

## Discover the World of Strub Lube.

Our traditional family-owned company Strub + Co. AG in the heart of Switzerland is an independent lubricant and technical cleaner manufacturer. 150 motivated employees are working for you worldwide. A subsidiary in South Africa, as well as representation and offices in other countries guarantee a close presence to solve our clients' challenges.

Since 1921, the name Strub represents quality and innovation in all areas of tribology. The basis for our success is the principle to make use of the 90 years of tradition and experience. We aim to achieve high performance, reliability and environmental-friendly solutions for our clients worldwide.



**Analytics:** In order to be able to guarantee optimum performance and functionality of our high-tech products, we offer our analytical service. Only the highest quality or most environment-friendly raw materials are used in our developments.



**Service:** Our chemists and application engineers are available to provide support and assistance at any time. We are your close system supplier in the lubrication industry. We offer a comprehensive customer support before and after the sale. We accompany you within the whole customer life cycle.



**Tailor-Made Products:** Should you be unable to find the optimum product for your application in our list of over 1,600 lubricant specialties, we are able to formulate an innovative solution and tailored product for you.

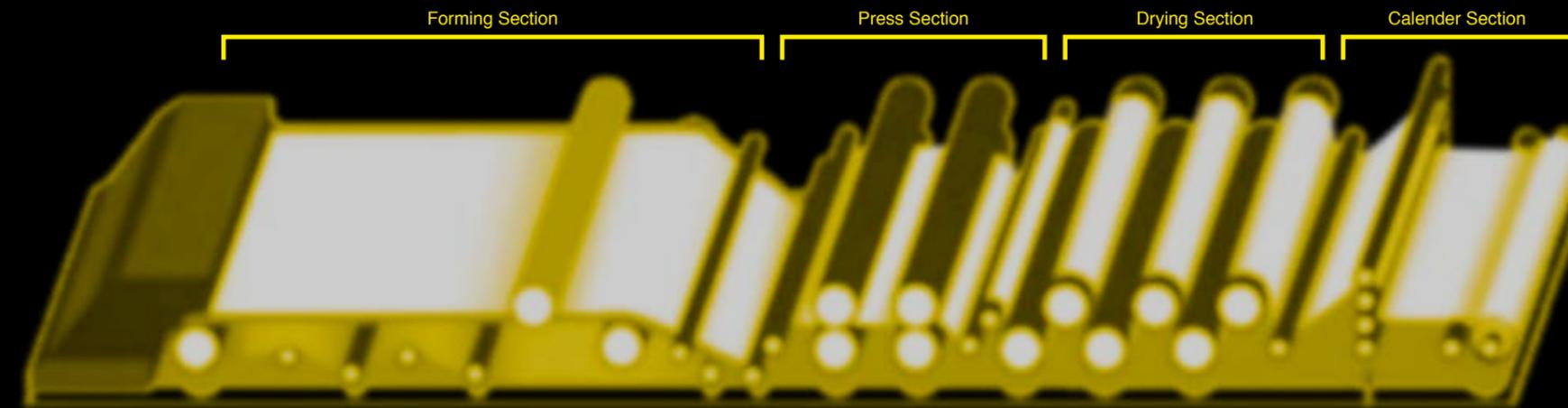


# PAPER MILL LUBRICANTS

High-quality products for the paper mill industry

# PERFORMANCE & RELIABILITY

Paper mills are exposed to extreme conditions of water, heat and dust. For that STRUB products provide high-performance lubrication and greases to protect and increase the productivity of each machine.



## Forming section

or commonly called the wet end. It is important that the lubrication is formulated with excellent rust protection and water separation properties.

## Press section

where the wet fiber web passes between large rolls loaded under high pressure to squeeze out as much water as possible. In this section, it is essential to use lubrication which has excellent heat dispersion properties.

## Drying section

built in a serpentine manner with a series of steam-heated drying cylinders. The lubrication used in this section needs a good thermo stability as well as ageing stability.

## Calender section

where heavy steel rolls smooth the dried paper. Grease is often used, but circulating oil has become more common.

## Paper Machine Gear Oils

<b>STRUB Vulcogear EP</b> ISO 68, 100, 150, 220, 320, 460, 680	A high-quality oil for the lubrication of gearboxes. Highest load carrying capacity and excellent protection against wear, with a very good corrosion and rust protection, good wetting capabilities, quick water and air release properties. It is compatible with all types of gaskets and seals and has good thermo stability as well as ageing stability.
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DIN 51517 part 3, CLP, ISO 12925-1, CKC-CKD, AGMA 9005-E02, 9005-D94

<b>STRUB Vulcogear O.A.P.</b> ISO 150, 220, 320, 460	A high-performance version of STRUB Vulcogear on a synthetic basis for the lubrication of worm, straight, angled gears, etc., which are working under heavy loads and high temperatures. It is mostly used in heavy industry where conventional oils break down due to the high temperature.
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DIN 51517 part 3, CLP, ISO 12925-1, CKD-CKD, AGMA 9005-E0, 9005-D94

<b>STRUB Vulcogear EP</b> ISO 1000	Based on STRUB Vulcogear EP, but with a very high viscosity for the calender section of the paper machine.
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ISO 12925-1, CKC-CKD, AGMA 9005-E02, 9005-D94

## Paper Machine Hydraulic Oils

<b>STRUB Vulcolube HLP</b> ISO 10, 15, 22, 32, 46, 68, 100, 150	A high-quality and multipurpose hydraulic oil especially suitable for the paper machine industry. The additive combination prevent rust and corrosion, for a better oxidation stability, for a lowering of wear and to improve the load carrying capabilities and the service life.
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ISO 11158, DIN 51524 part 2, HLP, HM, Denison HF-0, HF-2

<b>STRUB Vulcolube HLP ZF</b> ISO 32, 46, 68, 100, 150	A zinc-free hydraulic oil which is suitable for use in all hydraulic systems where high demands on the filtering are placed.
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ISO 11158, DIN 51524 part 2, HLP, HM, A /8.3/90 > 12

## Paper Machine Circulating Oils

<b>STRUB Vulcocircle PM</b> ISO 150, 220	A high-performance circulating oil for the lubrication of all kind of paper machines on the wet and dry end. This oil increases the efficiency of the lubrication and lifetime of the oil and bearings.
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Meets the requirements of SKF, FAG, Metso, Voith

<b>STRUB Vulcocircle PMS</b> ISO 150, 220	A synthetic version of the STRUB Vulcocircle PM for extreme performance applications.
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Meets the requirements of SKF, FAG, Metso, Voith

<b>STRUB Vulcocircle PMA</b> ISO 150, 220	Special version of STRUB Vulcocircle PM without ash for applications requiring these characteristics.
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Meets the requirements of SKF, FAG, Metso, Voith

## Paper Machine Grease

<b>STRUB Multi Duty Grease EP 2</b> NLGI 2	A premium-quality grease without melting point, for heavily loaded plain and roller bearings as well as high temperature conditions. Suitable over wide temperature range from -24 °C to +200 °C with peak temperatures up to 250 °C. It contains various high-quality additives with very good high-pressure properties, excellent adhesive, water and anticorrosive properties, good water resistance, shear stability and broad chemical resistance.
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STRUB Swiss Tribology has an extensive range of greases and pastes for various applications. For more information please contact your STRUB product manager.

STRUB Swiss Tribology produces over 1,600 different products of lubrication, cleaners and greases. For more information please contact your STRUB product manager.