



KERNLOCHBOHRER[®]
PROFESSIONAL POWER TOOLS



Operating instructions

Telescopic drill stand

TBS-3000/PRO

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Introduction and description

The TBS-3000/PRO telescopic drill stand is designed for mounting diamond core drilling equipment. It is intended for professional use and may only be used by trained personnel.

Our company accepts no responsibility for any violations of the operating instructions that may result in injury or damage to the machine. In addition, all currently applicable regulations of the accident prevention regulations (UVV) and the employers' liability insurance association (BG) must be observed.

Thanks to the purchaser

Thank you for purchasing a telescopic drill stand from Kernlochbohrer GmbH. Please read the operating instructions carefully and observe the safety instructions. By operating the machine correctly, you will fully appreciate the outstanding performance of our products. Keep this manual in a safe place for future reference. If you have any questions about the operation of the telescopic drill stand, please contact Kernlochbohrer GmbH directly. We are available to answer your questions at any time.

Note:

Kernlochbohrer GmbH reserves the right to change the design and appearance of its products and their operating instructions. Future changes to the operating instructions will be made without prior notice.

Explanation of symbols



Warning of general danger. Failure to observe these safety precautions and instructions may result in electric shock, fire and/or serious injury.

Safety regulations

- ❖ Read all precautions before use and keep the operating instructions.
- ❖ Please follow the operating instructions carefully, as failure to comply with these safety precautions and instructions may result in electric shock, fire and/or serious injury.

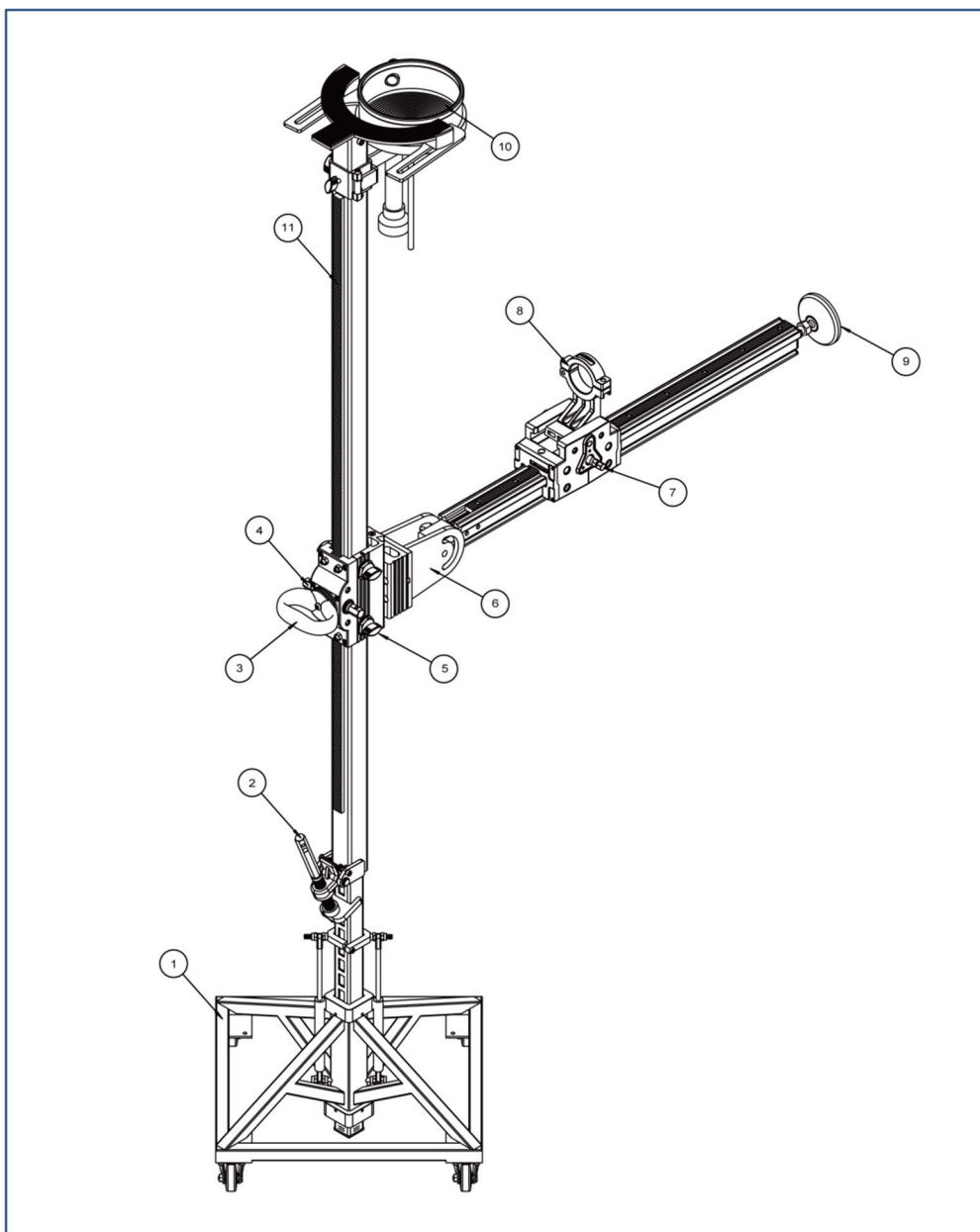
1. Keep your work area clean and well lit. Cluttered or unlit work areas can lead to accidents.
2. Do not operate power tools near flammable liquids, gases or dust. Power tools generate sparks that can ignite dust or vapours, causing explosions.
3. Keep children and other people away while using tools. If you become distracted, you may lose control of the tool.
4. Be alert, stay focused and pay attention to what you are doing. Do not use power tools if you are tired or under the influence of drugs, alcohol or medication. A moment of inattention can result in serious injury.
5. Wear suitable protective equipment and always wear safety goggles. Wearing suitable protective equipment such as a dust mask, non-slip safety shoes, gloves, a safety helmet or ear protection reduces the risk of injury.



