

## Customised lubrication solutions for your specific production situation

Corrugated cardboard is on the rise: there is growing demand for this important packaging material. This means that your production has to meet more stringent requirements in terms of quality, output and cost efficiency.

### Two thermally stable greases for your high-temperature bearings

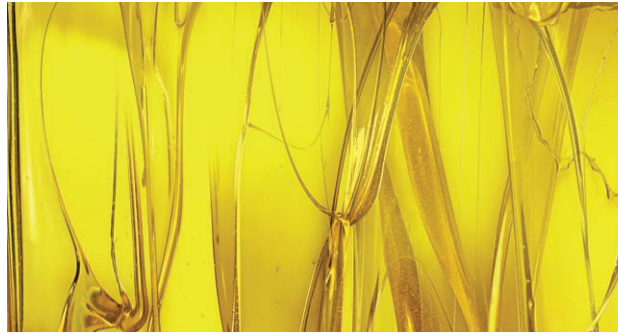
Your requirements:

- Temperatures up to 200 °C
- Production speeds up to 450 m/min
- Relubrication intervals up to 1,500 operating hours
- Aggressive ambient conditions

The biggest challenge is the lubrication of high-temperature bearings. This is the critical application determining the efficiency and reliability of your production operations.

We offer you the high-temperature greases **Klübertemp GR AR 555** and **Klübertherm HB 88-182**.

Depending on your operative goals, such as longer relubrication intervals or cost reduction, we will support you by offering the right lubricant for reliable and profitable production.



### Two powerful oils for corrugating rolls and disc-cut knives

Glue, being a major component of corrugated cardboard, can cause substantial problems in corrugating rolls and disc-cut knives. In both applications this challenge can be met with a single oil: **Klübersynth MZ 4-17**. It can help reduce premature wear and waste due to material contamination to a minimum with very low oil consumption.

Offering comparable performance, and the added benefit of NSF-H1 registration, **Klüber Summit HySyn FG 32** supports your compliance with the requirements of the food-processing and pharmaceutical industries.

#### All your benefits at a glance:

- Simple storage, no risk of mix-ups as a single lubricant is used for corrugating rolls and disc-cut knives
- Very low oil quantities, hence less waste of material due to contamination
- Longer knife life and extended maintenance intervals due to reliable anticorrosive effect and lubricity

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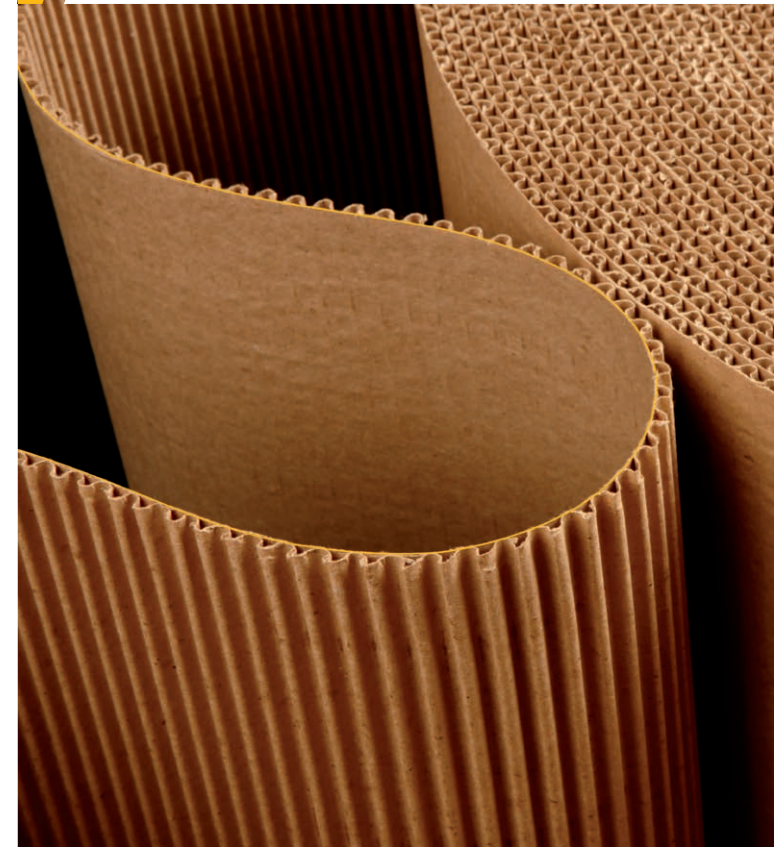
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 **FREUDENBERG**

**KLÜBER**  
LUBRICATION

your global specialist

The all-round package  
for your success.

Speciality lubricants for all applications  
in the corrugated cardboard industry

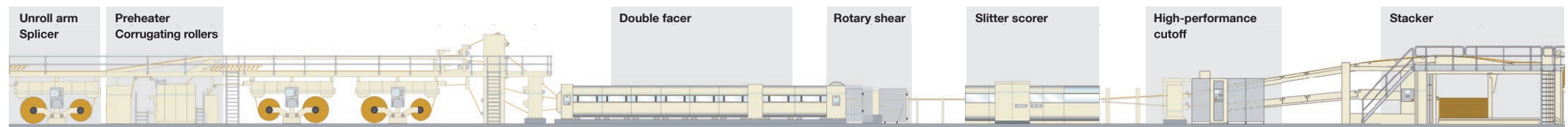


# Speciality lubricants for the cardboard industry

Machine	Lubrication point	Greases				Oils			Paste	Selection criteria for several products and viscosity classes
		Klübertemp GR AR 555	Klübertherm HB 88-182	GRAFLOSCON CA-ULTRA Spray	STABURAGS NBU 8 EP	Klübersynth MZ 4-17	Klüber Summit HySyn FG series or Klüberfood 4 NH1 series	Klüberoil 4 UH1 series	ALTEMP Q NB 50	
		High thermal resistance, extended relubrication intervals, for T > 180 °C	Customised high temperature grease, high volume yield due to low density, for T up to 180 °C	Adhesive lubricant containing graphite for smaller drives and surfaces, resistant to high pressure, very good adhesion	Extreme-pressure grease, good protection against tribocorrosion, reliable protection against wear also under varying loads	Lubricating and cleaning oil, prevents adhesion of glue and paper dust, very good wear protection	Lubricating and cleaning oil, prevents adhesion and protects against wear	Cleaning and corrosion protection oil, reliable adhesion, very good separating effect	Lubricating paste with high pressure absorption capacity, enables smooth motion without stick-slip	
<b>Unroll stand</b>	Sliding guide for unroll arm									
	Bearing swivel axis									
<b>Splicer</b>	Drive, gear wheels, toothed racks									
<b>Preheater</b>	Rolling bearings									Temperature level, machine type
<b>Corrugating rolls</b>	Rolling bearings									Temperature level, machine type
	Cleaning of corrugating rollers									H1 requirement
<b>Double facer</b>	Rolling bearings									
	Chains and chain wheels									
<b>Rotary shear</b>	Bearing bushing of knife									
	Cutting edge lubrication									Production rate
<b>Slitter scorer</b>	Separating oil for cut knife									H1 requirement
<b>High-performance cutoff</b>	Bearing bushing of knife									
	Cutting edge lubrication									Production rate
<b>Stacker</b>	Chains and chain wheels									
<b>NSF registration</b>		H1	-	-			H1	H1	-	

We offer you a comprehensive product portfolio also for your other applications such as compressors, gears or printing machines. We will be pleased to advise you. Just contact us.

## Process steps



Wet End

Dry End