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DIAMOND CORE DRILL STANDS

INSTRUCTION MANUAL

(Rev.20241018-A1.0)

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1. INTRODUCTIONS

·Read and understand this manual before start working with diamond core drill stands. Save this instruction manual for future reference!

·Consult to specialists when you still feel uncertain about operating procedures after reading these instructions. If you have more questions about the use of our products, do not hesitate to contact us or our authorized distributors for more information.

·The DBS-162 drill stands are designed to mount diamond core drilling motors. It's intended for professional use and may be used by trained personnel only.

·Unauthenticated spare parts and any modification are prohibited on our products.

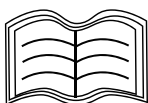
·Please note: Hangzhou Bycon Industry Co., Ltd. reserves the right to modify the design and appearance of products and their instruction manuals. Future amendments of the manuals will be made without prior notice.

·Thank you for choosing Bycon!

2. SYMBOLS USED IN THIS MANUAL



Warning of general danger. Failures in the compliance with these safety precautions and instructions can cause electric shock, fire and/or heavy injuries.



Before start working, read all safety warnings and instructions carefully.



In order to protect the operator, always wear approved personal protective equipment.



See Declaration of Conformity section for detailed info.



Before the beginning of the maintenance or repair works, make sure the plug disconnected from the mains.

3. TECHNICAL DESCRIPTION

DBS-162

- ① Steel Gear Rack
- ② Lock Knob
- ③ Ø60 Bracket
- ④ Angle Adjustment Handle
- ⑤ Steel Column
- ⑥ Anti-vibration Handle
- ⑦ Intake valve
- ⑧ Exhaust valve
- ⑨ Drill Bit Centering Device
- ⑩ Leveling bolt
- ⑪ Vacuum pressure gauge
- ⑫ Base
 - A: Vacuum Base
 - B: Anchor Fixing



Specification

Model:	DBS-162
Art No:	1071162
Max.Drilling Diameter:	252MM
Column:	40x40x850MM
Travel Length:	580MM
Motor Installation:	Ø60MM bracket
N.W:	16.75KG
Packing Dimension:	1037.5x282x401MM
Wheels Kits:	Optional

4. SAFETY INSTRUCTIONS

WARNING!

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in severe injuries and/or even death.

The term "drill rig" used in this manual refers to the drill stand that has a motor mounted on.

4.1 Work area safety:

4.1.1 Keep working area clean and well lit. Cluttered or unilluminated working areas can cause accidents.

4.1.2 Keep children and other persons away while operating a power tool. When being distracted, operator may lose control on the power tool.

4.1.3 Do not operate the drill rig in bad weather, such as dense fog, heavy rain, strong wind, intense cold, etc. Working in bad weather is tiring and can lead to dangerous conditions, e.g. slippery surfaces.

4.1.4 Never start to work with the power tool before the working area is clear and you have a firm foothold. Look out for any obstacles with unexpected movement. Ensure that no material can become loose and fall, causing injury when operating.

4.1.5 Always check the rear side of the surface where the drill bit will emerge when drilling right through. Secure and cordon off the area and make sure that no one can be injured or material damaged.

WARNING!

Warning! The use of products such as cutters, grinders, drills, that sand or form material can generate dust and vapors which may contain hazardous chemicals. Check the nature of the material you intend to process and use an appropriate breathing mask.

4.2 Personal safety :

4.2.1 Must wear approved personal protective equipment, including, but not limit to protective helmet, protective goggles or a visor, hearing protection equipment, whenever operating the drill rig.

4.2.2 Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.

4.2.3 Dress Properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

4.2.4 Never work alone, always ensure there is another person close at hand. Apart from being able to receive help to assemble the drill rig, you can also get help if an accident should occur.

4.2.5 Never use a drill rig that is faulty. Carry out the checks maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified personnel.

4.2.6 Keep the drill rig out of reach of children and store the power tool and stand in dry and frost-free conditions.

4.3 Drill stand safety instructions :

WARNING!

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and /or serious injury.

4.3.1 Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

4.3.2 Before mounting the drill motor and drill bit on, make sure that the stand is fixed properly.

4.3.3 Make sure that the drill motor is mounted properly to the stand as well before start operating.

4.3.4 The drill stand must be fixed on a level and solid surface. Drilling with a loose and/or shaking stand could result in hazardous situation.

4.3.5 The drill stand is for the intended purpose of mounting drill motor to stand drilling. All other uses which are not for intended purpose are prohibited. Never step on the drill stand or overweight the stand with other objects on it, it may lead to a topple-over.

4.3.6 Always use compatible drilling tools with the drill stand. The connection on power tools must be in accordance with the stand.

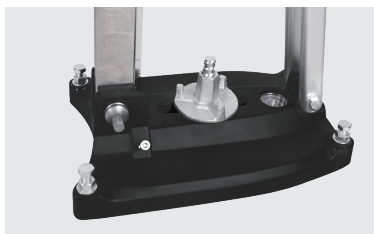
4.3.7 When used for overhead drilling, a perfectly functional water-collecting ring must be used. Meanwhile make sure that no water can get into the motor.