6. Avoid awkward body positions. Keep your footing secure and maintain your balance at all times. Do not work on a ladder. This will allow you to better control the power tool in unexpected situations.
7. Wear suitable clothing. Do not wear loose clothing or jewellery. Keep hair, clothing and gloves away from moving parts. Loose clothing, jewellery or long hair can be caught in moving parts.
8. The use of products such as milling cutters, grinders and drills that process sand or other materials can generate dust and vapours that may contain hazardous chemicals. Check the type of material you want to process and use a suitable breathing mask.

9. Never work alone; always ensure that another person is nearby. In addition to receiving assistance with assembling the drill, you can also receive help if an accident should occur.
10. Never use a drill that is faulty. Follow the maintenance and service instructions described in this manual. Some maintenance and service procedures must be performed by trained and qualified personnel.
11. Before assembling the drill motor and drill bit, ensure that the stand is properly secured.
12. The drill stand must be secured to a level and firm surface. Drilling with a loose and/or wobbly stand can lead to a dangerous situation.
13. The core drill stand is intended for the purpose of mounting the drill motor for drilling. Any other use not intended for the intended purpose is prohibited.
14. **Note!**
The drill motor should be compatible with the drill stand. Never use a drill bit that exceeds the maximum drilling diameter of the power tool. The maximum drilling diameter for use with the TBS-3000/PRO is 200 mm. The drill motor and drill stand must be compatible and must not exceed the specified values.
15. When using the drill stand for overhead drilling, a functional water collection ring must be used. Ensure that no water can enter the motor.
16. Check all moving and tensioned parts before use.
17. Only use original spare parts from Kernlochbohrer GmbH.
18. Unauthorised spare parts and any modifications to our products are prohibited.

