

your global specialist

Special knowledge

Conveyor systems

Automatic lubrication systems in use



Automatic lubrication systems

24/7 nonstop lubrication

Conveyor systems are used in all types of industries and in different environments. From the extreme weather of the quarrying industry to the hygienically sensitive conditions of the food industry, conveyor reliability is always directly related to profitability and efficiency. Since a conveyor system is a critical link in a company's ability to move its products in a timely fashion, any disruption can be costly. Proper lubrication is critical in helping to reduce component wear and contamination. However, some of the toughest lubrication problems are found in conveyor lines.

Maintenance teams are presented with long walking distances, ladders and stairs. Many lubrication points are located at hard to reach or dangerous places and cannot be properly lubricated or are overlooked completely.

Automatic lubrication systems from Klüber Lubrication are successfully being used worldwide for the lubrication of conveyor lines. They are economical, meet technical demands and drastically improve workplace safety.



Challenges

Conveyor system lubrication problems

Conveyor systems face some of the toughest lubrication problems. To prevent equipment downtime, conveyors require optimal lubrication despite extreme operating conditions (dust, dirt, water, weather, strong vibrations, long walking distances, etc.)

- Dirt and water must be kept from entering lubrication points
- Lubrication points must receive the right lubricant, in small amounts, at regular intervals - without the need to shut down the system

Risks

Lubrication points in difficult to reach and dangerous areas can prove fatal to the life of a worker.

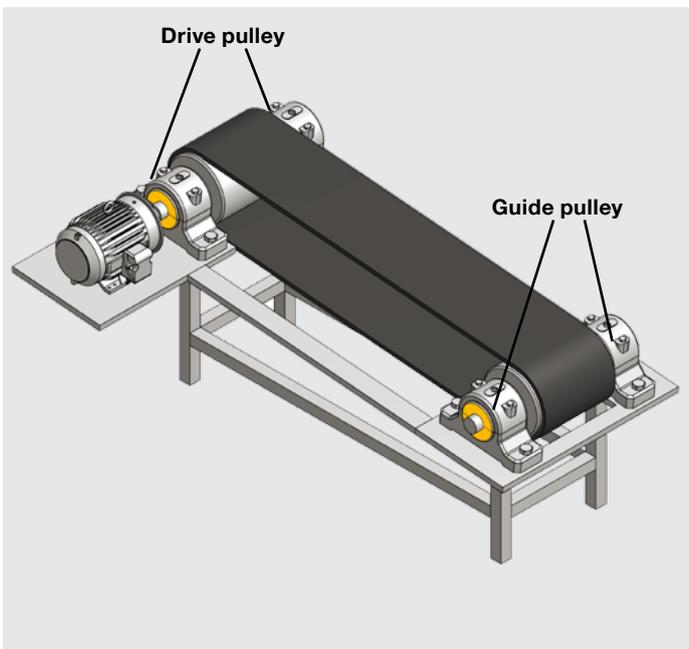
- High risk of workplace accidents

After-effects

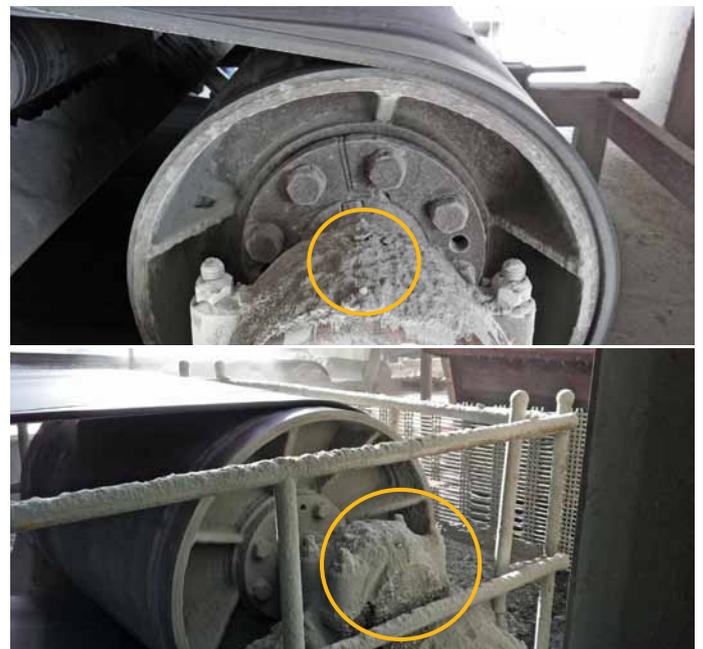
Compliance with manufacturer recommended re-lubrication intervals takes up a lot of maintenance time. But improper lubrication causes premature pulley and bearing damage and eventually shuts down a complete line.

- Unscheduled downtime and costly repairs as a result of premature wear

Lubrication points on conveyor systems



Conveyor model with 4 lubrication points



Risk of bearing damage from contaminated lubrication points

Solutions

Klübermatic CLASSIC / Klübermatic FUTURA

- Housing: Klübermatic CLASSIC - metal / Klübermatic FUTURA - transparent plastics
- Electrochemical / grease and oil
- Operating temperature: 0 to +40 °C
- Discharge period at 20 °C with SF01: 1, 3, 6 or 12 months
- Pressure build-up: max. 4 bar
- Lubricant volume: 120 cm³

Klübermatic CLASSIC: metal housing = ideal for rough environments

Klübermatic FUTURA: corrosion proof = ideal for hygienic clean environments



Klübermatic NOVA

- Housing: transparent plastics
- Electrochemical / grease and oil
- Operating temperature: -20 °C to +60 °C
- Discharge period: 1, 2, 3, 12 months
- Lubricant volume: 130 cm³

New technology with automatic temperature compensation



Klübermatic STAR VARIO

- Housing: transparent plastics
- Electromechanical / grease and oil
- Operating temperature: -10 °C to +50 °C
- Discharge period: 1, 3, 6, 12 months
- Pressure build-up: max. 5 bar
- Lubricant volume: 120 cm³, 250 cm³

One drive unit can be used with two different cartridge sizes



(left)
Lubrication system:
Klübermatic STAR VARIO with LC 250 cm³
(middle)

Lubrication system:
Klübermatic CLASSIC 120 cm³
(right)

Lubrication system:
Klübermatic STAR VARIO with LC 250 cm³

Benefits

What are the benefits for your?

