



## Pan bearings – the core of your pellet press

Pan bearings play a decisive role in your production process – and they are subject to many harsh and varying conditions, such as:

- Wood dust
- High temperatures
- Moisture
- Corrosion
- Vibrations
- High loads

The lubrication of your pan bearings determines the efficiency and reliability of your production operations; and the lubricant plays an important role in optimising your machine utilisation. Suitable lubricants must fulfill specific technical requirements, such as:

- Temperature resistance up to 130 °C
- Protection against humidity and corrosion
- High pressure and load-carrying ability
- Sufficient base oil viscosity for low to medium speed combined with high loads
- Shear stability, and adhesiveness to the bearing as vibrations can influence grease structure and grease can be displaced from the raceway due to centrifugal forces
- Reliable pumpability by automatic lubrication systems in narrow pipes under vibrations and heat

## Two powerful greases for pan bearings

We offer you two suitable greases: Klüberlub BE 71-501 and Klübergrease BE 71-461. Depending on your operative goals, such as cost reduction via longer relubrication intervals, less consumption, etc., we will support you by providing the right lubricant for reliable and profitable production.

When it comes to ensure maximum operation efficiency, extending service intervals play a key role. Klüberlub BE 71-501 is a versatile lubricant for highly loaded bearings, which can contribute to reduced operating and maintenance costs due to low consumption. Klübergrease BE 71-461 offers considerable cost savings through an attractive price-performance ratio.

### Your benefits at a glance:

- Reduced wear
- Increased service intervals
- Considerable possibility for cost reduction


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your global specialist

## Optimise your machine utilisation.

Speciality lubricants for the wood pellet industry



# Speciality lubricants for the wood pellet industry

## A growing industry ...

The increasing demand for wood pellets for use in power plants worldwide puts pressure on production capacities, plant availability and calls for a reduction of maintenance and repair costs. Wood pellet presses are at the heart of the production chain and therefore critical units.

## ... presents challenges for you ...

The lifetime of the stressed components such as roller bearings as well as operational safety can be improved by selecting a suitable speciality lubricant meeting the extreme demands of the unit while reducing the costs for the aggregate.

## ... which we help to solve.

Klüber Lubrication offers a broad range of speciality lubricants developed to withstand the harsh, challenging environment of the wood pellet production process. Sounds interesting? Get in touch with our experts!

| Machine / application | Lubrication point                             | Klübergrease BE 71-461  | STABUTHERM GH 461 / 462  | Klüberlub BE 71-501  | Klüberlub BE 41-1501   | Klüberplex BEM 41-132   | Klübersynth GH 6-460  | GRAFLOSCON series   | Klüberfluid series, Klübersustain LG 39 series                                       |
|-----------------------|---|---|--|--|--|---|---|---|--|
|                       |   | High-temperature grease with strong anti-wear properties, very good adhesion and resistance to water. | High-temperature greases suitable for central lubrication systems. | Versatile grease for sealing and bearing lubrication. Good water resistance. | Heavy-duty grease. Good pressure absorption capacity, low consumption. | Versatile grease due to wide operating temperature range and optimised oil release. | For high loads and high temperatures. Energy savings due to optimised friction behaviour. | Excellent adhesion and backflow behaviour. Machine components stay clean. | Transparent lubricant for open gear drives for easy inspection. Reduces maintenance. |
|                       |   |   | Approved by Amandus Kahl, Bühler, van Aarsen and others            | Approved by Andritz F&B  |  |   | Approved by Amandus Kahl  | Approved by Santasalo, Kumera and others                                  | Approved by Santasalo, Kumera and others   |
| Debarking             | Open gear drive, riding ring, support rollers |   |  |  |  |   |   | x   | x  |
|                       | Bearings                                      |   |  |  | x  |   |   |   |  |
| Chipping              | Bearings                                      |   |  |  |  | x   |   |   |  |
|                       | Couplings                                     |   |  |  | x  |   |   |   |  |
| Hammer mill           | Bearings                                      | x   | x  |  |  |   |   |   |  |
| Drying                | Bearings                                      | x   | x  |  |  |   |   |   |  |
| Pelletising process   | Pan bearings in round and flat die presses    | x   | x  | x  | x  |   |   |   |  |
|                       | Worm gears in flat die presses                |   |  |  |  |   | x   |   |  |

The Klüber Lubrication product range includes high-quality lubricants for general gear box applications, as for example the Klüberoil GEM 1 series. We offer additional products for your other equipment as well as for specific requirements in your country. Please ask your Klüber Lubrications contact for more information.