

Drill rig

KBS-Series K100

KERN-DEUDIAM

Diamantwerkzeuge und Maschinen GmbH

Tel. +49 5257 507-0 Industriestraße 24

Fax +49 5257 507-40 33161 Hövelhof

kern-deudiam.de | info@kern-deudiam.de

Operation manual
drill rig
KERN-DEUDIAM KBS-Series
K100

*Please read these instructions carefully before
starting up the machine to avoid accidents and
work interruption.*

1. Table of contents

1. Table of contents
2. Work- and safety instructions
3. Technical details; delivery contents
4. Operative range and determined application
5. Connection and Assembly
6. Operation
7. Maintenance

2. Work- and safety instructions

Conformity with the laws 73/23/EWG i.d.F. 93/68/EWG will be with the CE-sign declared

Please read these instructions carefully before starting up the machine !!!

The drill stand has been built corresponding to the latest technics and safety requirements. Dangers can arise if operated by non qualified persons or used for non determined application.

Every person in the works of the user, who are familiar with the operating, maintenance and servicing of the drill stand, must read the complete operating manual and in particular the safety instructions. These must be understood. It is recommended that the user receives a written confirmation of this.

Included in determined application is the adherence of the manufacturers specified Assembly, disassembly, setting into operation and maintenance conditions.

The drill stand may only be operated and maintained by authorised, trained and instructed persons. These persons must be informed of any dangers that may occur.

Every work method is forbidden, which could endanger safety. The operator is also responsible if non-authorized persons work with the machine.

The operator is obliged to report any alterations to the machine which could endanger safety immediately.

The operator is also obliged only to operate the drill stand when it is in flawless condition.

It is not permitted to make any alterations to the machine which could endanger safety. Keep working area clean. Cluttered areas and benches lead to injuries.

All maintenance work on the machine is to made while the machine is still and with core drill machine is switched off. Dress properly. Do not wear loose clothing. They can be caught in moving parts. Keep proper footing and balance at tall times.

Maintain tools with care. Keep tools sharp and clean for better and safer performance. Check damaged parts. Disconnect tools when not in use, before servicing and when changing accessories such as core drills and spare parts.

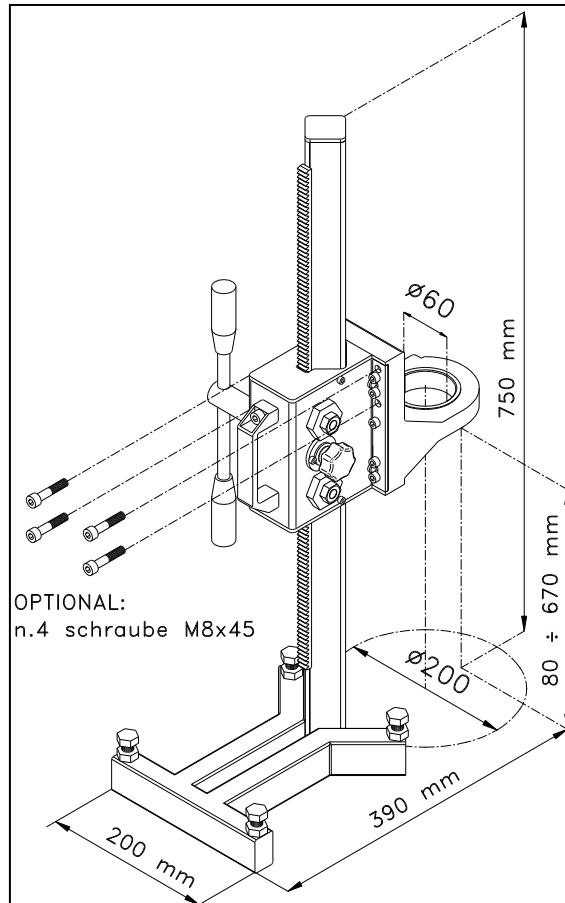
Works on electrical facilities must only be executed by skilled workers or especially instructed persons under guidance and supervision of a skilled worker corresponding to the electrotechnical rules.

The operator must wear ear protectors when the drill is in operation. Rubber gloves and non-skid footwear are recommended when working outdoors.