- Permanent and safe lubrication, during machine operation
- Optimum supply of lube-point, therefore less equipment downtime
- Active contribution to environment protection and safety at work

	Product characteristics	Advantages	Benefits
economical	Klübermatic CLASSIC / Klübermatic FUTURA: Fully automatic lubrication at low cost	<ul style="list-style-type: none"> - Secure supplying of conveyor points with low to moderate pressing force at normal usage temperatures 	<ul style="list-style-type: none"> - Reduced maintenance costs - Higher equipment availability
	Klübermatic NOVA: Electronic control unit with integrated temperature compensation	<ul style="list-style-type: none"> - Consistent lubricant dispense at low and high usage temperatures - Reusable drive unit 	<ul style="list-style-type: none"> - Temperature-independent functionality - Short ROI due to reduced follow-up costs
	Klübermatic STAR VARIO: 1, 3, 6 or 12 months: Variable discharge periods, electromechanical	<ul style="list-style-type: none"> - Precise and customized discharge - Reusable drive unit 	<ul style="list-style-type: none"> - High process reliability - Short ROI
technical	Klübermatic CLASSIC: Metal housing with male-threaded cap made of plastic	<ul style="list-style-type: none"> - Simple, robust and reliable lubrication system with empty-status indicator 	<ul style="list-style-type: none"> - Secure supplying of bearing points at rough environmental conditions
	Klübermatic FUTURA: Transparent and non-corrosive plastic housing	<ul style="list-style-type: none"> - For use in hygienically-sensitive areas - Fill level of the lubricant is visible 	<ul style="list-style-type: none"> - Compliance with hygiene and environmental regulations - Simple visual fill-level indication
	Klübermatic NOVA: Electronic control unit with LCD display and push-button control	<ul style="list-style-type: none"> - Monthly discharge period from 1 to 12 months - Settings can be changed 	<ul style="list-style-type: none"> - Simple and variable in handling and at choosing the precise dispense amount
	Klübermatic STAR VARIO: Battery operated drive unit; 2 different LC units	<ul style="list-style-type: none"> - Fast, safe mounting at hard to reach lubrication points 	<ul style="list-style-type: none"> - More flexibility due to different LC units with various volumes
	Wide range of applications for all Klübermatic lubrication systems	<ul style="list-style-type: none"> - Extensive range of accessories and connection parts for each Klübermatic lubrication system 	<ul style="list-style-type: none"> - High application flexibility and easy installation
work-place safety	Klübermatic CLASSIC / Klübermatic FUTURA / Klübermatic NOVA: Ex-proof certification	<ul style="list-style-type: none"> - Can be used in areas where explosive atmospheres may occur 	<ul style="list-style-type: none"> - Safe and reliable lubrication in dangerous areas
	High application flexibility and easy installation for all Klübermatic lubrication systems	<ul style="list-style-type: none"> - Automatic lubrication of hard to access lubrication points possible - Remote mounting away from dangerous lubrication points 	<ul style="list-style-type: none"> - Increases workplace safety - Minimizes the risk of maintenance accidents

Klüber Lubrication – automatic lubrication systems

Klüber lubrication systems for conveyor systems

Klüber products have been used successfully on conveyor lines worldwide. They guarantee reliable automatic re-lubrication for conveyors in all types of industries and environments.

Take advantage of the benefits lubrication systems from Klüber Lubrication offer:

- 24 hour operation
- Simple installation
- Easy, tool-free exchange
- Requires little mounting space
- Tough systems - either battery operated or machine controlled
- Customized supply of fresh lubricants to lubrication points

Questions?

Visit our home page www.klueber.at or contact our experts directly. Just send an e-mail to engineering@at.klueber.com.

Applications for automatic lubrication systems

Bearings
Chain drives
Conveyor systems
Escalators
Fans / Blowers
Linear drive systems
Mills / crushers
Paint finishing systems
Presses
Pumps
Open gears
Sliding guides



Publisher and Copyright:
Klüber Lubrication Austria GmbH

Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München KG and if source is indicated and voucher copy is forwarded.

The data in this brochure is based on our general experience and knowledge at the time of printing and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary tests with the selected product. We recommend contacting our Technical Consulting Staff to discuss your specific application. If required and possible we will be pleased to provide a sample for testing.

Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this brochure at any time without notice.

Klüber Lubrication Austria GmbH
Franz-Wolfram-Schererstraße 32
A-5020 Salzburg

www.klueber.at

Klüber Lubrication – your global specialist

Our passion is creating innovative tribological solutions. Through personal support and consultation, we help our customers to be successful, around the globe, in every industry and in every market. By utilising complex engineering concepts and experienced, competent employees, we have mastered the growing demand for high-performance, cost-effective special lubricants for over 80 years.



Ein Unternehmen der Freudenberg Gruppe