



BECHEM SA LUBRICATION SOLUTIONS



Products and services at a glance

BECHEM – reliable partner for the industry all over the world.



- ◆ BECHEM subsidiary / joint venture
- BECHEM distribution partner

CARL BECHEM GMBH is certified according to DIN ISO / TS 16949, DIN EN ISO 9001.





BECHEM is one of the leading manufacturers of high-quality special lubricants and metal working fluids.

BECHEM is a development partner of the industry with high competence for tailor-made solutions, regardless of whether for the development of for-life lubricants for the automotive industry, machinery and plant engineering, or process optimization in forming and machinery operations.

Close cooperation with research institutes, industry partners and product users as well as knowledge, skills and major commitment of our staff are guarantees for new and innovative high-performance lubricants. With the extended lifetime of components, machines, and tools they considerably contribute to the success of our customers. A powerful network of distributors and several national and international production sites guarantee permanent technical support and ensure that our products are readily available worldwide.



Carl Bechem Africa since 1985

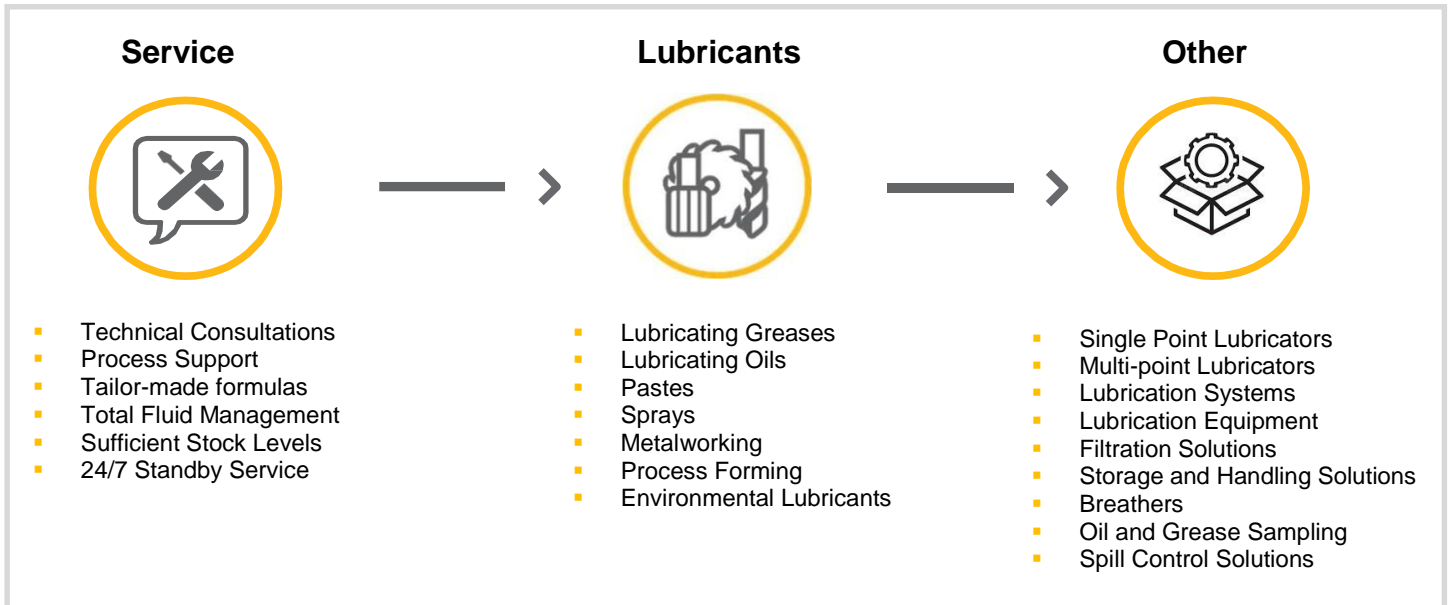
Oldest Joint Venture

Carl Bechem GMBH since 1834 –



BECHEM Solutions.

BECHEM offers solutions for Automotive applications, fittings, rail applications, electrical contacts, chassis and brake systems, gear lubrication, hydraulic applications, plastic lubrication, food and pharmaceutical industry, process media for all metal working industries, heavy industry, mining industry, steel industry, sugar industry, cement industry, textile industry, etc.



BECHEM Services.

