



WOERNER
Lubrication Experts since 1922

PAPER MACHINES

Oil circulation units & grease lubrication units



CENTRAL LUBRICATION SYSTEMS FOR PAPER MACHINES

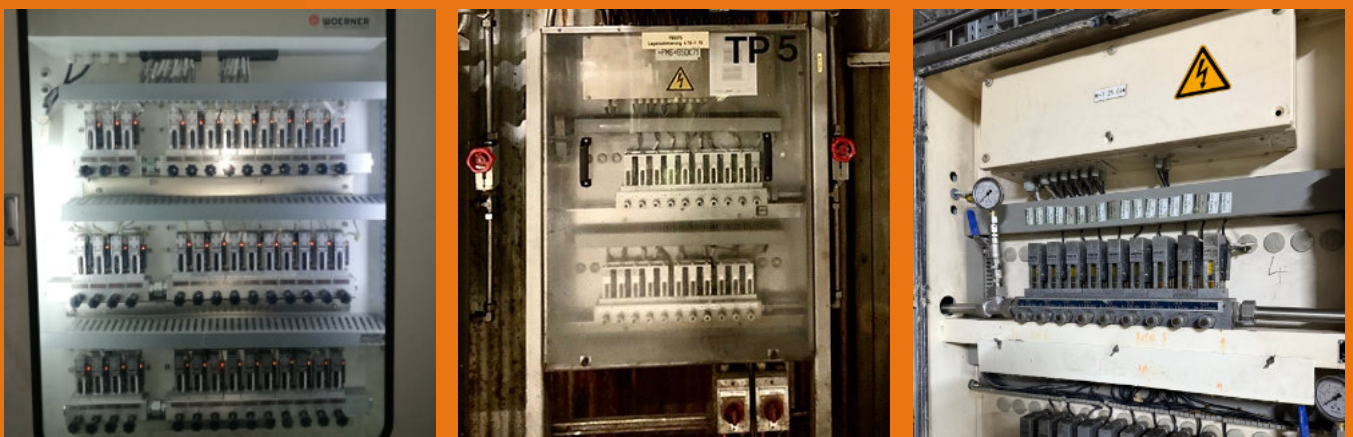
Modern high-performance paper machines demand lubrication solutions that ensure reliability and absolute efficiency. With over 100 years of expertise, WOERNER is your trusted partner for advanced centralized lubrication—delivering durable oil-circulation systems, precise oil-distribution solutions, and comprehensive gearbox lubrication for the dry, wet, and press sections. Also grease and spray lubrication for various applications are in our portfolio.



OIL DISTRIBUTION AND FLOW MEASURING

SYSTEM KUI (FLOAT-TYPE VOLUME FLOW DEVICE)

