



Universal and anchor drilling rig

Drilling rig KR 805-3G

The powerful universal and anchor drilling rig for overburden drilling with heavy hydraulic drifter.

For heavy overburden drilling

Problem-free transport

The drilling rig is powered by a diesel engine with 160 kW which complies with the current emission regulations (EU Stage V / EPA Tier 4 final). With a machine width of 2.3 m and a weight of approx. 15 t, problem-free container or truck transport is possible.

Optimised kinematics

The machine has an optimised kinematic drill mast connection with a large range of slewing and setting options.

Flexibly adjustable hydraulic control

Using load-sensing technology, patented Power Sharing and the EEP-Package (EEP=Energy-Efficient Power), the machine adapts well to a wide range of consumer configurations whilst also saving resources, such as hydraulic drifter, rotary head, double head drilling unit. Additional components such as a crane, magazine, winch or flushing pumps can also be installed.

Proven modular concept

For the KR 805-3G, you can choose from drill masts with drive or cylinder feed systems and the option to adapt for lattice mast extensions. Drill rods magazines can be used with the drilling rig.

Functional safety

The functional safety of the machine controls complies with Performance Level C (ISO 13849), making its design extremely resistant to faults and fail-safe. The ROM and SPM modes are available in the machine in accordance with EN 16228. The drilling rig is prepared for the installation of an interlocked guard. Radio remote control for all functions is also available for the machine.

Advantages



Universality

The concept of the drilling rig is designed for a variety of applications. A wide range of options are available.



Modularity

A variety of matching kits suited to the respective application is available.



Rod loader solutions

Mechanised rod handling with rack magazine MAG 2.1 or gripper loader MAG 1.2



Telematics

The optional KLEMM DataLink AIR module for the transfer of machine, process and service data into the cloud.



Can be adjusted to the task at hand

- ✓ 500 mm wide grouser plates (machine width 2500 mm)
- ✓ High-pressure grouting equipment with KH 14SK and 6 m + 4 m + 3 m Lattice mast extension (only possible on drill mast 305)
- ✓ Rod magazine MAG 2.1 for rotary percussion and overburden drilling with hydraulic drifter KD 2524 on carriages (payload = 600 kg)
- ✓ Rod handling system
- ✓ Flushing pump
- ✓ Cathead with lifting winch, 10 kN pulling force
- ✓ Biodegradable hydraulic oil and bypass flow filtration
- ✓ Lubricator 8 l / 20 bar / 1/2"
- ✓ Winch with 295 m cable for wire-line core drilling

Details and options

EEP functionality

The drilling rig is equipped with the entire range of functions of the EEP: Such as automatic engine speed adjustment and Power Sharing (patented)



KLEMM benefits



Training

Clear training sessions for your team. Custom-made training sessions at the KLEMM factory or in-house for your team.



On-site service

Maintenance and servicing, expert inspections and repairs by experienced staff on site.



Spare parts

Speedy processing, even in emergencies outside of normal working hours, readily available storage technology.



Complete solution

Drilling equipment and individual solutions perfectly suited to the drilling task and drilling rig, all from

Technical data

Engine				➤
Engine type	Volvo Penta TAD 582VE	Volvo Penta TAD 572VE		
Certified according to	EU Stage V, EPA Tier 4f	EU Stage IV, EPA Tier 4f		
Rated power output	160 kW	160 kW		
DEF tank capacity	45 l	45 l		
Fuel tank capacity	400 l	400 l		
Noise and vibration				➤
Sound power level LWAd	109 dB(A)			
Full body vibration A(8)eff	< 0.5 m/s2			
Hand-arm vibration A(8)eff	< 2.5 m/s2			
Hydraulic system				➤
1st circuit	190 l/min (load-sensing)			
2nd circuit	190 l/min (load-sensing)			
3rd circuit	30 l/min			
4th circuit	20 l/min			
5th circuit (optional)	40 l/min			
Operating pressure max.	350 bar			
Hydraulic oil tank capacity	550 l			
Drilling rig				➤
Chassis type	Oscillating crawler tracks			
Crawler components	B1			

Tractive force max.	148 kN
Crawler speed	2.0 km/h
Chain width	400 mm (3-rib)
Oscillating range	+13 / -13 deg
Ground pressure*	70 kN/m2
Drilling rig weight	16.3 t
*) Ground pressure of the machine with even weight distribution, taking the total weight into account	

Drill mast

▼

Mast type	162-2	202	305 (for HPI)
Frame length	8,600 mm	6,200 mm	6,600 mm
Lattice mast extension (option)	-	-	6,000 + 4,000 + 3,000 mm
Single pass depth (option)	-	-	16,500 mm
Feed force	60 kN	100 / 50 kN	48 kN
Retraction force	60 kN	100 / 50 kN	95 kN
Feed rate	9 m/min	5 / 11 m/min	15 m/min
Retraction rate	9 m/min	5 / 11 m/min	7 m/min
Fast feed rate	56 m/min	33 / 65 m/min	78 m/min
Fast retraction rate	56 m/min	33 / 65 m/min	40 m/min

Drill heads

▼

Rotary head*	Hydraulic drifter*	Double head*
KH 39	KD 3428	KH 25 / KD 1011
*) largest possible drill heads, depending on rig configuration		

Use

Anchoring

Anchoring a wall of an excavation pit using the rack magazine MAG 2.1

