



Precision lubrication system for **stamping, pressing and punching processes** which reduces the oil consumption with more than 40% and saves water and liquids in the subsequent cleaning process of machined parts.



KSN and Grundfos have jointly developed a new precision lubrication and control system for safe, varied, and precise dosing of chlorine-free oils in the metal industry.

The KSN precision lubrication and control system is built on a rack, modular and available as a Light version for 1-4 pumps/lubrication points and a Plus version up to 12 pumps/lubrication points.

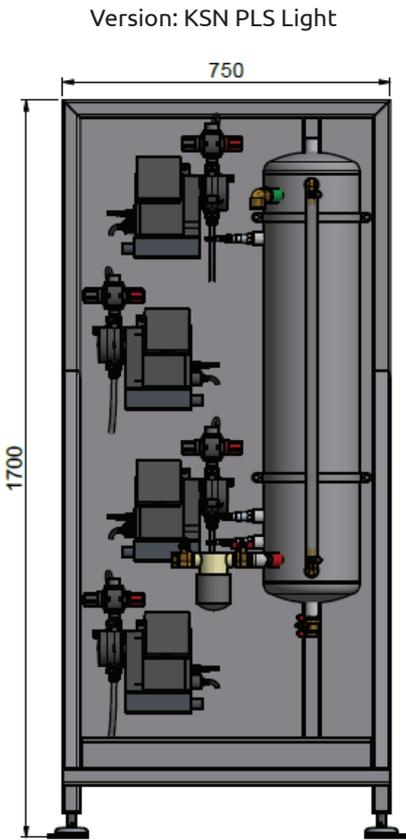
The KSN precision lubrication system is integrable in existing processes and extremely user friendly.

- Oil consumption and pressure monitoring.
- Precise dosing simultaneously at multiple places with different viscosities.
- Use of multiple and different types of oil simultaneously in both process and tools.
- Applicable in processes where fluids are to be dosed.
- Multiple programs depending on the process.
- Reduction of water and liquids in the subsequent cleaning process.
- Service life of tools will be significantly increased.
- Reuse of excess oil.
- Modular system on wheels easily integrable in existing process systems.
- Short ROI.
- Support UN global goals 6 (clean water and sanitation) and 13 (climate action).



KSN PRECISION LUBRICATION SYSTEM SPECIFICATION

Technical data		
Model	KSN PLS Light Up to 4 pumps	KSN PLS Plus Up to 12 pumps
Length	750 mm	1300 mm
Width	380 mm	700 mm
Height	1700 mm	2300 mm
Pump pressure on each lubrication point	16 Bar	16 Bar
Pump flow on each lubrication point	0,01 to 7,5 L/H	0,01 to 7,5 L/H
Oil filter	1	3
Different oils applicable	1	2
Extra pumps for multiple lubrication points	Option	Option
Electrical Siemens PLC control with operator panel	Option	✓
Ethernet module for Grundfos DDA pump to monitor oil consumption and pressure	Option	✓
Aluminum box with heating element for oil	Option	✓
Air system with spray nozzle for atomized oil mist	Option	✓
Extra air vent and spray nozzle	Option	✓
AVC suction unit for removal of oil mist	Option	✓



KSN has delivered Danish quality solutions for more than 30 years

- KSN is an international and successful company.
- KSN is a supplier of high-quality standard and customized washing systems, test rigs solutions and special machines with automation.
- Together with our clients, we create complete solutions.



Improved working environment



Increased production capacity



Designed for easy servicing