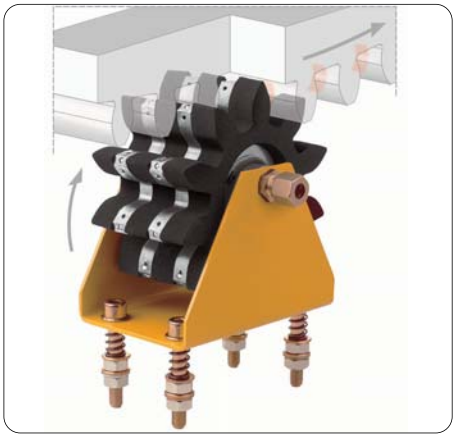
VOGEL®

Lubricating pinion

Automatic lubrication of the open gear via lubricating pinion

Currently the gear rims on wind energy stations (for azimuth and pitch) or tower cranes, construction and special equipment are greased manually. With the first revolutions this lubricant is pushed into the base of the tooth or to the outside via the tooth flanks. The result is inaccurate distribution of the lubricant in the contact area, incorrect dosage, dripping of the lubricant and the subsequentenen vironmental contamination. The system will not be supplied with fresh grease until the next service check.
For **automatic lubrication** Willy Vogel AG has developed a lubrication pinion which ensures **dosing as required** and pinpoint accurate lubricant distribution in the contact area.



Special system advantages

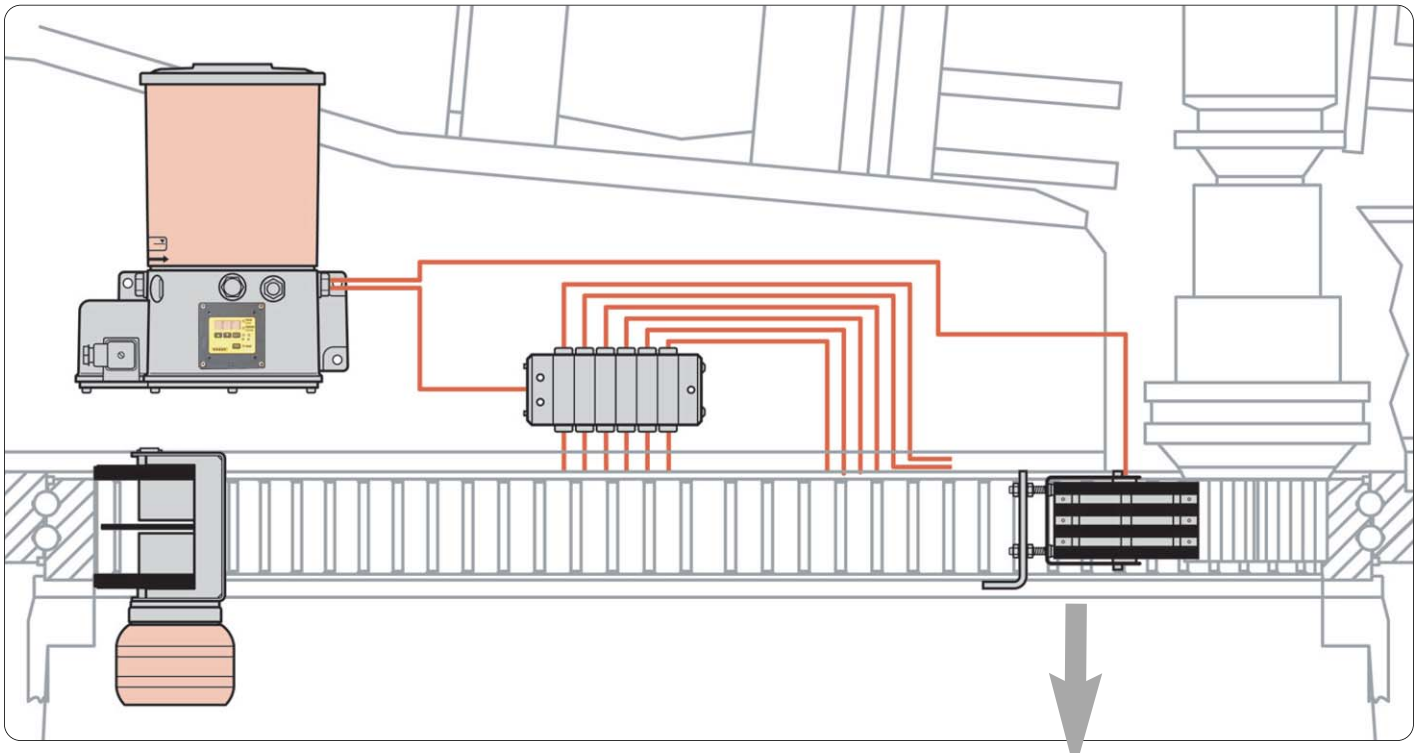
- Precisely adjustable dosing as required
- Pinpoint accurate lubricant distribution in the contact area
- even lubricant distribution across the entire width of the tooth
- durable
- taylor made solutions