Product description



- | | |
|--------------------------------|---------------------------|
| 1. Base frame | 7. Drilling carriage |
| 2. Quick-release lever | 8. Ø 60 mm clamp holder |
| 3. Handle for horizontal slide | 9. Support foot |
| 4. Horizontal slide | 10. Water collection ring |
| 5. Wing screw | 11. Telescopic column |
| 6. Angle clamp | |

Technical data

Model:	TBS-3000/PRO
Item number:	6297
Max. drill bit size:	202 mm
Outer tube:	50 x 50 x 1700 mm
Inner tube	40 x 40 x 1700 mm
Drill column:	60 x 62 x 900 mm
Drilling stroke:	1700 - 3000 mm
Motor mount:	60 mm adapter plate and Ø 60 mm clamp mount
Packaging dimensions:	2290 x 580 x 670 mm

Assembly and drilling

For horizontal and vertical drilling

Operate the quick-release lever (2) to move the telescopic column (11) up and down according to the ceiling height until the upper part of the stand is at the top and the lower part of the inner tube is at the bottom. Now clamp the telescopic drill stand using the hand crank on the quick-release lever (2).

For horizontal drilling, adjust the height of the cross arm to your desired working position.

Turn the support foot (9) until it sits perfectly on the surface of the wall. If an angle drill hole is required, first loosen the wing screw (5) and adjust the drill arm to the desired angle, then tighten the wing screw (5) again. The support foot (9) must also be braced against the wall.

Use either the Ø 60 mm clamp holder (8) to mount the core drilling machine on it or the appropriate adapter plate for the corresponding core drilling machine. Ensure that the core drilling machine is securely fastened to the drill carriage (7).

The drill bit can now be mounted on the machine. Please note that the maximum drilling diameter for the TBS-3000/PRO is 202 mm.

Crank the spindle on the drill carriage (7) of the cross arm to start drilling.

For ceiling drilling

Operate the quick-release lever (2) to move the telescopic column (11) up and down according to the ceiling height until the upper part of the stand is at the top and the lower part of the inner tube is at the bottom. Determine the centre of the drill hole using the centring tip at the end of the telescopic drill stand. Now clamp the telescopic drill stand using the hand crank on the quick-release lever (2).

When drilling into the ceiling, first loosen the locking screw and remove the cross arm.

Use the Ø 60 mm clamping bracket to secure the core drilling machine in place. Ensure that the core drilling machine is securely fastened in the clamping bracket.

The drill bit can now be mounted on the machine. Please note that the maximum drilling diameter for the TBS-3000/PRO is 202 mm.

Crank the drill carriage on the telescopic column to start drilling the ceiling.

Ensure that the water collection ring (10) is used for wet drilling overhead and that a dust extraction system is used for dry drilling.

Care and maintenance

Repairs may only be carried out by qualified personnel with the appropriate training and experience. The telescopic drill stand is designed to require a minimum of care and maintenance. However, the following point must always be observed:

- After completing drilling work, clean the telescopic drill stand of dirt and dust and grease the stand if necessary to make it easier to operate.
- After completing work with the stand, grease the needle roller bearings and their threads. Ensure that no water is running out of the drill carriage and that there is no dust adhering to the drill carriage.
- If possible, do not use water to clean the drill stand, as some metal parts may develop surface rust, which can lead to malfunction. Ensure that the drill stand is dry after use and cleaning.
- There are 4 rollers at the front of the drill carriage. There are 4 eccentric clamps at the rear. Over time, the rollers may wear out. If this is the case, tighten the 4 eccentric clamps slightly until the slide can be moved again without play. If it is no longer possible to readjust the eccentric clamps, all 4 rollers must be replaced to prevent further damage to the gear shafts and rack.
- Always check for the wear listed above. Replace the rollers and/or eccentric clamps if necessary. If the problem persists, replace the drill column.
- Check the stability of the drill stand before each use. If the base frame of the drill stand is damaged, replace it before using the drill stand.
- Carry out regular visual and functional checks to ensure that all clamps and moving parts are fully functional.
- Failure to comply with these instructions may result in malfunction of the drill stand and injury to the operator.

