

# Innovative lubricants need experienced application engineers

Every lubricant change should be preceded by expert consultation on the application in question. Only then can the best lubricant system be selected. Our Paper Team will be glad to advise on the right lubrication for each application as well as the support services we can offer.



Contact:



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## **Lubricant Solutions for the Paper Industry**

**LUBRICANTS.  
TECHNOLOGY.  
PEOPLE.**



A low-angle, perspective shot of a paper mill. Several large, horizontal metal rollers are visible, with a continuous sheet of light-colored paper being processed between them. The lighting is dramatic, with strong highlights and shadows, emphasizing the industrial nature of the scene.

# LUBRICANT SOLUTIONS FOR THE PAPER INDUSTRY

The unique demands of the paper industry require specialist lubricants and a supplier dedicated to excellence in customer support.

At FUCHS we understand these demands and have a portfolio of products designed to meet the needs of the paper industry - whether it's water resistant products for the forming section, products with good thermal stability for the dryer and press sections, or lubricants able to deal with the dust in the reeler section.

We provide innovative lubricant solutions designed to keep your assets in optimum condition and operating at maximum efficiency. We research, develop and manufacture lubricants that are approved by leading OEMs and available globally via the FUCHS organisation.

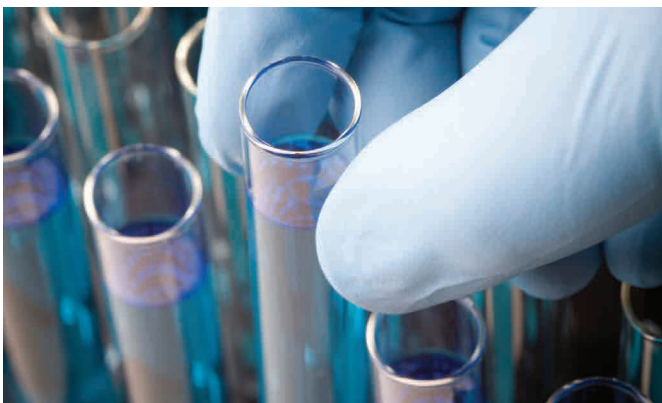




## LUBRICANTS

The paper industry requires the very best in lubricant technology as reliability and efficiency are paramount. Included in our portfolio are specialist lubricants, such as food grade lubricants, fire resistant hydraulic oils, and biodegradable fluids to meet the critical demands and regulations of the paper industry.

Our product portfolio is comprehensive and offers a 'single source' supplier option with the reassurance of quality and technical support from the world's largest independent lubricant manufacturer.



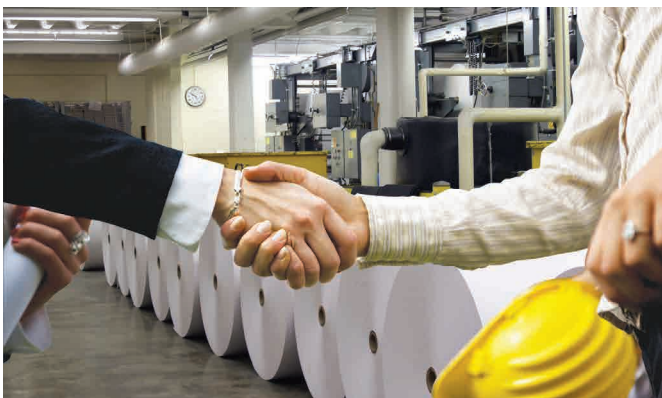
## QUALITY & INNOVATION

All new products are developed with one goal in mind: maximum service life, providing maximum asset protection with practical operational use. Working in conjunction with our Paper Team, our chemists develop new technologies that ensure we are at the forefront of latest trends. All products are test validated in our laboratories before market launch.



## TECHNICAL SERVICE

The lubricant in any machine is an important component in guaranteeing the efficiency of that asset. Through active monitoring and measurement of oil condition, FUCHS can help companies determine the condition of the oil in use, the anticipated life of the fluid, and highlight potential problems and root causes before they occur. This eliminates unforeseen costly breakdowns and problems as well as maximising the operational life of the asset.



## BUSINESS SUPPORT

Our dedicated Paper Team comprises of commercial staff, engineers, chemists and tribologists, providing a total service package. We offer customers an expert consultancy service. For instance, every lubrication schedule and review we complete is unique, dedicated to the exact needs of the operation, and chosen because of its OEM recommendation or its potential to extend service life and operational efficiency.

# PRODUCT EXCELLENCE IN **KEY** APPLICATIONS



## **CALENDER OILS**

Heated steel rollers used in the production of calendered paper can reach temperatures of 250°C and above. Our calender oils offer extreme high-temperature stability, low evaporation loss and a high degree of wear protection.



## **WATER RESISTANT GREASES**

Full range of multipurpose paper machine greases for lubrication in either the wet or dry section. Our grease range includes products with high operating temperatures, excellent wear protection and high mechanical resistance.