For the operation of the drill stand the local regulations of safety and accident prevention, also manuals of core drilling machines and other equipment parts must be absolutely noted.

3. Technical details; delivery contents

machine description:	drill stand
machine type:	KBS 100
weight:	9 kg
max. drilling diameter:	150 mm
stroke:	500 mm



1 pc. of drill stand contents of: guide system (column) Y-axis with base plate and carriage Y-axis with mounting device complete; 1 pc. of spanner; 1 pc. of Inbus spanner; Operation manual

4. Operative range and determined application

The drill stand type KBS 100 is exclusively designed for production of core holes up to max.- \emptyset 152 mm in concrete, brickwork or similar materials.

Other or additional uses against the manufacturers/ suppliers instructions shall be considered as contravening the regulations. The manufacturer/ supplier shall not be held responsible for any result damage. Any risk shall be borne entirely by the user. Observing the operating instructions and compliance with inspection and servicing requirements shall also be considered as included under use in accordance with the regulations.

5. Connection and Assembly

Before commencing work, make yourself familiar with the working environment at the place of use. The working environment includes e.g. obstacles in the area of work and manoeuvre, the firmness of the floor, necessary protection at the site relating to public thoroughfares and the availability of help in the event of accidents.

Find out whether any supply lines are in the cutting area! Consult an architect if necessary to see whether cutting may affect the static of the building!

Avoid danger caused by effluent cooling water (e.g. electrical hazards, slippery floors due to ice formation)! Take measures to collect and remove water. Take measures to secure the part to be cut out in its initial position corresponding to its weight in order to prevent uncontrolled movements!

Also protect the working area from unwarranted access on the tools output side, on the rear side of the part!

Fastening the base plate:

The anchor hole is to be drilled approx. 250 – 300 mm from the centre of the drill hole. Fasten the base in this exact position. To ensure a sufficient fixture only M12 heavy-duty anchors or M12 hammered anchors are to be used. The recommended load should not be less than 4.5 kn. Please consider the instructions of the manufacturer. After the base plate has been secured, the adjusting screws are to be tightened until the base plate is firm on the ground.

Fastening the core drilling machine at the drill stand:

The core drilling machine (hand held) placed upon the mounting device (Ø 60 mm). Then fasten it with the socket head cap screw by using a socket wrench.

Electrical connection:

The electrical connection of core drilling machines must be effected via a residual current circuit-breaker (RCD, PRCD). Furthermore, such machines may only be operated with properly earthed socket outlets. The rated current, i.e. fault current at which the circuit-breaker will switch off, is 10 mA (hand held machines).

Cooling water:

Connect the core drilling machine via plug-in nipple by using a GARDENA coupling. Use only clean water!

6. Operation

Select the right speed at the core drilling machine (note the instruction plate). Open the stop valve for cooling water. Then start to operate.

Please think that you are working with an expensive tool and machine. “Feel” a little bit for the tool and the machine. Not too much pressure onto the tool. After some time you even feel the steel in the reinforced concrete.

7. Maintenance

Read operating safety instructions when carrying out maintenance work.