Maintenance and inspection schedule

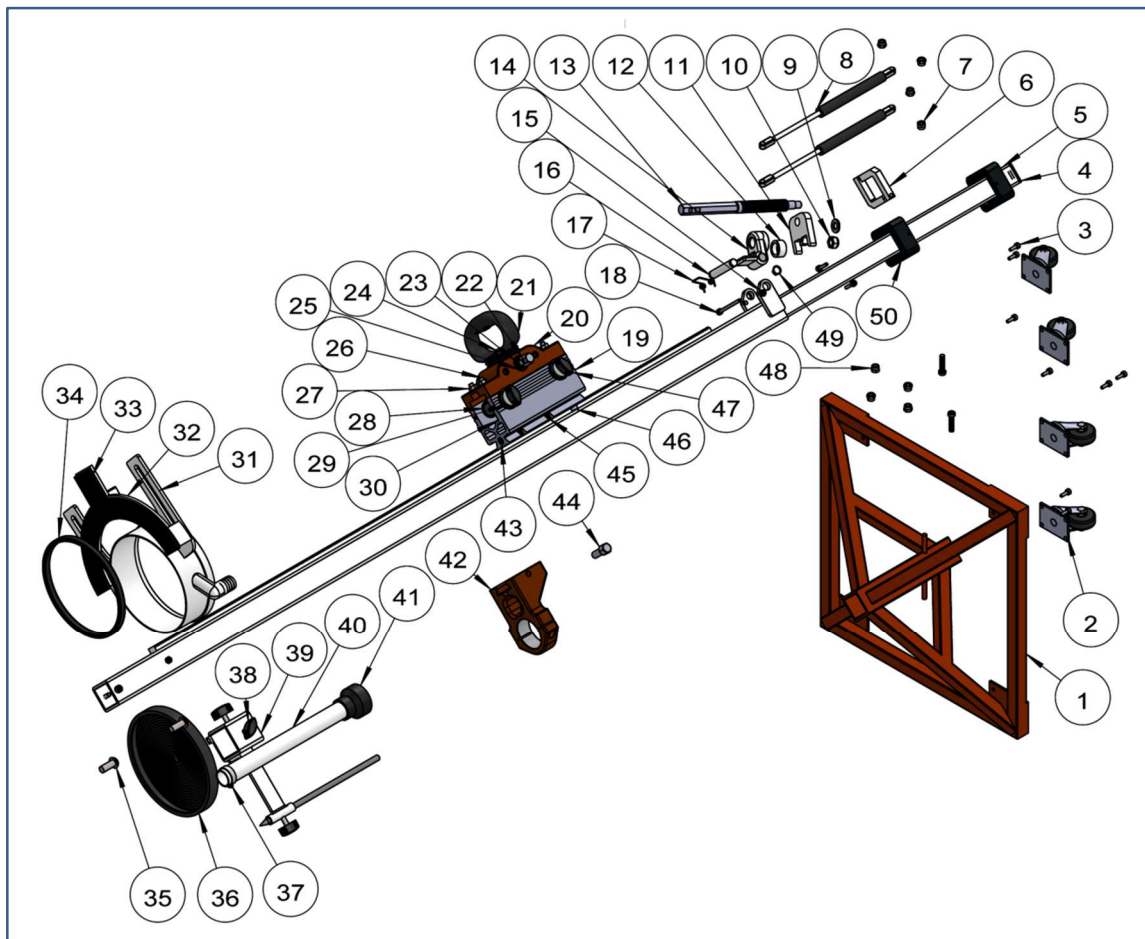
Regular inspection in accordance with the maintenance and inspection schedule is essential. Shorten the intervals between individual maintenance checks if you use the product very frequently.