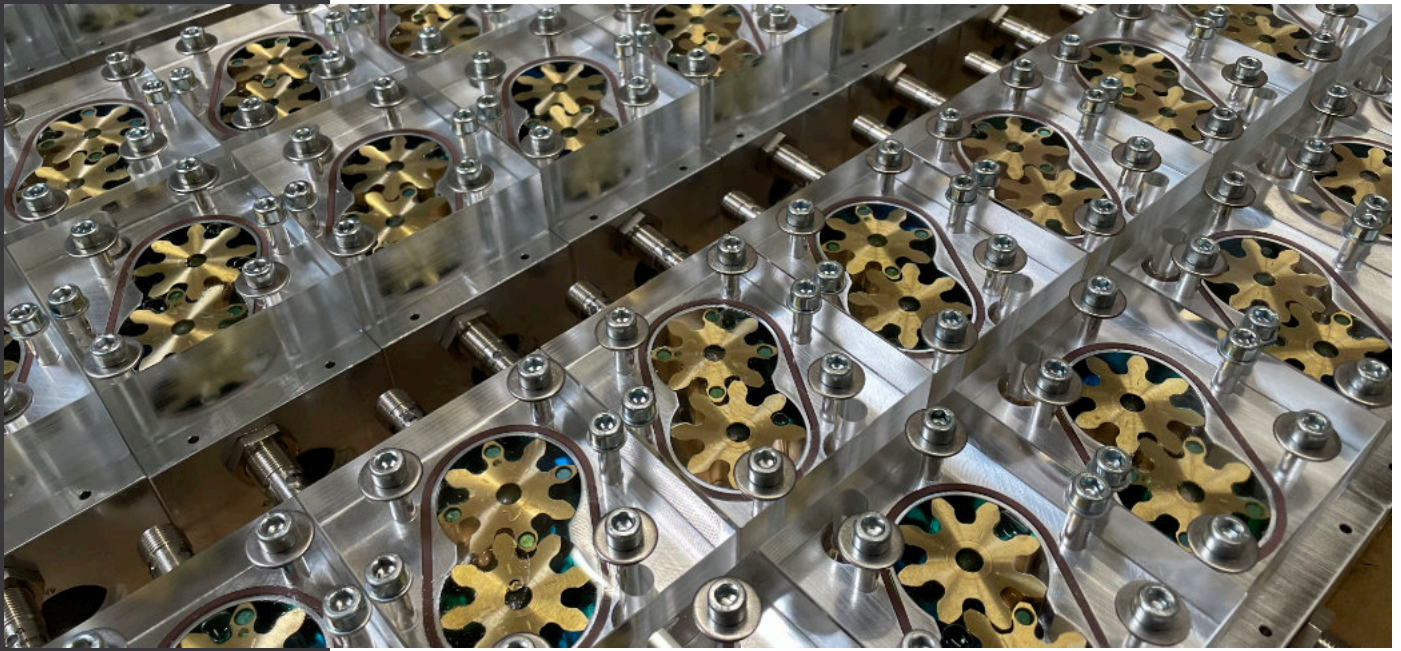
Our flow measurement and display units ensure maximum machine uptime while minimizing downtime. They monitor volumes from as low as 0.1 l/min up to 50 l/min per lubrication point, with multiple installation configurations and monitoring outputs to suit your needs.



KUI cabinets in various options

Advantages of the KUI systems:

- Low operating pressure due to minimal back pressure
- Short response time when adjusting these units
- Volume flow can be read directly at the units
- Electrical monitoring of flow rate per outlet switch + continuous signal available
- Viscosity dependent orifices restrict oil flow at start up, thus preventing overflow of bearings



SYSTEM KUZ (GEAR-WHEEL MEASURING INSTRUMENT)

This system is engineered for precise and continuous measurement of oil flow. With measuring ranges of up to 7 l/min (KUZ-D) and 50 l/min (KUZ-M), these units are suitable for a wide variety of applications.

KUZ systems are insensitive to different oil viscosities, allowing the reliable use with different temperatures various lubricants. Volume flow can be conveniently monitored and individually alarmed from the central control room.



KUZ gear type volume flow meters in various sizes - for up to 44 lubrications points per oil distribution box.

Advantages of the KUZ systems:

- Exact volume measuring over a wide range of applications
- Several switching points can be monitored at the same time
- Upper and lower flow limit indication by LEDs
- Target values and actual flow values, in litres/min, are displayed digitally at the units.
- Insensitive to different viscosities



SYSTEM TECHNOLOGY

From a global perspective, distance is no obstacle for us. WOERNER lubrication systems are in operation across all sections of paper machines on nearly every continent.

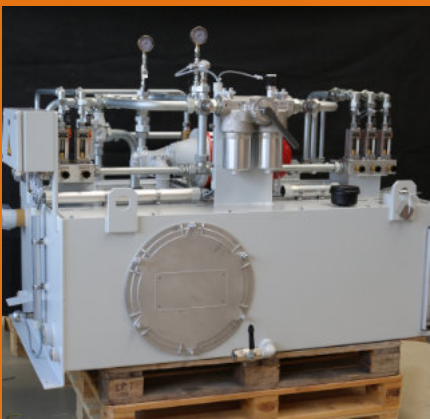
These sections are

- Wet sections
- Gears
- Refiners
- Dry sections
- Calendars
- Intermediate pump stations



With WOERNER, you place the complete engineering of your lubrication systems in the hands of a highly experienced team. We design pump stations with capacities of up to 30,000 litres, tailored precisely to your individual specifications.

Units compliant with the German Water Resources Act (WHG), featuring defined oil flow guidance for stabilization and degassing. Thanks to our extensive global partner network, you can rely on fast, competent, and local support – no matter where your job site is located.