Technical Support

BECHEM's competent application engineers offer their customers quick technical support. In addition to lubricant analysis; construction parts, materials or process fluids are tested by means of modern chemical-physical appliances in our laboratory within a short period of time.

Symposia and customer seminars

BECHEM does not only offer solutions to application related problems, but we also communicate our lubricant know-how according to the latest tribological knowledge on various symposia and customer seminars. This is an important contribution to knowledge transfer between research and practice.

Tribological know-how – always readily available

The BECHEM ABC of lubrication, available as app, allows all technical interested and professional users mobile access to more than 400 alphabetically arranged definitions pertaining to the subject of lubricants.



Please ask your BECHEM representative for your BECHEM brochure



Detailed specifications of our branded products and interesting information about lubricants can be found in our catalogue "Lubrication Solutions for Industry".

BECHEM Lubrication Products.

For most demanding applications in automotive technology, machine and plant engineering, aeronautics, or the rough conditions in the heavy industry, BECHEM offers the user a wide range of high-performance lubricants to solve various tribological problems. This range includes lubricating greases and pastes, lubricating oils, anti-friction coatings as well as process media which cover the entire field of metal working operations.

Lubricating Greases

Roller and plain bearings, Open and closed gears, Plastic lubrication, Fittings, Electrical contacts, Rail Applications.

Lubricating Oils

Hydraulic fluids, Gear and circulation oils, Chain oils, Silicon oils, Compressor, and pneumatic oils.

Pastes

Multi-purpose lubricating and assembly pastes.

Chain Oils

High-temperature, Low-temperature chain oils, chain oils for the food and pharmaceutical industry.

Sprays

Wire rope, Brake cleaner, Antiseizure, Chains, Rust and grease solvent, Open gears, Anti-corrosion agent, etc.

Greases and Oils for the food and pharmaceutical industry

Lubrication oils and greases with the NSF-H1 approval; in addition, many products are certified as Halal and Kosher.

Process media for metal removal operations

Water soluble, mineral oil free coolants. Water miscible coolants for aluminum processing, Water miscible coolants for steel processing, Process media for high-performance machining operations, Viscous, water-based coolants, Non water miscible coolants, minimal quantity lubricants.

Process media for forming technology

Sheet forming, Wire drawing, Cold forming, Massive forming, Tube drawing

Anti-friction coatings

Air-drying and heat-curing long life coatings for metal and plastic material combinations, elastomers, leather and foils using different lubricating and anti-wear additives as well as nano and microcapsule technologies.

Environmentally compatible lubricants and additives

Lubricating oils, Lubricating greases, Rail lubricants

Corrosion protection and cleaners

Dewatering fluids, corrosion protection oils, cleaners based on synthetic hydrocarbons, concentrate for aqueous cleaners.



BECHEM Lubricator 125 Specially developed for the food industry

BECHEM speciality lubricants have been developed for highly loaded machine elements in the food, feed and pharmaceutical industries. They excel in demanding applications, such as in dairies, coffee roasting plants, large slaughterhouses, canning and frozen food factories, canteen kitchens and the beverage industry.

The top products are of course H1-registered, Halal and Kosher certified as well as ISO 21469 certified.



BECHEM lubricants packaging.



Environmental Products.

Oil and Chemical Spill Kits

- Vehicle spill control kit
- Mobile spill control kit
- Refill kits

A spill kit is a well-organized set of equipment that has been specifically designed to deal with cleaning up dangerous substances. It enables you to efficiently clean the spill in the safest way possible. Spill kits come in many different forms and can purpose different types of spills. There are kits in duffle bags, wheelie bins and even trailers. The typical contents of a spill kit include

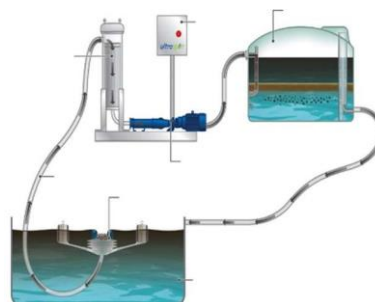
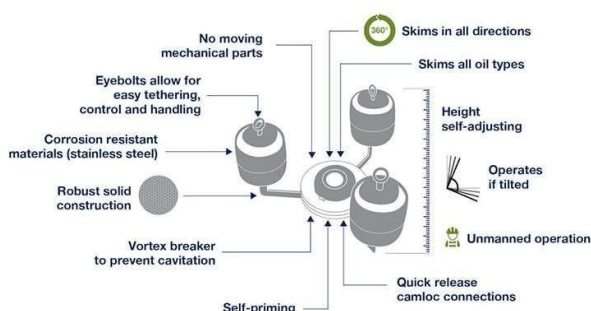
- Waste disposal bags
- PPE wear (personal protective equipment)
- Absorbents for soaking up the spill
- A containment boom for preventing further spread of the spill
- Broom and spark proof shovel
- Dispersants (in some cases)