Maintenance parts	Every time before use	Monthly or after 25 operating hours	Every 3 months or after 50 operating hours	Annually or after 200 operating hours
Greasing the needle bearing of the gear shaft	√	√	√	√
Lever lock	√	√	√	√
Clamping and wheels	—	√	√	√
Drill column	—	—	—	√
Gear shaft and gears	—	—	—	√
all clamping and tensioning parts and threads	√	√	√	√
Rack	—	√	√	√
Welded seams of the base frame	—	√	√	√

Troubleshooting

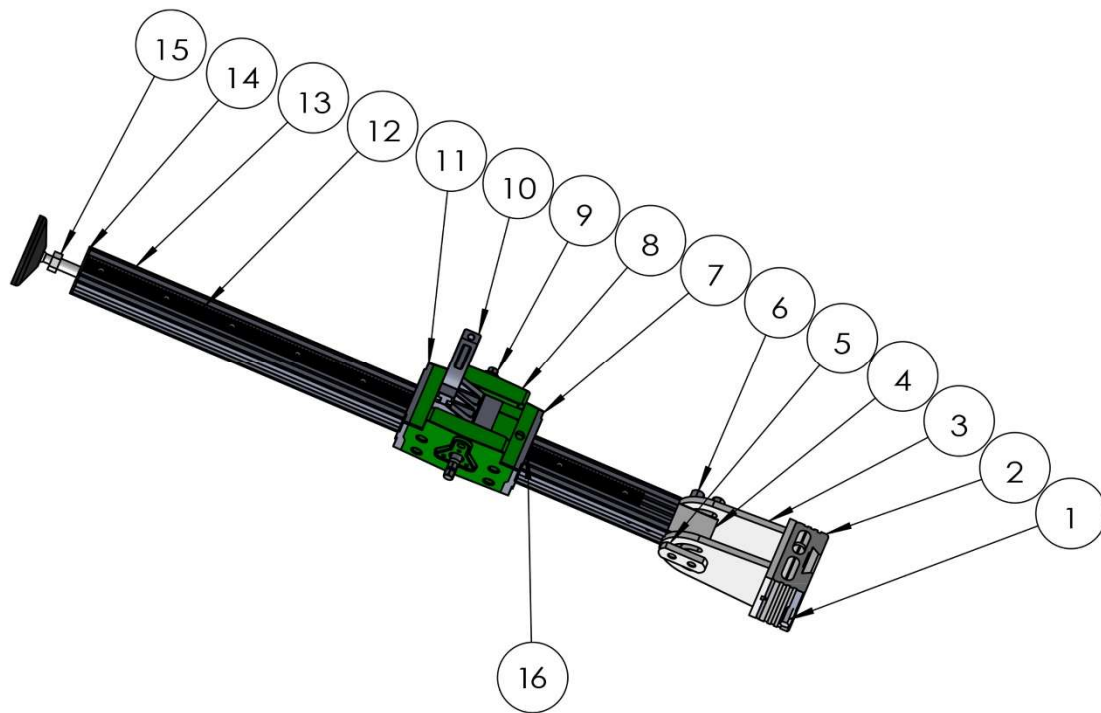
Fault	Cause	Troubleshooting
The carriage wobbles	Clamp worn	Tighten the 4 eccentric clamps
The carriage is stuck	All 4 rollers worn	Replace all 4 rollers
Concentricity of the drive shaft on the rack	Wear on the gear shaft or rack	Replace the worn part
Sledge lever lock cannot engage on the rack	The lock has become deformed or the weld seam is coming loose	Replace the lock
After replacing all eccentric clamps and aligning the wheels, the movement of the carriage is still irregular	The drill column is worn	Replace the drill column
Drill motor cannot be clamped	Wear on the clamping surface	Replace the clamping bracket or clamping holder \varnothing 60 mm
Drill column begins to wobble slightly	Crack in the weld seam of the base frame to the column holder	Replace the base frame of the drill stand