resulting in:

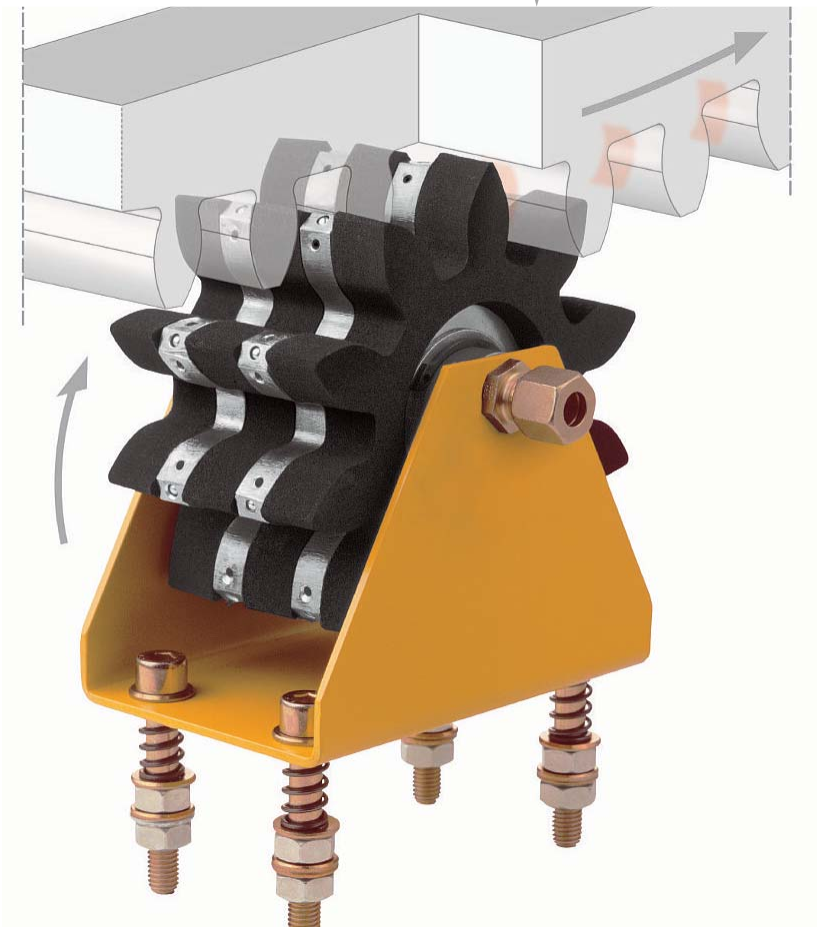
- Reduced lubricant consumption
- Pinpoint accurate lubricant distribution in the contact area
- Increased system availability
- reduced operating costs
- Environmentally friendly operation