Free oil recovery systems

Free Oil Recovery Systems (FOR) is used for applications with gross oil loads or potential risks for oil spills, and for gross oil skimming from effluent collection pits.

- Oil and water separators
- Floating skimmers



Typical applications

- Dams, water storage areas
- Workshops
- Refueling areas
- Lube bays
- Fuel storage
- Vehicle wash stations
- Anywhere there is a risk of oil spill



ESSEX

OIL COMPANY

ESSEX at a glance.

ESSEX manufactures high quality commodity lubricants locally to compete with the non-speciality market.

ESSEX product range also consists of leading brands in the lubrication industry.

Our Solutions.

- Lubrication Products
 - Gear Oils
 - Hydraulic Oils
 - Engine Oils
 - Automotive Oils
 - Transformer Oils
 - Lubrication Systems
 - Lubrication Equipment
 - Environmental Products and Equipment
 - Lubricant Storage and Transfer Solutions
 - Lubricant Colour Coding Solutions
 - Desiccant Breathers
 - Filters
 - Filtration Solutions – Rental options available
 - Vacuum Dehydrators – Rental options available
 - Oil and Grease Sampling
-

Product Range.



WEB: www.essexlubra.com

EMAIL: essex@essexlubra.com

Sasol lubricant products.

Authorized distributor for Sasol Oil Range



SASOL

- Lubrication Products:
 - Gear Oils
 - Hydraulic Oils
 - Engine Oils
 - Automotive Oils
- Supplier of Sasol Forecourt Oils



Engine Crankcase

- Engine Oil 2 Stroke SAE 20
- Engine Oil Monograde 30 SAE 30
- Engine Oil Monograde 40 SAE 40
- Engine Oil Multigrade L SAE 20W50
- Engine Oil Multigrade F SAE 20W50
- Engine Oil Multigrade RI 4 SAE 15W40
- Engine Oil Multigrade RH 4 SAE 15W40
- Engine Oil Synthetic M SAE 5W40



Coolant System

Coolant Conc 100

Transmission

- Gearbox Oil SAE 80W90 GL4
- ATF RDXII

Brake System

Brake Fluid DOT 4 SAE J1704

Differentials & Axles

Differential Oil RS SAE 80W90 GL5

ESSEX lubricant products.

ESSEX
OIL COMPANY



LUBRICATION PROTECTION FOR ON-ROAD TRUCKS

Engine Crankcase

Essex Engine Oil SAE 15W40 SL/CI4
Essex Engine Oil SAE 20W50
Essex Engine Oil SAE 10W40

Retarder

Essex Transmission GL 4 SAE 80W90
Essex Transmission GL 4 SAE 85W140

Coolant System

Essex Antifreeze T 100%
Essex Antifreeze T 50%

Grease Points, Rods

Pins & Bearings

Bechem High-Lub LT 2 EP SEB
Bechem High-Lub LFB 2000

Clutch Bearings

Bechem High-Lub LT 2 EP SEB

King Pin & Fifth Wheel

Bechem High-Lub LFB 2000
Bechem High-Lub FA 50 MO



AUTHORIZED DISTRIBUTOR AND INSTALLER
Recommendation for ON-ROAD TRUCKS

- Centralised Lubrication Systems

Wheel Bearings

Bechem High-Lub LT 2 EP SEB
Essex Lithium Complex WB EP2

Differentials & Axles

Essex Differential Oil GL 5 80W90
Essex Differential Oil GL 5 85W140

LUBRICATION PROTECTION FOR AGRICULTURAL

Engine Crankcase

Essex Engine Oil SAE 15W40 SL/CI4
Essex Engine Oil SAE 20W50
Essex Engine Oil Syn SAE 10W40 SL/CI4
Essex STOU 20W40