Exploded view



No.	Designation	Quantity
1	Telescopic column base	1
2	4" silent rubber wheel	4
3	Hexagon socket screw M6x12	16
4	Square tube plug cap 40x40	1
5	Inner tube of the telescopic column 40x40x1800mm	1
6	Column mount	2
7	Cap nut M8	4
8	Gas spring L300	2
9	Washer Φ 12	1
10	Lock nut M12	1
11	Positioning block	1
12	Adjustment disc	1
13	Adjusting screw rod	1
14	Adjustable base	1
15	Lock nut M6	2
16	Positioning bolt D14x78	1
17	Spring	1
18	Hexagon socket screw M6x80	1
19	Sledge	1
20	Gear assembly	1
21	Rubber handle	1
22	Shaft	1
23	Retaining ring Φ 20	2
24	Hexagon socket mushroom head screw M8x25	4
25	Copper sleeve	2

No.	Designation	Quantity
26	Hexagon socket screw M8x20	4
27	Hexagon socket screw M8	4
28	Slotted nut #1	4
29	Aluminium hexagon screw	4
30	Slotted nut #2	2
31	Dust cover	1
32	Dust-protected bracket	1
33	Anti-slip pad	1
34	U-ring 12x6mm	1
35	Hexagon socket mushroom head screw M12x25	2
36	Water collection ring	1
37	Stainless steel hose clamp	1
38	Plastic wing screw M8x20	3
39	Pilot pin assembly	1
40	Steel wire reinforced PVC hose Φ 32x300L	1
41	Vacuum hose coupling	1
42	Φ 60 Clamping bracket	1
43	Spirit level Φ 12x6mm	1
44	Safety screw M12x45	1
45	Positioning block	2
46	Hexagon socket screw M8x16	1
47	Plastic wing screw M8x35	4
48	Spacer sleeve	4
49	Retaining ring Φ 12	2
50	Rectangular tube bracket	2



Cross arm mounting of the TBS-3000/PRO

No.	Designation	Quantity	No	Designation	Quantity
1	Safety screw M12x45	1	9	Crankshaft M1.5x11T	1
2	Cross arm mounting spacer T=50mm	1	10	Φ60 clamp mount	1
3	Cross arm clamp	1	11	Bottom slide guard	1
4	Rotatable mounting block	1	12	Rack L=900 mm	1
5	Mounting block	1	13	Support arm column 50x50x900mm	1
6	Fastening screw M12x80	2	14	Support leg mounting plate	1
7	Top slide guard	1	15	Adjustable support foot M16	1
8	DSP-162 carriage	1	16	Sledge lever lock	1

Environmental protection

Raw material recovery instead of waste disposal!

To prevent damage during transport, the device must be delivered in sturdy packaging. The packaging, device and accessories are made from recyclable materials.

The plastic parts of the device are marked according to material type. This enables environmentally friendly, single-type disposal via the collection facilities provided.

Warranty

In accordance with our general terms and conditions of delivery, a warranty period of 12 months applies to material defects in business transactions with companies (proof by invoice or delivery note). Damage resulting from natural wear and tear, overloading or improper handling is excluded from this warranty. Wear parts such as the column, the tensioner and the locating wheels or needles, etc. are excluded from the warranty. Damage caused by material or manufacturing defects will be repaired or replaced free of charge. Complaints can only be accepted if the device is sent to the supplier without being dismantled.

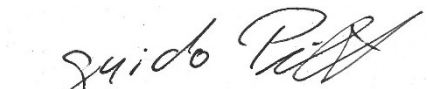
EC Declaration of Conformity

It is necessary that the machine operated in this drill stand (e.g. DKB-PRO series) meets the requirements described in the technical data of the drill stand (e.g. drilling diameter, machine mount). We hereby declare that this unit has been designed in accordance with Directive 2006/42/EC. Commissioning of this drilling unit is prohibited until it has been established that the power tool to be connected to this unit complies with the provisions of Directive 2006/42/EC (indicated by the CE marking on the power tool).

Name and address of the person authorised to compile the technical documentation:

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Town: Großbettlingen
Date: 17 May 2023



Guido Pillat
Chief Executive Officer