



Bechem High Performance Lubricants for Construction Equipment



That 'Special!

A tradition we are proud of since 1834. This is still today demonstrated by our trademark: the Rhus Flower. After permanent development BECHEM is today a Global Player.

BECHEM special lubricants, industrial lubricants, metal working fluids and solutions for forming technology are based on our extensive experience in the development of special chemistry and latest tribologic knowledge. Our know-how with regard to friction, wear and lubrication always considers our customers' requirements for economic and ecologic optimisation of processes. We feel obliged to tradition and progress. That' Special!

Besides the head quarter in Hagen, BECHEM has two more production sites in Germany, i.e. in Mieste and Kierspe. In addition to that, our worldwide distribution network allows us to develop markets all over the world. With the daughter companies in France, India, Switzerland and China, as well as the Joint Ventures in the USA, South Africa, Sweden and Russia BECHEM shows its international presence. It is our target to supply our customers with high quality products and to simultaneously meet the valid international standards.

The quality of our products is confirmed by the certification according to the automotive standard ISO/TS 16949. The requirement to our standard is guaranteed by the systematically effected internal audits and regular inspections by the RWTÜV at all sites, as well as by audits carried out by our customers.

Application Areas:

Description	Bechem Product
Wire Rope	Bechem Premium WR 1000 Bechem High Lub FF 110
Telescopic Arms	Berulub PAL Series High Lub LFB 2000
Open Gear/Slew Ring	Berulit GA 800-2
High Performance EP Grease	High Lub LT2 EP High Lub LFB 2000
Lock Pins	High Lub SW 2
Anti-Seize Compound	Berulub Meissel Compound

What is the speciality – Advantages?

Wire Rope Lubricant:

➤ Bechem Premium 1000 WR:

BECHEM Premium 1000 WR is a specially designed grease to lubricate wire ropes that are exposed to extreme frictional conditions. The grease has excellent corrosion protection and water resistance properties, Provides long term lubrication, Continuous film at high loads drip free, Excellent corrosion protection, Provides good Water Resistance. Service temperature -30°C to +80°C

➤ Bechem High Lub FF 110:

Lubricant and corrosion protection agent for wire ropes. BECHEM High-Lub FF 110 is a solvent based adhesive lubricant and corrosion protection agent suitable for twisted ropes.

BECHEM High-Lub FF 110 has especially been developed for re lubrication under the influence of pulsating bending stresses. It provides excellent long-term corrosion protection especially under outdoor conditions. The load carrying properties provide wear protection even in mixed friction conditions and creep rates.

Service temperature -20 °C to +80 °C

Rope Fatigue Test under Constant Tensile stress and forced Pulsating bending stress

Analysis of Lubricating condition after 60,000 alternating bending's

Bechem Highlub FF 110 impregnating fluid has a very good capillary and penetrates into the various wire layers. Produces and excellent reconditioning effect on the basic lubricant. The photo below shows that the contact pattern of the rope is fully intact without any notches or other abrasive damages.



Telescopic Boom Lubricant:

➤ BERULUB PAL:

Fully synthetic multipurpose paste containing PTFE as solid lubricant. Improves the sliding ability of non-ferrous metal/ non-ferrous metal or metal/metal and plastics/plastics contacts. To dampen the sound conducted through solids and vibrations of parts made of polymers. During retraction and extension of the telescope sections the PAL is completely distributed uniformly on the whole contact surface due to the polyamide sliders.

Especially suitable for long life lubrication of high-loaded pressure and guide pads for telescopic mobile crane arms. Service temperature: - 20 °C up to+ 150 °C



- No Excess Lubrication
- Efficient application without waste
- No mess to Clean up/No drip off
- Prolong boom wear pad life

➤ HIGH-LUB LFB 2000:

To lubricate plain and roller bearings and to reduce friction and wear on mechanisms subjected to high load reduce friction and wear on mechanisms subjected to high load. For all industrial sectors. Water that has been absorbed by the grease will neither affect its consistency nor corrosion protection properties. In addition to its excellent ageing resistance and load carrying capacity, HIGH-LUB LFB 2000 has good adhesion and is resistant to hot and cold water. White solid lubricants in the grease prevent the metal-to-metal-contact in the area of mixed and boundary friction. This helps reduce the coefficient of friction even at high surface pressure and results in less wear. Its high lubricating effectiveness helps prolong relubrication intervals. HIGH-LUB LFB 2000 is lead-free. Service temperature: - 20 °C up to +120 °C

Open Gear/Slew Ring Lubricant:

➤ Berulit GA 800-



Berulit GA 800-2 grease for metal parts operating under heavy loads and high circumferential speeds to be applied by manually. Ensures high operational reliability of gear drives even under adverse dynamic or thermal conditions. Very good adherence, High pressure resistance of the lubricating film, excellent wear and corrosion protection, No hardening or brittling of lubricant film, Contains no bituminous ingredients, solvents or toxic heavy metals. Service temperature -10 °C to +180 °C

BECHEM Universal and Longlife EP-Greases:

➤ High Lub LT2 EP



To lubricate plain and roller bearings as well as guideways operating in a service temperature range from – 20 up to + 120 °C, short term + 140 °C as well as at high loads and speeds that tolerate grease lubrication. Apart from very efficient corrosion protection and antiaging additives the grease is also equipped with EP additives to improve the product's lubricating properties at high loads.

Lock Pins:

- High Lub SW 2

To lubricate plain and roller bearings exposed to mixed friction conditions and to protect sliding mechanisms especially wire ropes from corrosion and the corrosive attack of aggressive waters or gases. Suitable for all speeds that tolerate grease lubrication. Service temperature: - 25 °C up to +80 °C



Anti-Seize Compound:

- Berulub Meissel Compound

Berulub Meissel compound is an adhesive high temperature chisel paste to prevent seizure, improper functioning or unwanted and premature wear of plug-in tools and wearing bushings such as used in hydraulic or pneumatic hammers. Berulub Meissel compound is based on chemically neutral components and is equipped with special additives as well as solid lubricants such as copper and graphite. Anti-seize film helps to prevent normal corrosion and fretting corrosion. Service temperature -20 °C to +1100 °C