Coolant System

Essex Antifreeze T 100%
Essex Antifreeze T 50%

Pins & Bushes

Bechem High-Lub LT 2 EP SEB
Bechem High-Lub LFB 2000

Bearings

Bechem High-Lub LT 2 EP SEB
Bechem High-Lub LFB 2000



AUTHORIZED DISTRIBUTOR AND INSTALLER
Recommendation for AGRICULTURAL

- Centralised Lubrication Systems

Hydraulic System

Essex UTTO 10W30
Essex Hydraulic T68
Essex STOU 20W40

Differentials & Axles

Essex UTTO 10W30
Essex CAT TO4 - SAE 30
Essex Differential GL5 EP 80W90
Essex STOU 20W40

LUBRICATION PROTECTION FOR MOBILE CRANES

Hydraulic System

Essex CAT TO4 - 10W
Essex Hydraulic T 68

Wire Rope & Open Gears

Bechem Beruprotect Rope Spray
Bechem Berulit GA 400
Bechem Berulit GA 2500 Spray

Telescopic Boom

Bechem Berulub PAL 1
Bechem Berulub Palfluid Spray



AUTHORIZED DISTRIBUTOR AND INSTALLER
Recommendation for MOBILE CRANES

- Centralised Lubrication Systems

Coolant System

Essex Antifreeze T 100%
Essex Antifreeze T 50%

Engine Crankcase

Essex Engine Oil SAE 15W40 SL/CI4
Essex Engine Oil Syn SAE 10W40 SL/CI4

Bearings

Bechem High-Lub LT 2 EP SEB
Bechem High-Lub LFB 2000
Bechem High-Lub FA 67-400 KS

Differentials & Axles

Essex Differential Oil GL5 80W90
Essex CAT TO4 - SAE 30

Transmission

Essex UTTO 10W30
Essex CAT TO4 - SAE 30

LUBRICATION PROTECTION FOR TLB

Engine Crankcase

Essex Engine Oil SAE 15W40 SL/C14
 Essex Engine Oil SAE 20W50
 Essex Engine Oil Syn SAE 10W40 SL/C14
 Essex STOU 20W40

Hydraulic System

Essex CAT TO4 – 10W
 Essex Hydraulic T 68
 Essex STOU 20W40

Coolant System

Essex Antifreeze T 100%
 Essex Antifreeze T 50%



Bearings

Bechem High-Lub LT 2 EP SEB
 Bechem High-Lub LFB 2000

Differentials & Axles

Essex Differential Oil GL5 80W90
 Essex CAT TO4 - SAE 30
 Essex STOU 20W40

Transmission

Essex UTTO 10W30
 Essex CAT TO4 – SAE 30
 Essex STOU 20W40

AUTHORIZED DISTRIBUTOR AND
 INSTALLER
 Recommendation for TLB
 • Centralised Lubrication Systems



LUBRICATION PROTECTION FOR FRONT END LOADER

Hydraulic System

Essex CAT TO4 – 10W
 Essex Hydraulic T68
 Essex STOU 20W40



Engine Crankcase

Essex Engine Oil SAE 15W40 SL/C14
 Essex Engine Oil SAE 20W50
 Essex Engine Oil Syn SAE 10W40 SL/C14
 Essex STOU 20W40

Coolant System

Essex Antifreeze T 100%
 Essex Antifreeze T 50%

Bearings

Bechem High-Lub LT 2 EP SEB
 Bechem High-Lub LFB 2000

Hitch Pins & Bushes

Bechem High-Lub LFB 2000
 Bechem High-Lub FA 50 MO

Differentials & Axles

Essex Differential Oil GL5 80W90
 Essex CAT TO4 - SAE 30

AUTHORIZED DISTRIBUTOR AND
 INSTALLER
 Recommendation for FRONT-END
 LOADERS.
 • Centralised Lubrication Systems



LUBRICATION PROTECTION FOR DUMP TRUCKS

Engine Crankcase

Essex Engine Oil SAE 15W40 SL/C14
 Essex Engine Oil SAE 20W50
 Essex Engine Oil Syn SAE 10W40 SL/C14

Coolant System

Essex Antifreeze T 100%
 Essex Antifreeze T 50%

Hydraulic System

Essex CAT TO4 – 10W
 Essex CAT TO4 – SAE 30
 Essex Hydraulic T68



Bearings, Pins, Bushes & Grease Points

Bechem High-Lub LT 2 EP SEB
 Bechem High-Lub LFB 2000
 Bechem High-Lub FA 50 MO

Differentials & Axles

Essex Differential Oil GL5 EP 80W90
 Essex Differential Oil GL5 EP 85W140
 Essex CAT TO4 – SAE 30 / SAE 50

AUTHORIZED DISTRIBUTOR AND
 INSTALLER
 Recommendation for DUMP TRUCKS
 • Centralised Lubrication Systems



ESSEX products.