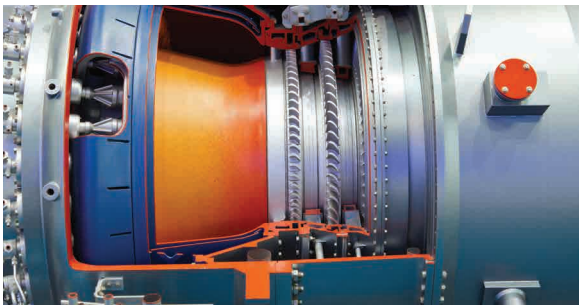
## **LUBRICATING OILS**

Full range of wet and dry section oils, including fully synthetic paper machine oils formulated to meet the critical demands of circulating systems. Our products have shown excellent thermal and oxidative stability, meeting the critical demands of paper making machinery.



## **LOG SAW OILS**

Non-staining release fluids for the cutting blades on paper log-saw cutting machinery. Our specially developed log-saw oils can help reduce power consumption by reducing friction and drag.



## **TURBINE OILS**

The majority of overhead costs in paper mills are due to energy generation in the dryer section. Our RENOLIN ETERNA turbine oils fulfil and exceed the requirements of many OEMs, and have been chosen by many manufacturers as the lubricant of choice for use in gas and steam turbines.



## **GEAR OILS**

Our gear oils have been developed with the world's leading manufacturers. Our heavy duty gear lubricants meet the highest standards and specifications, ensuring optimum performance, even under increased speeds, high temperatures and heavy loads.



# SPECIALIST SOLUTIONS



## ENERGY SAVING LUBRICANTS

All process industries that convert raw materials into useable goods, require a huge amount of energy to power machinery and equipment. The paper manufacturing industry is no exception. Through effective lubricant selection, manufacturers can reduce power consumption and therefore total energy costs.

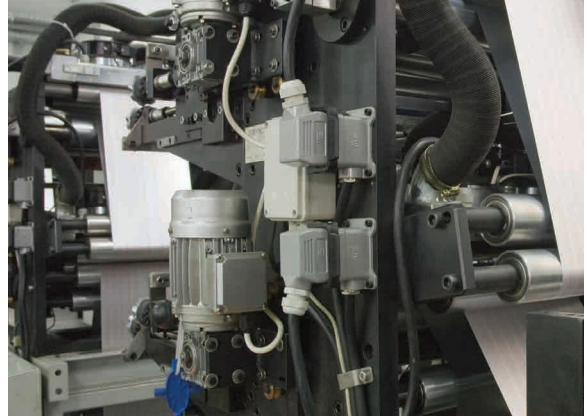
Field trials have shown the FUCHS RENOLIN PG gear oils significantly reduce costs and increase productivity. Our products offer increased lubricity, better protection to gear teeth and energy saving benefits.



## FOOD GRADE LUBRICANTS & TECHNICAL WHITE OILS

The FUCHS CASSIDA range is a comprehensive portfolio of NSF H1 and 3H registered food grade lubricants. For facilities manufacturing products such as tea bags and coffee filters, we provide the perfect lubricant solution.

We also manufacture a range of technical white oils used as release agents for tissue embosser rolls.



## FIRE RESISTANT HYDRAULIC OILS

The demand for fire resistant hydraulic oils within the paper and tissue industry is growing, driven by a desire for greater efficiency, implementation of disaster recovery programs, insurance benefits and customer concerns. FUCHS provides a full range of fire resistant hydraulic oils including HFA, HFB, HFDU and HFC type fluids.

Our PLANTOFLUX range of HFDU type fire resistant hydraulic oils are rapidly biodegradable synthetic fluids. These products have been proven to show excellent tribological properties including extended protection of hydraulic circuit components.



## REVOLUTIONARY PACKAGING

We offer eco-friendly Lube Cube packaging options. The Lube Cube is a viable, easily recyclable cardboard alternative to the plastic or metallic packaging currently employed at many sites. The corrugated cardboard outer box is 100% recyclable providing customers with lower disposal costs and improved carbon footprint.

# IN PARTNERSHIP WITH THE PAPER INDUSTRY

## THE FUCHS GROUP

FUCHS is the world's largest independent manufacturer of lubricants. The Group comprises of 55 operating companies with 34 production plants worldwide.

In addition to products developed for industry in the UK, we have access to over 2,500 industrial FUCHS products from within the Group. Customers have available FUCHS technical experience on a global scale providing access to international fluid technology.

## UK GROUP PROFILE

The headquarters of the UK subsidiary of the FUCHS Group is located in Stoke-on-Trent. Our modern, highly automated production plant ensures we can offer exceptional levels of service and delivery.

FUCHS UK has over 100 years' experience of supplying lubricants within the UK. We have demonstrated excellent performance in all aspects of lubricant supply including lubricant quality, timely supply and health and safety compliance.

We are proud supporters of the Paper Industry Technical Association (PITA).

## RESEARCH & DEVELOPMENT

The FUCHS group has a very strong focus on R&D and Technical support, with more than 400 chemists, engineers and specialists in over 40 laboratories worldwide.

Regular dialogue with OEMs, other industry bodies and component suppliers maintains our technical expertise. Our investment in R&D means that 70% of sales come from products developed within the last five years.

