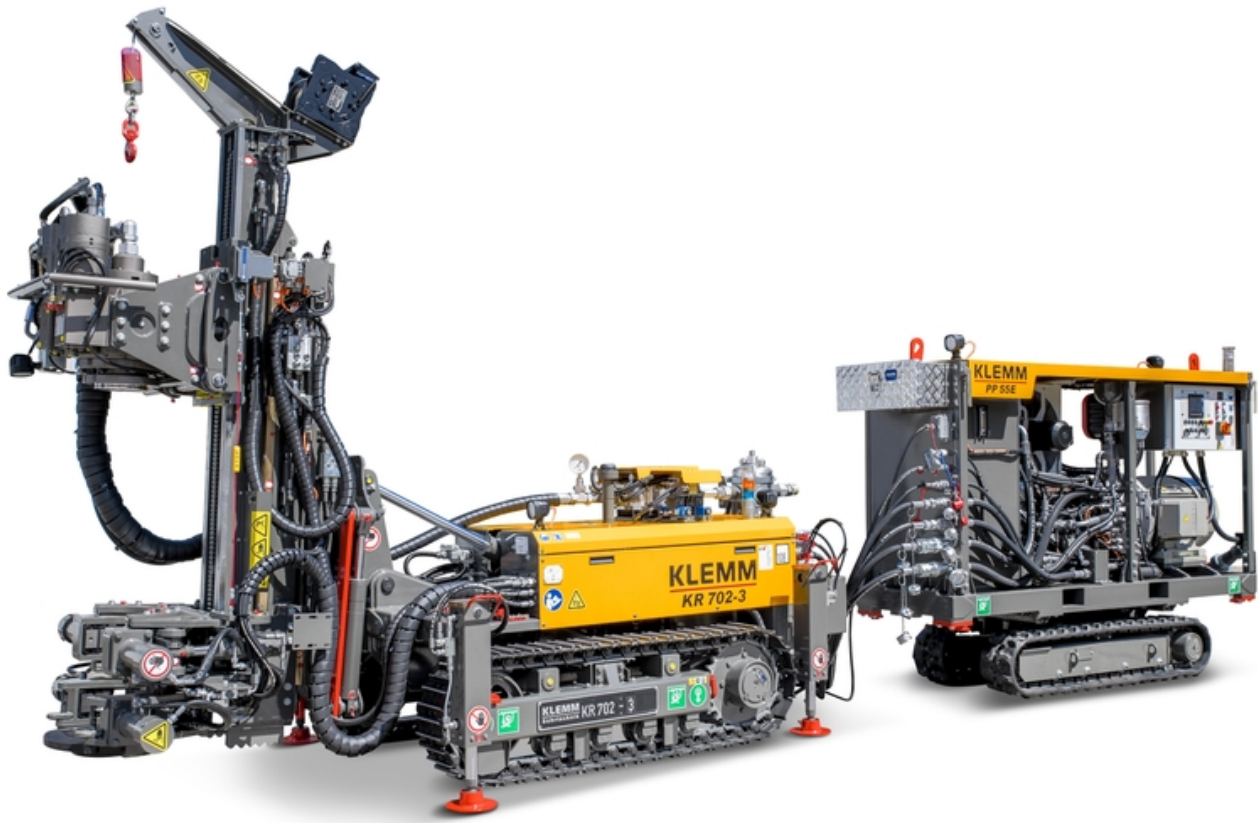


KLEMM

Bohrtechnik



Vertical drilling rig for confined spaces

Drilling rig

KR 702-3

The powerful drilling rig, with separate Power Pack for vertical drilling applications in specialised foundation engineering - inside buildings and outdoors. An electric Power Pack (PP 55E) with 55 kW is available as an alternative to the Power Pack PP 117G (Diesel).

Compactness, performance and versatility.

Versatile drilling rig concept

The drilling rig can be used in a range of ways, for example for micropiles and mini piles, GEWI piles, for underpinning, jet grouting work and uplift anchors.

Working in tight spaces

The KR 702-3 drilling rig is especially suited to work in confined spaces. For extremely compact dimensions, special attention was paid to the optimum design of the rig in terms of performance capability, load-bearing capacity and versatility. The KR 702-3 can be used in confined spaces, as it fits through doors which are up to 2400 mm high and 750 mm wide.

Because the crawler undercarriage can be projected to 1250 mm and has two-point support as standard, it provides excellent stability in all drilling situations. Each side of the crawler undercarriage and each support can be moved separately.

Operator Safety

With the tried and tested radio remote control with display, the operator can take up a safe working position around the drilling rig at all times. In accordance with the requirements of EN 16228, operator safety is ensured by the high functional safety of the control concept. An interlocking movable guard for moving parts in the drilling process is available.

High Performance

The drive of the external Power Pack (117 kW) is extremely efficient in relation to its compact size. The Power Pack complies with the EU Emission Standard Tier 5 for mobile drilling rigs. In combination of the PP 117G with the KR 702-3, the EEP (Energy Efficient Power) and power-sharing technologies are on board.