SOLOLUBE

Sololube is a reliable, easy-to-operate single point lubricator with an electromechanical drive.

Its precise delivery system makes SOLOLUBE equally suitable for the automatic lubrication of roller and friction bearings, gear racks, open transmission of chains.

Available in different sizes and models.

Choose between 150 and 250 gram cartridges.

Cartridges refillable up to 3 times.

Set timer from 1 – 12 months.

Dispense oils and grease up to NLGI 2

RFID compatible.



No.	Description	No.	Description
1	Battery	5	Thread 1/2"
2	Drive	6	Dispensing setting
3	Pressure plate	7	Piston
4	Cartridge	8	Lubricant



Spring Driven Lubricators

G-LUBE is an electronically controlled single point lubrication system, driven by a chemical reaction.



G-LUBE VIB

G-LUBE VIB is an innovative electromechanical lubricator dispenser that only activates itself if the connected sensor registers vibrations.



EXCITING NEWS:

NEW - Ultrasonic Single Point and Multi-point coming soon!!!

Ask your representative for more information.

GRACO Lubrication Equipment.



The perfect fit for non-stop productivity

PUMPS

Lower Maintenance Cost with Frequent Lubrication

Reduce unplanned downtime and maintenance cost with on-vehicle and heavy equipment automatic oil and grease pumps. Automatic lubrication systems provide consistent lubrication on a more frequent basis than manual techniques.

METERING

Keep Your Equipment Running Smoothly.

Graco valves and injectors are designed for a wide range of configurations, outlets and dispense volumes to lubricate multiple-sized bearings and help minimize equipment downtime.

CONTROLLERS

Take Total Control by Optimizing Lubrication Intervals

Information drives uptime. The Graco GLC Series of controllers capture and deliver more information allowing for faster, smarter decisions. Easy to understand and easy to update, this family of automatic lubrication controllers helps increase productivity. Control your system from the palm of your hand with the GLC X Controller and the Graco Auto Lube app.

HOSE REELS

Rugged hose reels; built to last.

Retractable hose reels keep your manufacturing lines and floors organized, safe, and uncluttered which leads to higher overall productivity.

DOUBLE DIAPHRAGM PUMPS

Husky pneumatic double-diaphragm pumps feature a stall-free, low-pulsation air valve, which provides a smooth and rapid change-over.

DISPENSE METERS

When you buy a Graco product like our dispense guns and meters, you know it has been engineered with high-quality materials, tested and proven to perform right out of the box.

EVERYTHING WORKS TOGETHER: VALVES, INDICATORS, SWITCHES, FILTERS, BRUSHES, HOSE & FITTINGS AND HARDWARE

Ensure your auto lube system meets your specific application requirements with our extensive catalogue of system accessories.



SERVICE AND MAINTENANCE LUBRICATION EQUIPMENT



GRACO Disinfecting, Sanitizing and Spray Equipment.

A BETTER METHOD FOR APPLYING DISINFECTANT

Applying disinfectant using an airless disinfectant sprayer is more efficient and effective than spray-and-wipe methods. Airless sprayers provide effective disinfecting by completely coating surfaces to meet required dwell times. Spray-and-wipe methods are not only inefficient, but also ineffective at providing proper dwell times and complete coverage of disinfectant.

COMPATIBLE WITH DISINFECTANTS

Compatible with a wide variety of Approved alcohol-based and water-based active ingredients for use against SARS-CoV-2, the novel coronavirus that causes COVID-19.

AIRLESS PAINT SPRAYERS

The GX 21 is the fast, portable and affordable solution for small finishing jobs every finishing contractor faces. Graco's proven piston pump and RAC X SwitchTip quickly lay down a smooth finish. The ProXChange Pump provides fast on-the-job pump replacement – no tools required.



Oil Sampling Valves.

The first step in oil analysis

Sample with the equipment running.

