



## NEW COMPACT CLASS DRILLING RIG - KLEMM KR 800-3G



“When we developed our latest drill rig, we had in mind the needs of our customers for a universal machine which is as compact and as powerful as possible,” informed Mr. Roy Rathner, Managing Director at KLEMM.

The company is currently presenting the KR 800-3G, the latest drill rig in the KLEMM compact class product range. With an operating weight of 10 tons and an on-board diesel engine, the KR 800-3G is the lightest and smallest model in the KLEMM 800 series.

Based on a pendulum chassis, the KR 800-3G impresses with its compact dimensions, a highly powerful powertrain and extremely flexible kinematics. With a total width of only 1.80 m, an adjustable mast for different stroke lengths, and the option of mounting various rotary heads or hydraulic drifters - for both single and double-head drilling - the KR 800-3G meets the wide range of the requirements of drilling in confined spaces. The drill rig can be used for installing micropiles, anchors and soil nails, and for the purpose of underpinning and other types of injection drilling.

The heart of the newly developed kinematics is a so called “Rollover,” which is a rotation gear with endless rotation. This rotation gear works as a link between the main boom and the mast carrier including the mast. The Rollover enables anchor drill positions at angles of between 0 and 90° in directions both transverse to the direction of travel, and in the direction of travel. When drilling purely vertically, drilling points up to approx. 400 mm away from the outer edge of the tracks can be reached. This keeps to a minimum the maneuvers required for the rig to reach the next drilling point - which is an important advantage for drilling efficiency, especially when drilling micropiles.

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**DYNAMIC  
POWER.**

**KR 800-3G**

**NEW** Universal Drilling Rig

Engine: CAT C 3.6 IOPU

Engine power: 100 kW

Tier 4f / Stage V

Energy Efficiency Package (EEP)

Weight: 9,5 t

**POWER OF KLEMM**

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# UNSTOPPABLE!

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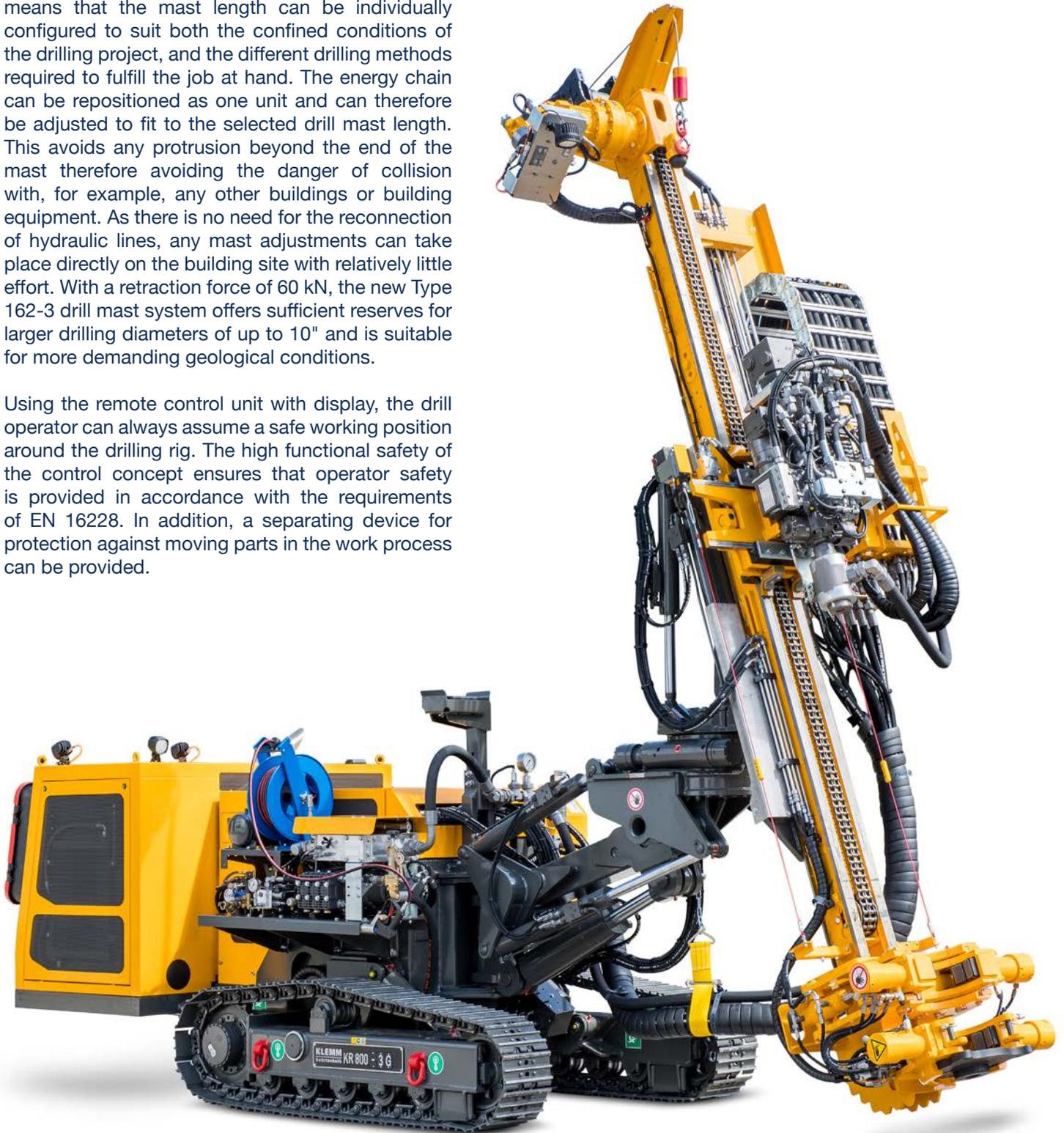
KLEMM drilling equipment stands for the latest, most sophisticated drilling technologies made in Germany. Because every detail is thought through and designed in a particularly robust way our systems stand for a unique, unstoppable DYNAMIC POWER! Benefit from excellent reliability and performance with the lowest total cost of ownership (TCO). We'll tell you how we can make you unstoppable – give us a call: **+49 2761 705-0**