## QUALITY STANDARDS

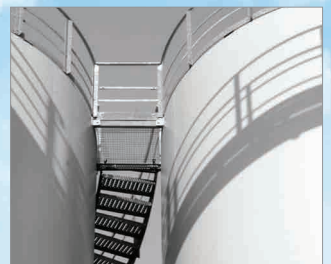
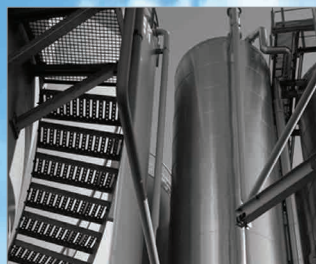
The FUCHS Group has a worldwide reputation for outstanding performance and product quality. Our UK manufacturing site is audited to the highest levels and we have been awarded a wide range of quality standards. We hold the MHRA Medicines Manufacturing Licence and have NAMAS accredited laboratory facilities.



# YOUR **GLOBAL** PARTNER



**GLOBAL**  
MANUFACTURING  
OPERATIONS





# SUPPORTING THE PAPER INDUSTRY



## LUBRICANT **CONDITION MONITORING**

The CENT condition monitoring service is a state of the art production management tool that indicates the condition of the fluid and equipment by measuring wear trends, additive levels and sources of contamination.

Clear and precise feedback is given to the customer in a regular, accurate, detailed report that highlights status indicators in graphical trend format. FUCHS Specialists will recommend sampling points, methods and frequencies.

CENT has a proven track record in improving efficiency and reliability of machinery across many industries – saving our customers money!



## **CHEMICAL PROCESS** MANAGEMENT (CPM)

We provide expert support in the areas of fluid supply, distribution, monitoring, maintenance, assessment and disposal, allowing the customer to concentrate on what they know best. Full technical support is provided by a dedicated team of production fluid specialists and extensive laboratory facilities, incorporated into regular site visits to ensure maximum efficiencies.

Our commitment to achieving agreed performance targets that are quantifiable and sustainable, through lowering the direct and indirect costs associated with fluid usage, can only be demonstrated through proven experience and the positive vision that FUCHS brings to all of its CPM customers.

Our CPM program is successfully operating in paper mills across the UK.



## **FLUIDS** LIVE

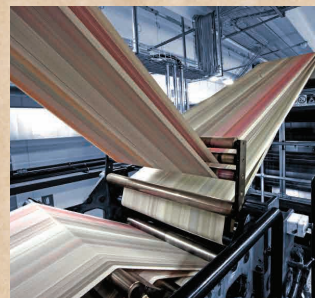
This secure internet based tool provides live (within 2 hours) and accurate management reporting data on fluid usage, cost and condition by machine, cell, building and location.

This data allows maintenance and production professionals immediate access to vital information for preparing schedules and programmes of work. Developed by an in-house team, Fluids Live offers the customers the opportunity of bespoke reports. FUCHS welcomes the opportunity to discuss your plans and to create your own unique solution.

## PRODUCT **COMPATIBILITY**

Our products have been formulated to meet and exceed the needs of the paper and pulp industry, providing maximum productivity and proven reliability. We understand the importance of keeping your machinery running at optimum efficiency with minimal downtime.

We conduct full product compatibility testing to provide you with peace of mind and reassurance in changing to FUCHS technology.



## **ENVIRONMENT** AND RENEWABLES

We are proud to have been awarded ISO 14001 environmental standard where a key part of the criteria is to ensure we choose the best materials to use in our formulations to minimise the impact on the environment and people whilst providing the highest performance.

FUCHS is at the leading edge of lubricant design to provide products based on renewable resources. Since the 1970s we have been pioneering research in developing lubricants from sustainable and renewable resources with the aim of limiting environmental impact. Our technically advanced PLANTO oils are high performance lubricants based on renewable raw materials, such as rapeseed and sunflowers, combined with downstream esters and specially selected additives.



## ACCOUNT **SUPPORT**

Our Paper customers enjoy our excellent customer relations programme. Dedicated customer service clerks, technical enquiry help desk, and a 24 hour emergency contact are just some of the additional support services FUCHS provides.

In addition, FUCHS offers technical support to all customers, including customer training in product storage, handling and distribution, training in collection and analysis of lubricant samples and also a "principles of lubrication" education programme to help develop the knowledge of customer staff.



## **EXPERIENCE** YOU CAN **TRUST**

Lubricant suppliers are common, but few have the expertise, service support and paper industry experience of FUCHS. In choosing a partner you need to be sure that they understand your processes and goals, and have the technology, intelligence and support services to deliver. FUCHS is that partner.

We have many years' experience in supporting the paper industry and testimonials from leading companies to support our claims.





## Paper Industry Technical Association

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## PITA MEMBER

FUCHS Lubricants (UK) Plc are proud supporters of The Paper Industry Technical Association

*a full line supplier of  
lubricants providing  
expertise, service  
support and experience  
for the Paper  
Industry...*



**LUBRICANTS.  
TECHNOLOGY.  
PEOPLE.**