Minimize time spent sampling

- Pressurized Sampling Valves
- Non-Pressurized Sampling Valves
- Fluid Management



Oil Sampling.

ESSEX in association with OILWATCH and WEARCHECK

Comprehensive analysis of transformer and lubricating oils. Oil analysis allows you to easily determine condition of your equipment by looking at what's in the oil. We provide comprehensive analysis of transformer and lubricating oils, fuels, coolants, and industrial products.

Ts & Cs apply – please contact us for more detail.





Store & Transfer

Store & Transfer lubricants while keeping them clean and dry before they enter your equipment.

- Colour Coding
- Oil Transfer
- Stackable Storage
- Contamination Control



Seal & Protect

Seal and protect your equipment against the ingress of dirt and water.

- Desiccant breathers
- Non-desiccant breathers
- Rebuildable steel breathers
- Connected breathers



Filter & Purify

Actively filtering lubricants can dramatically improve industrial equipment performance and lubricant life.

- Dedicated filtration
- Portable filtration
- Vacuum dehydration



View & Assess

Early detection of contamination and oil level problems are critical to the uptime of your equipment.

- 3D Bullseye
- Oil Level Indicators
- Sight glass level monitor



Measure & Monitor

Condition monitoring data can be gathered continuously or at certain intervals, providing immediate notice of a significant change from normal conditions.

- Condition monitoring centre
- Contamination sensor
- Oil condition sensor



TRANSFER

Store, filter, and transfer lubricant using best practice solutions that fully protect your lubricant from contamination on the way to the equipment.



STORAGE

Filter new oil upon arrive then store lubricants in a clean and dry environment.



VISUAL OIL ANALYSIS

Early detection of contamination and oil level monitoring.



BREATHERS

Replaces the standard dust cap or OEM breather cap on equipment, offering better filtration to protect against even the smallest particulates.



FILTRATION

Actively filtering lubricants can dramatically improve industrial equipment performance and lubricant life.



CONNECTED MONITORING SOLUTIONS

Integrate sensors into select Des-Case products for real-time monitoring.

Advanced filtration solutions.



OFF-LINE FILTRATION

Designed for industrial hydraulic and lubrication systems. When fitted with water absorbing elements, the reduced water contamination level prolongs the life of the additive package and reduces oxidation of the oil, components and bearing



surfaces.



VACUUM DEHYDRATORS

Dehydrate and clean most types of oils such as lubricating, hydraulic, transformer and switch oils by removing particles, gases, and water.