Electric alternative

With the PP 55E, it is possible to work without exhaust emissions and with reduced noise. The power-sharing technology and the two main pump circuits enable automatic and optimised power distribution according to actual demand.

Advantages



Ideal for cramped spaces

Underpinning, micropiles, injection and uplift anchors in confined working spaces.



Modularity

The drilling rig facilitates various configurations of the drill system, the drill mast design and power source.



Selectable main drive

Both the PP 117G and the PP 55E enable higher power utilisation thanks to power sharing technology.



Telematics

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

Can be adjusted to the task at hand

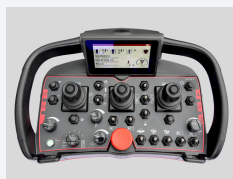
- ✓ Telescopic drill mast and modular drill mast kit
- ✓ Diesel or electric Power Pack, each with Power Sharing technology
- ✓ EEP on the PP 117G, e.g. automatic reduction of diesel engine rpm
- ✓ Interlocking movable Guard (EN 16228)
- ✓ Radio remote control and load-sensing hydraulics
- ✓ Hydraulic drifters can be used
- ✓ Installation of a cable winch in combination with a lateral sliding carriage



Details and options

Machine control

The Power Pack comes with a smart machine control system with a touch screen. Service functions, telemetry with DataLink AIR, EEP (automatic diesel engine speed adjustment) and power sharing (automatic power allocation of the two main pump circuits) are on board.



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 one source.

Technical data

.....

Motor ▼

	PP 55E	PP 117G
Motor type	Siemens (electric)	CAT C 4.4
Certified according to	-	EU Stage V, USA EPA Tier 4f
Motor power	55 kW	129 kW
Electrical connection	400 V~; 50 / 60 Hz; 125 A	-
DEF tank capacity	-	19
Hydraulic oil tank capacity	-	280

Noise and vibration ▼

	PP 55E	PP 117G
Sound power level LWAd	96 dB(A)	109 dB(A)
Full body vibration A(8)eff	< 0.5 m/s ²	< 0.5 m/s ²
Hand-arm vibration A(8)eff	< 2.5 m/s ²	< 2.5 m/s ²

Hydraulic system ▼

--	--	--

PP 55E

PP 117G

1st circuit	110 l/min (variable)	150 l/min load sensing
2nd circuit	110 l/min (variable)	150 l/min load sensing
3rd circuit	20 l/min	25 l/min
4th circuit	-	20 l/min
5th circuit (optional)	-	40 l/min
Operating pressure max.	350 bar	350 bar
Hydraulic oil tank capacity	310 l	410l

Drilling rig

Chassis type	telescopic crawler type	
Crawler components	B00	
Tractive force max.	20 kN	
Crawler speed	1.8 km/h	
Chain width	200 mm (2-rib)	
Ground clearance	210 mm	
Gradeability	20 deg	
Ground pressure*	100 kN/m ²	
Drilling rig weight	5.6 t	

*) Ground pressure of the machine with even weight distribution taking the total weight into account

Drill mast

	Type 160 / Type 164 + PP 55E	Type 160 / Type 164 + PP 117G
Frame length	3,950 mm / 2,390 mm	3,950 mm / 2,390 mm
Lattice mast extension (option)	2,000 + 1,000 mm / -	2,000 + 1,000 mm / -
Single pass depth (option)	5,550 mm / -	5,550 mm / -

Type 160 / Type 164 + PP
55E

Type 160 / Type 164 + PP
117G

Feed force	25 / 40 kN	25 / 40 kN
Retraction force	40 / 60 kN	40 / 60 kN
Feed rate	19 / 13 m/min	23 / 16 m/min
Retraction rate	13 / 8 m/min	16 / 10 m/min
Fast feed rate	75 / 61 m/min	75 / 64 m/min
Fast retraction rate	50 / 37 m/min	50 / 39 m/min

Drill heads



Rotary heads*

Hydraulic drifters*

KH 25

KD 1011

*) max. possible drill heads,
depending on drilling rig
configuration

Use

Fits through narrow doors

The drilling rig can be moved through openings present on the building site, e.g. doors.





Do you need support?

Martin Bonzel

Regional Sales

Region: North America

 +49 2761 705-138

 +49 151 15124270

 martin.bonzel@klemm.de

United States - West


BAUER Equipment America, Inc.


680 Conroe Park West Drive


77303 Conroe, Texas


United States

Juan Gutierrez


 +1 7136997604


 +1 2819170838


 juan.gutierrez@bauer-equipment.com

 www.bauer-equipment.com

Martin Bonzel

 +49 2761 705-138

 +49 151 15124270


 martin.bonzel@klemm.de


United States - Nord-Ost

ECA Equipment Corporation of America

1000 Station Street
15108 Coraopolis, PA
United States


Roy Kern


 +1 4122644480


 akern@ecanet.com

 www.ecanet.com

Martin Bonzel

 +49 2761 705-138

 +49 151 15124270

 martin.bonzel@klemm.de