SKF

Functional description

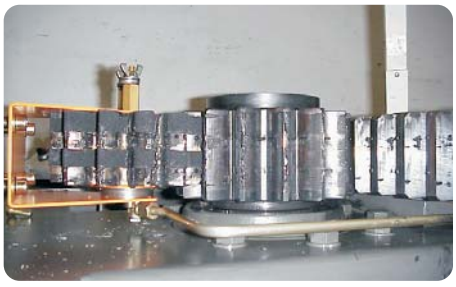


The lubricant is pressed into the axle of the lubricating pinion with a grease pump, and is taken through a bore hole into the lubrication channel of the lubricating pinion tooth that is in the process of intermeshing with the gear rim. All the other teeth of the lubricating pinion are not lubricated during this phase. The lubricant passing out through the tooth flanks is pinpoint accurately pushed into the contact area of the tooth flank and evenly distributed by means of the rolling movement of the lubricating pinion. The foam rubber layers ensure that the lubricant is evenly distributed across the entire width of the tooth. The metal gear wheels are resistant to wear and all lubricants and environmental influences.

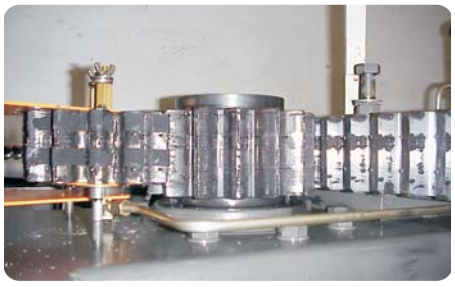


1-0302-US

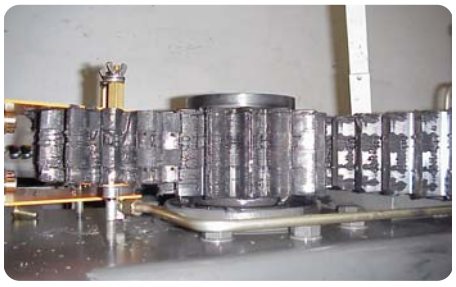
Lubrication sequence



Lubrication begins. First of all the lubricant spreads over the tooth flanks of the driving pinion. (The lubricating pinion is equipped with 2 foam rubber layers in this diagram.)



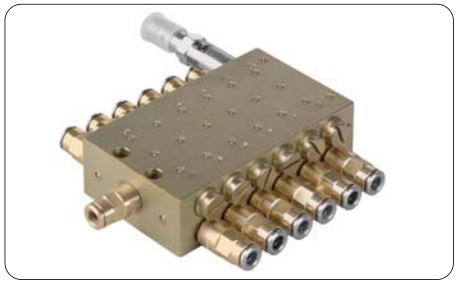
Moistening of the tooth flanks already begins at the height of the foam rubber layers, even before the lubricant reaches the base of the tooth.



The lubricant spreads over the tooth flanks. The spreading speed depends on the fed quantity of lubricant.

More products for open gear lubrication

Lubricant collector



Progressive distributors

Grease pumps

Leaflets

WINDLUB Centralized grease and oil lubrication system, progressive	1-3020-US
WINDLUB Grease single line centralized lubrication system	1-0300-US
Grease centralized lubrication system with heating system for extreme low temperatures	1-0318-US
Grease pump units	1-0107-2-US
Progressive distributors	1-0107-1-US
Lubricant collector	1-0303-US
Grease pump with exchangeable container	DSN 0-000-05-US

Please note:

All VOGEL products must be used correctly. If operating instructions are supplied with the products, any additional device-specific instructions and information given in those operating instructions should be applied.

Please note, that hazardous materials of any type, particularly materials classified as hazardous in EU Directive 67/548/EEC, article 2, para. 2, must not be used to fill or be pumped and/or distributed by VOGEL central lubrication systems and components without the prior written approval of VOGEL.

No products manufactured by VOGEL are approved for use with gases, liquefied gases, gases that are released under pressure, vapours and any liquids with a vapour pressure of more than 0.5 bars above normal atmospheric pressure (1013 mbars) at the maximum permitted temperature.

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