

your global specialist

### Specialty lubricants for safety and reliability

Ski lifts, grooming equipment and snow cannons are all exposed to harsh climatic conditions. Ensuring reliable performance under such conditions can be quite a challenge for the lubricant: while the lubricant must ensure effective lubricity at temperatures down to -40°C so as not to overload the drive motor, it is equally important that the lubricant does not become too liquid in the summer heat, soiling people and the environment.

It is also important to consider compatibility with materials, as well as resistance to water and extreme vibration during operation. Good corrosion protection is also a necessity, since this contributes to operational reliability and to longevity of machinery. And of course lubricants are also expected to reduce the need for maintenance and hence minimize operating costs.

Not forgetting today's environmental aspects – “minimum quantity lubrication” is at the focus of every lubricant development.



### Specialty lubricants made by Klüber Lubrication

Klüber Lubrication offers a comprehensive line of lubricants that helps you meet the tough demands of your applications under extreme outdoor conditions. This booklet shows the range of our lubricants available and typical for lubricants suited to the mountain tourism industry.

Klüber Lubrication application engineers can help you with individualized product recommendations. We can also help to create and manage a lubrication program and train your maintenance personnel in efficient lubrication best practices.

#### Your benefits at a glance

- Operational reliability and safety
- Reduced maintenance and operating costs
- High operational efficiency and reduced downtime
- Wide range of rapidly biodegradable lubricants

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## Safety and reliability under harsh outdoor conditions.

Lubricant solutions for ski lifts and mountain tourism industry



# Lubricant solutions for ski lifts and mountain tourism industry

Type of equipment	Application	Lubricants*											Comments	
		ALTEMP Q NB 50	ISO FLEX TOPAS NB 52	Klüberbio BM 32-142	Klüber Summit DSL Series	Klüberplex BEM 41-132	Klüber synth EM 94-102	Klüber synth GEM 4 N series	Klüber synth GH 6 series	Klüberfluid 9 R 100	STRUCTOVIS GHD	UNISILKON GLK 112		
<b>Ski lifts / Cableways</b>	Carriage and haul rope support rollers and rope pulley bearings		■											To -50°C, high speed grease for ball bearings, good water and corrosion resistance
	Cable guide rail	■												Versatile multi-purpose grease with excellent corrosion and wear protection
	Grip mechanism - Fixed	■												Excellent assembly and lubricating paste with outstanding anti-fretting wear protection
	Grip mechanism - Fixed or detachable			■										To -40°C, rapidly biodegradable acc. to OECD 301F, good corrosion resistance
	Rope support saddles						■							Excellent assembly and lubricating paste with outstanding anti-fretting wear protection
	Electric motor bearings					■								To -40°C, rapidly biodegradable acc. to OECD 301F, good corrosion resistance
	Spur / Worm / Planetary gears							■						Versatile multi-purpose grease with excellent corrosion and wear protection
	Door mechanism / Door rubber seal								■				■	For plain and rolling bearings subject to high loads and water exposure
	Conveyor chains, tension and suspension ropes on roller chain													To -45°C, especially for friction points operating under medium loads and vibrations
	General assembly paste		■											Adhesive water resistant grease with excellent anti-fretting wear protection
	Wire ropes									■				To -40°C, long life at high temperature, good wear and corrosion protection
	Bearing in rake blade mechanism		■											Synthetic ester rapidly biodegradable oil acc. to CEC-L-33-A-93, good corrosion protection
<b>Snow grooming</b>	Drive track wheel bearing		■											Synthetic PAO oil offering excellent wear protection and long life
	Air compressors				■									Synthetic PAG oil offering outstanding lifetime, approvals by numerous gear OEM's
<b>Snow cannons</b>														To -50°C, excellent elastomer compatibility, recommended by door manufacturer
														Excellent adhesion, very good corrosion protection and water resistance

\*Most of the lubricants can be used in our Klübermatic automatic lubricant dispensers for single-point lubrication.