4.3.8 Always keep the working surface of the stand tide and clean.

5. INSTALLATION

5.1 To install the drill stand

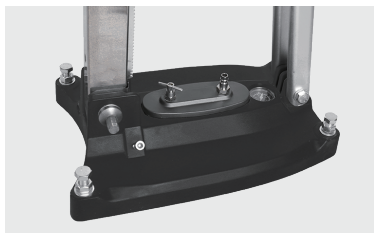
5.1.1 Once the desired position of the stand is determined, use a concrete anchor to secure the stand. Drill a suitable sized hole for the anchor with a hammer drill.



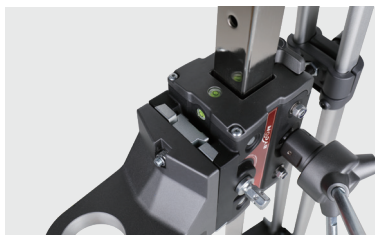
5.1.2 When anchoring to a brick surface, a special masonry anchor and brick fixing kit must be used. Using a concrete type drop-in anchor in brick could lead to the brick cracking and the anchor loosening!

5.1.3 With vacuum fixing, make sure the fixing surface is level and no sundries, and the vacuum is sufficient to ensure the base is fixed perfectly.

Attention! When perform an overhead drilling, vacuum fixing on the ceiling is prohibited, for it may lead to serious injury.



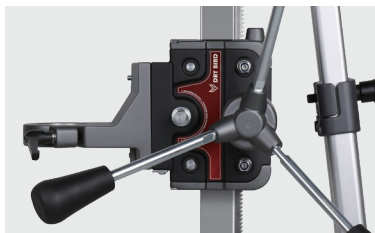
5.1.4 Using the bubble level on the carriage, adjust the four leveling bolts to achieve a good level positioning, then fully tighten the locknuts on leveling bolts. The entire stand must be mounted solidly. Both vertical and horizontal drilling share the same way to adjust a fixed drill stand.



5.1.5 The normal adjustment range for the drilling angle is 0 to 45 degrees. When adjusting to a 45-degree drilling angle, loosen the handle screw, set the desired angle, tighten the handle screw, then tighten the locking bolt under the guide rail to secure it. Ensure the guide rail is firmly clamped without loosening. Do not over-tighten, as this may cause the diagonal support aluminum tube to deform.



5.1.6 Check if the guidance is loose on the column. If loose, you need to adjust the 4 eccentric tensioners inside of the carriage. To adjust, use 13 wrenche to tighten the tensioner nut. Now test the tightness of the carriage by cranking it up and down. There should be no free-play, yet no binding throughout its travel.



5.1.7 Use ø60mm bracket when installing core drill motor on DBS-162



5.1.8 Before mounting the drill motor on the drill rig, first adjust the rolling assembly to a higher position that makes it easier to install the drill. Loosen the locking knob on the top cover of the rolling assembly so that it can slide

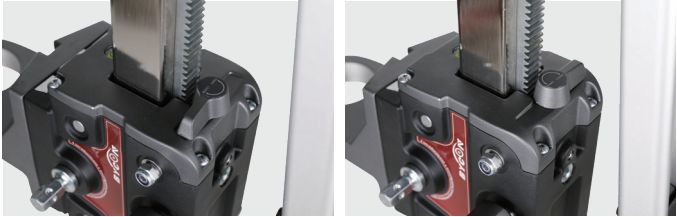


freely. Adjust the position of the rolling assembly so that the gear teeth engage with the rack teeth. Ensure the rolling assembly is securely fixed to the guide rail.

5.1.9 When using four fastening bolts to secure the drill motor to the drill rig, first use the four bolts to fix the motor plate to the drill motor. The torque is transmitted by a flat key 10*10*100 between the motor plate and the rig joint surface. After assembly, insert the dovetail section of the drill motor into the wedge part of the bracket's dovetail groove. Tighten the threaded locking shaft on one side of the motor plate until the it is fully tightened and the ø60 bracket without any movement.

5.1.10 When adjusting the threaded locking shaft on one side of the rig, loosen the locking shaft until the dovetail block retracts into the left wedge groove. This will allow you to remove the ø60 bracket along with the drill motor.

5.1.11 The rig assembly lock is located on the top cover of the rolling



assembly and is primarily used for installing the drill motor and ensuring worker safety.

First, loosen the knob on the lock so that the lock can slide freely. Then, push the lock into the gap between the rack teeth, at which point the drill can be installed, and the assembly will not slide down. Conversely, when the lock is pulled out from the gap between the rack teeth, the rolling assembly can move linearly along the guide rail. In this case, the bolts on the bracket lock buckle need to be locked and without moving. Attention!

Do not crank up and down the carriage with lever lock in lock position, it will damage both gear rack and the lever lock.

5.1.12 When installing the drill motor with the motor plate, first ensure that the threaded locking shaft on one side is completely loosened. When placing the drill motor with the dovetail motor plate, the bottom plane of the dovetail motor plate must fully align with the bottom plane of the clamping section. Tighten the dovetail clamping screws on both sides to the bottom. Visually ensure that the gap on both sides is even.

5.1.13 Tie rod wing nut (in optional anchoring kit) is a large wing-shaped nut with washer. It can be used together with an expansion anchor bolt to fix the drill stand to the surface.



5.1.14 When perform a wall drill with stand, always fix the stand securely to the wall first, then mount the drill motor next.

6.DECLARATION OF CONFORMITY

We declare under our sole responsibility that our drill stands model: DBS-162
conform with following standards or standardization documents:
in accordance to the regulations of Machinery Directive 2006/42/EC.