FILTERS AND ELEMENTS

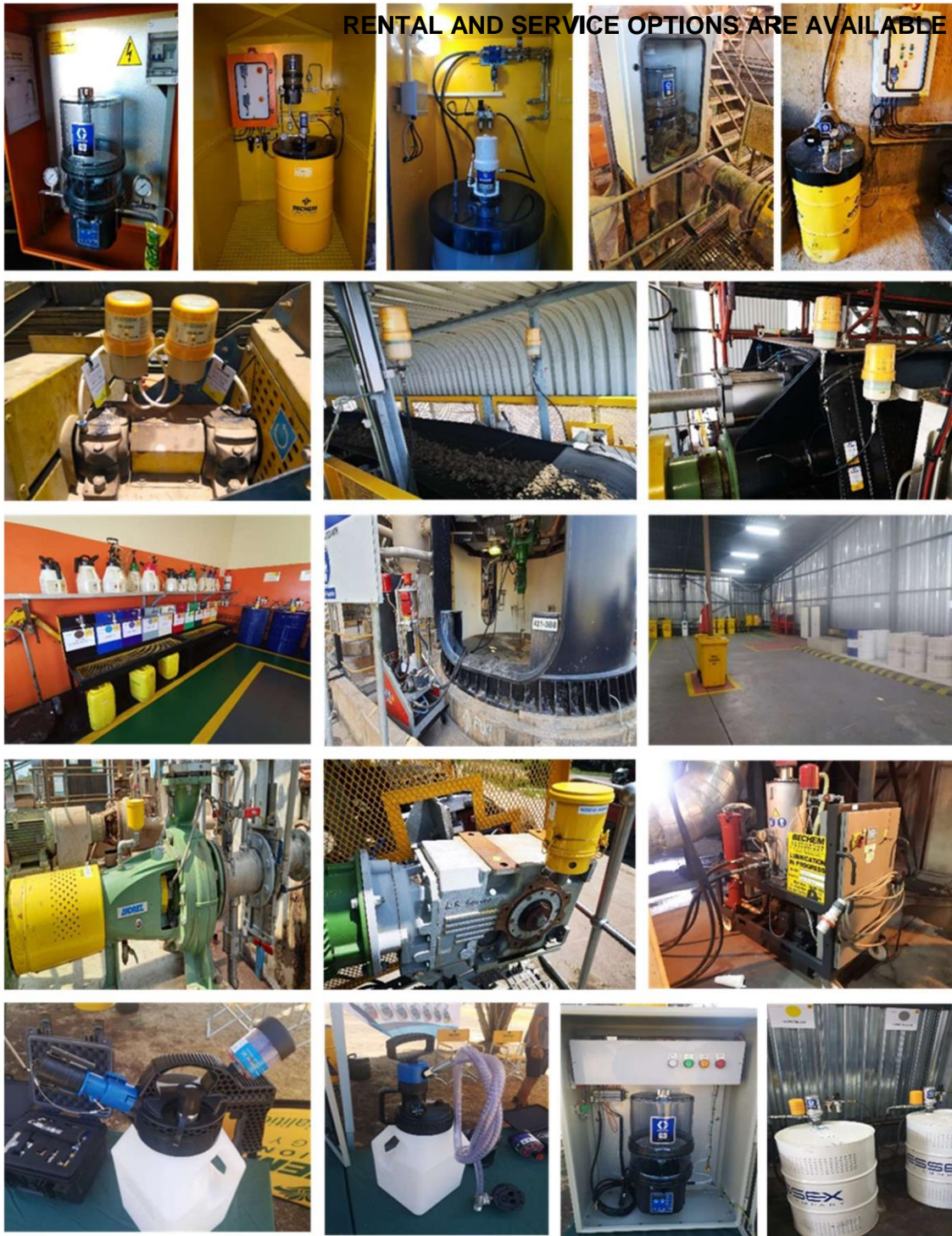
A wide variety of filters and elements to fulfill any requirements.

- Spin-on Filter Elements
- Cartridge Elements
- Depth Cellulose Elements
- Bag Filters

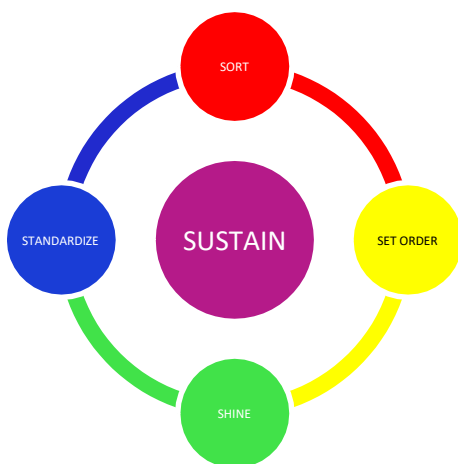
Lubrication products and services.

RENTAL AND SERVICE OPTIONS ARE AVAILABLE

- LUBRICATION SYSTEMS
 - Single Point
 - Dual Line
 - Progressive
 - Open Gear Spray
 - Chains
- SINGLE POINT LUBRICATORS
- SIGHT GLASSES
- DRAIN VALVES
- OIL STORE SETUP
- COLOUR CODING OF OILS AND GREASE
- BELLOW BREATHERS
- DESICCANT BREATHERS
- OIL TRANSFER SYSTEMS
- OIL STORAGE SYSTEMS
- FILTRATION
- FILTRATION RENTALS
- FILTERS
- TOTAL FLUID MANAGEMENT
- MANAGEMENT SOLUTIONS
- SYSTEM INSTALLATIONS



5 S – Principal Recognition Award.



5S Explanation

Sort	Set in Order	Shine	Standardize	Sustain
When in doubt, move it out – Red Tag technique	A place for everything and everything in its place	Clean and inspect or inspect through cleaning	Make up the rules, follow and enforce them	Part of daily work and it becomes a habit



DISTRIBUTORS AND AGENTS NATIONWIDE

ACCREDITATIONS AND COMPLIANCE

B-BBEE LEVEL 2 ACCREDITED

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018

Johan Kriel

E: johan.kriel@drs-cd.com



M: +27 72 178 5406

Whatsapp: +27 72 178 5406

Suite 302, Zambia National Building Society, President Avenue, Ndola, Zambia