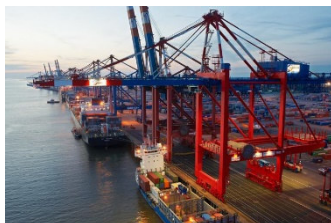


LUBRICATION TECHNOLOGY for rails and wheels of cranes

Application areas:

- all types of harbour cranes and special container handling systems
- overhead or gantry cranes as found in the heavy industry and the steel industry



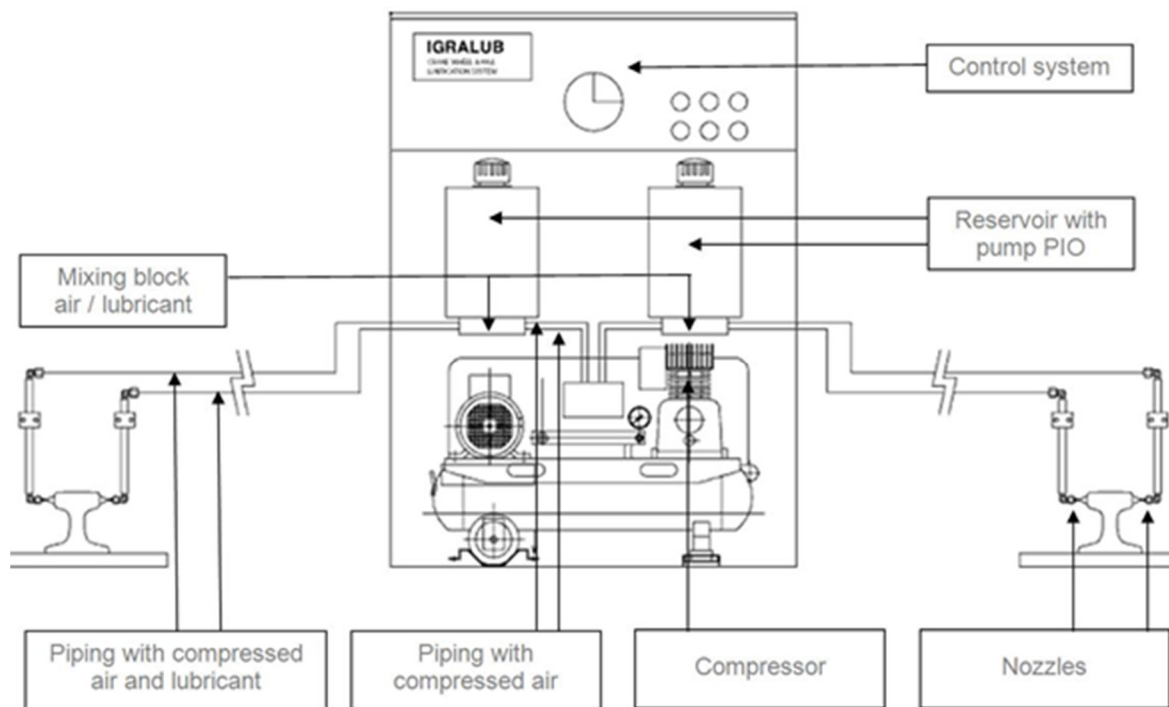
LUBRICATION SYSTEM



The system was originally designed for rail vehicles, to prevent wear between wheel and rail. Also, the noise should be minimized. This lubrication system can be optimally used for rails and wheels of cranes.

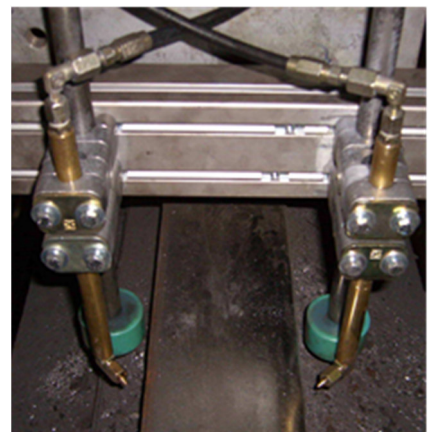
PROPERTIES

- 🟢 Measured coating lubricant supplied from the pump.
- 🟢 Compressed air and lubricant are mixed in a ratio of 9:1 and transported to the nozzles.
- 🟢 The precise amount of lubricant is sprayed with nozzles on both rail sides.
- 🟢 Coated only while crane wheels are moving.
- 🟢 The control system ensures optimum coating of the wheel / rail interface edges.
- 🟢 The spray amount from each nozzle can be adjusted separately.
- 🟢 Used in any shape of rail and wheel with non-contact method.



Compressor with Control

Nozzles



THE LUBRICANT FOR THE CRANE SYSTEM

RailLub® 90/CR

High-tech wheel flange lubricant for cranes

- 💧 New thickening system, no deposition of solid lubricant components.
- 💧 Specially developed lubricant with a high content of solid lubricant.
- 💧 Despite extreme pressure reduces the wear and friction between the surfaces by the formation of a solid film.
- 💧 More adhesion, better grip of the wheels and heads the overheating occurs faster.

Technical data

Properties	Unit	Dates	Testing
Penetration:	NLGI	000	DIN 51818
Unworked penetration:	25°C / 72 h	450-550 (1/10mm)	ISO 2137
Application temperature:	°C	-30°C - + 200°C	DIN 51825
Flash point (o.c.):	°C	>300	COC ISO 2592-1973
Base oil viscosity:	40°C mm ² /s	41-53	DIN 51562-1
Base oil pouring point:	°C	max. -40°C	ISO 3016
Density	20°C	0,96 g/cm ³	DIN 51757



Environmental compatibility:
Readily biodegradable according to OECD 301 B.

PERFORMANCE TEST

for 15 months

Operating time	Scaled	Wear
08/02/03	17.8mm	Installation
10/14/03	17.5mm	0.3mm
01/10/04	17.5mm	0.3mm
04/14/04	17.3mm	0.5mm
06/21/04	17.3mm	0.5mm
08/10/04	17.2mm	0.6mm
10/09/04	17.2mm	0.6mm



BENEFITS

- 💧 Increased productivity through time savings due to fewer large substitutions of wheel and rail.
- 💧 The reduction of wear between wheel and rail of cranes reduced the replacement up to 10 times.
- 💧 Rail can be used long time without replacement.
- 💧 Through economical application of the lubricant film, dirt or other contaminants to prevent.

REFERENCES



SAMSUNG HEAVY INDUSTRIES



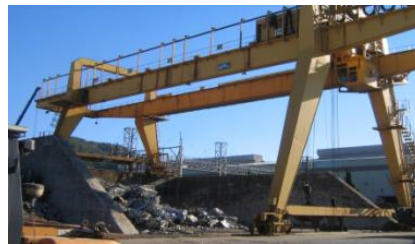
DSME (Daewoo Shipbuilding,
Marine Engineering)



SEAH STEEL, HYUNDAI



HYUNDAI HEAVY INDUSTRIES



CHANGWON STEEL



HANSAPORT

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