy of the wheels and reduces the wear on the rail itself. This lowers repair costs and more importantly, reduces costly downtime.

## System Characteristics

- Reservoir capacity: 4l, 8l or 30l – optional electric level control
- For crane rail widths from 45 to 120mm
- R 1/4" lubrication line connection via flexible hose