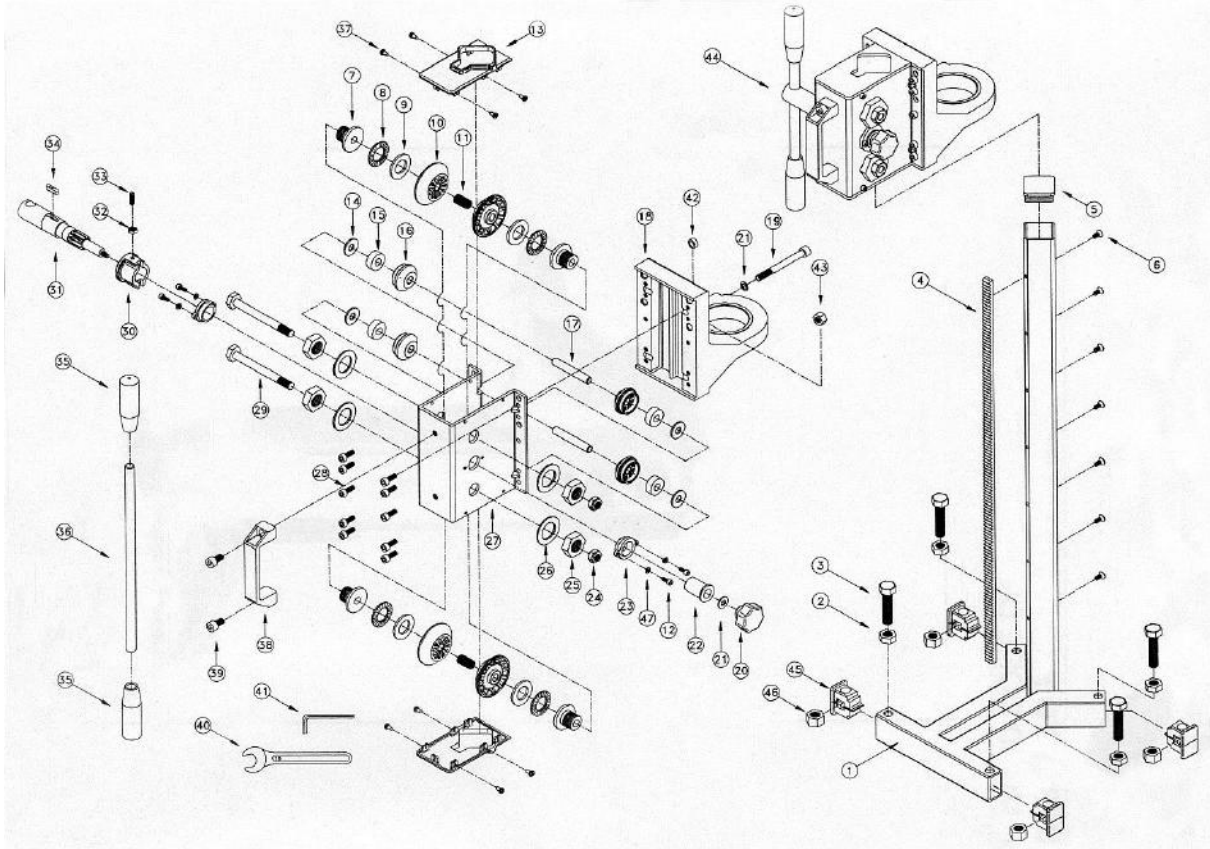
Disturbances caused by an insufficient or improper maintenance can lead to high repair costs. Regular maintenance is there for essential.

Disconnect tools before servicing. Be certain that the carriage cannot move down.

The following maintenance work should be held:

- clean the machine after every working day
- visual inspection for leakage at the core drilling machine, check seals and spindle
- check electrical parts for damage, exchange damaged cables and plugs
- after 50 working hours, grease the toothed rack, keep clean and oil slightly the guide column
- lubricate slightly hexagon screws at the base plate

exploded view



Spare parts list:

Item	Quantity	Ident-no.	Item	Quantity	Ident-no.	Item	Quantity	Ident-no.
1	1	503552	17	2	503579	33	1	503580
2	4	500663	18	1	503563	34'	1	503581
3	4	502397	19	1	500916	35	2	502551
4	1	501106	20	1	501071	36	1	501767
5	1	503572	21	2	500355	37	8	501723
6	7	503019	22	1	503562	38	1	500416
7	4	503575	23	2	503564	39	2	501167
8	4	500092	24	2	502444	40	1	501163
9	4	500093	25	4	503623	41	1	502491
10	4	503567	26	4	503602	42	1	503585
11	2	503583	27	1	503551	43	1	500421
12	4	502278	28	10	500764	44	1	503600
13	2	503571	29	2	503578	45	4	503643
14	4	500977	30	1	503569	46	4	501245
15	4	501109	31	1	503561	47	4	502089
16	4	503568	32	1	502004	48	-	-

For more information please contact our service department.

- Phone: + 49 (0) 52 57 – 507 0
- Fax: + 49 (0) 52 57 – 507 40
- www.kern-deudiam.de
- info@kern-deudiam.de

This operation manual is only for the use of the KERN-DEUDIAM-drill rigs series KBS. This operation manual is CE-concurring. See attached suppliers declaration.