

Press Release

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Compact powerhouses: KLEMM presents innovations at bauma 2025

- **KR 806-4GM** with on-board rod handling, power-sharing system: up to 25% less fuel consumption, radio remote control
- **KR 806-4E** (electrohydraulic): increased engine performance, larger battery capacity, up to three times less energy consumption compared to diesel model
- **KR 805-3GW** and **KR 717-3GW** for geothermal energy: for drilling depths of more than 300 m / 400 m, innovative clamping and breaking device
- **KD 4724 hydraulic hammer**: powerful hammer with 47 kNm torque and adaptable impact energy

Munich, Germany – Extremely compact drilling rigs with variable kinematics, high-performance anchor drilling rigs in various performance classes, and energy-efficient geothermal drilling rig with high drilling performance – KLEMM Bohrtechnik GmbH presented all this and more at bauma 2025 in Munich. Two new developments attracted a great deal of interest from trade fair visitors: the KR 717-3GW geothermal drilling rig and the KR 806-4E with electrohydraulic drive.

KR 806-4GM: 25% less fuel consumption thanks to power-sharing system

The KR 806-4GM is a high-performance drilling rig for overburden drilling which includes an on-board magazine for double-head drilling. Based on the KR 806-3GS, the modified machine kinematics enable the use of a heavy mast with a double rod magazine. With a total machine weight of approx. 21.9 t (without payload), the MAG 6.1 magazine can carry a maximum load of 1100 kg. The hydraulic system includes two load-sensing main pumps, each with 240 l/min and a pressure level of up to 350 bar. Thanks to the patented power-sharing system, the power output automatically adjusts to the drilling situation, resulting in fuel savings of up to 25%. A touchscreen is available to adjust machine parameters. The standard radio remote control allows safe operation of the drilling rig whilst having an optimal view of the work area.

KR 806-4E: High power with low energy consumption

This drilling rig is a further development of KLEMM's field-proven electro-hydraulic drilling rig – the KR 806-3E. It has more engine power (180 kW), greater battery capacity (160 kWh) and a simplified electrical system. The rig has the same lifting capacity as its diesel-hydraulic KR 806-4GM counterpart, which means that a MAG 6.1 magazine can be easily attached. The KR 806-4E is quiet, environmentally friendly and is just as powerful as conventional diesel-powered machines. Initial construction site testing has shown that it requires almost three times less energy than the diesel-powered model.

KR 805-3GW and KR 717-3GW: The next generation of geothermal drilling rigs

The KR 805-3GW is used for geothermal loop drilling for near surface geothermal energy extraction. It can drill to depths of well over 300 m using the double-head drilling method. A loading crane, a rod manipulator and a hydraulic salvage and pulling device are integrated onto the drilling rig. With the Energy-Efficient Power Package (EEP) and the patented Power-Sharing system, the rig automatically ensures optimal energy efficiency. With an engine output of 250 kW, this newly developed geothermal drilling rig is designed for drilling depths of over 400 m. The new drill mast provides a tractive force of 220 kN and facilitates rod lengths of up to 6 m. The functionality of the rig is extended through a newly developed 3-fold clamping and breaking device (10") with sliding and recovery function (400 mm stroke, 176 kN tensile force). It also has a new, patented, lateral sliding double head drilling system with newly designed KH 47 and KH 17 rotary heads. The drilling rig can be equipped with a mud pump which can be lowered hydraulically and there is an optional winch which has a 300 m cable capacity.

KD 4724: Powerful hydraulic hammer

With a maximum torque of 47 kNm and a piston weight of 24 kg, the newly developed KD 4724 is the most powerful KLEMM hydraulic drifter to date. By changing the stroke of the piston and the pressure in the percussion unit, the impact energy of the hydraulic drifter can be adjusted to suit the job in hand.

Images of the exhibits (© BAUER Group) can be found in our picture gallery at <https://bauer.canto.de/v/bauma/>

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About Bauer

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