VARIABLE VOLUMETRIC LUBRICATION SYSTEM

OPTIMIZE YOUR SYSTEM WITH VARIABLE VOLUME FLOW CONTROL

Our variable flow rate control is perfect for new systems and can also be easily retrofitted into existing installations. Benefit from the latest technology – whether it's a new build or a retrofit.

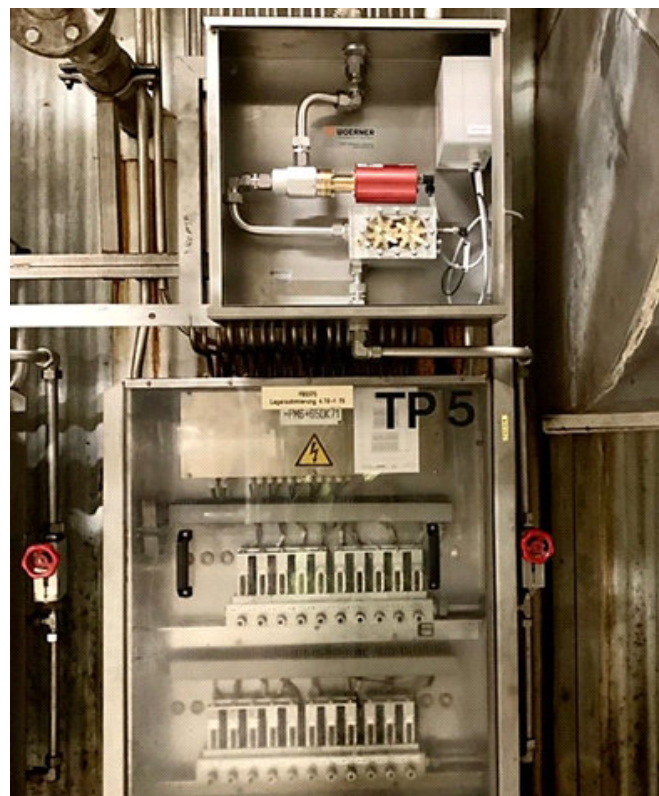
Advantages:

- Electrical control and setting of all lubrication points possible
- Compact design in a stainless steel cabinet
- With ball valves and strainer



- Volume flow at each lubrication point can be tailored to machine speed and real-time oil temperature and viscosity.
- Control each machine section or dryer group individually – no need to walk to the cabinet or make manual adjustments.
- Eco- and resource-efficient through substantial reductions in oil demand and minimized leaks or drips onto the paper / product.

RETROFIT SOLUTION FOR A 1996 MACHINE



MONITORING

Precise monitoring is essential for maximizing machine availability and ensuring operational safety. That's why we have our own in-house electrical engineers who tailor the control system to your machine and its specific requirements.

FLOW MONITORING MADE SIMPLE

- Monitor up to 32 KUI/KUZ units with one control unit
- Real-time display of flow in litres/min & deviations in %
- Programmable targets, limits, and warnings
- Multi-language setup (German/English) & custom labeling
- Status shown on ABC Unit and KUZ LEDs
- CAN BUS ready for seamless integration
- Easy to find alarm valves and simple problem identification



CENTRAL GREASE LUBRICATION SYSTEMS

Grease lubrication in paper machines poses unique challenges: hot and humid environments, combined with the need for effective bearing sealing, demand reliable and efficient solutions to ensure maximum machine uptime. Centralized grease lubrication systems provide reliable and efficient lubrication for bearings in both the wet and dry sections of paper machines.

RELIABLE SYSTEMS

- Progressive systems solutions
- Dual-line systems solutions
- Piston pump with reservoir
- Efficient pumping directly from barrel possible



GMF Piston pump



GMZ-E02 Drum pump



VPB-B Progressive distributor
in block design



VPB-VN / VPB-VS Progressive
distributor in block design



WOERNER

Lubrication Experts since 1922

Together, we develop the right solution for your requirements –
innovative, efficient, and sustainable.

- Call us: **+49 9342 803-0**
- Visit us online: **www.woerner.de**
- Or write to us directly: **info@woerner.de**

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