[www.KLEMM-BOHRTECHNIK.de](http://www.KLEMM-BOHRTECHNIK.de)

**KLEMM**  
Bohrtechnik

A further significant advantage is the new mast concept, which is made up of a base element and an extension. Attached to the mast is a modular, easy to adjust clamping and breaking unit which enables the mast to be set up in six different overall lengths between 3,350 mm and 5,000 mm. This means that the mast length can be individually configured to suit both the confined conditions of the drilling project, and the different drilling methods required to fulfill the job at hand. The energy chain can be repositioned as one unit and can therefore be adjusted to fit to the selected drill mast length. This avoids any protrusion beyond the end of the mast therefore avoiding the danger of collision with, for example, any other buildings or building equipment. As there is no need for the reconnection of hydraulic lines, any mast adjustments can take place directly on the building site with relatively little effort. With a retraction force of 60 kN, the new Type 162-3 drill mast system offers sufficient reserves for larger drilling diameters of up to 10" and is suitable for more demanding geological conditions.

Using the remote control unit with display, the drill operator can always assume a safe working position around the drilling rig. The high functional safety of the control concept ensures that operator safety is provided in accordance with the requirements of EN 16228. In addition, a separating device for protection against moving parts in the work process can be provided.



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The 100 kW diesel engine complies with EU V and Tier 4f emissions standards. A version with EU IIIA emissions standard (90 kW power class) is also available.

The hydraulic system offers up to five pumps, two of which are load-sensing, making it optimal for the efficient operation of several main consumers at different pressure levels. CAN-bus driven control blocks with high precision control and reproducibility ensure extremely accurate and precise handling of the drill rig.

Smart features such as PowerSharing, which is developed and patented by KLEMM, and the Energy Efficiency Package (EEP), an integrated standard feature on KLEMM drill rigs, support the user in achieving an environmentally friendly and cost-efficient construction site. Examples of this can be seen in the significant reduction in fuel consumption, pollutants, and noise emissions.

Following its first international trade show appearance at Geofluid in Italy, the first KR 800-3Gs are already proving their worth on construction sites in Switzerland and overseas.

## About KLEMM Bohrtechnik GmbH

KLEMM Bohrtechnik is a world-leading specialist for the development of exceptionally high-quality and powerful drilling rigs with weights of up to 32 tons. KLEMM'S specialty is to use world-leading technologies to create an unstoppable dynamic power.

As a market pioneer, KLEMM has had a decisive influence on the development of anchor drilling technology over the last five decades. This has led to a technological advantage which benefits customers worldwide. KLEMM offers individual solutions over a broad range of products and services, including drilling rigs, hydraulic hammers, rotary drives and drilling equipment. This enables KLEMM customers to perform their specific drilling tasks in the most time effective, efficient, reliable, and safest manner possible. ▲



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