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DIAMOND CORE DRILL STANDS

INSTRUCTION MANUAL

(Rev.20200628-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 DSP-162 and DSP-252 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.

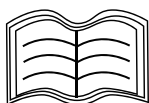
·Please note: Hangzhou Bycon Industry Co., Ltd. reserves the right to modify the design and appearance of products and their instruction manuals. Future amendments of the manuals will be made without prior notice.

·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

DSP-162



Specification

Model:	DSP-162
Art No:	1070162
Max.Drilling Diameter:	202MM
Column:	60x62x850MM
Travel Length:	510MM
Motor Installation:	Φ60MM bracket
N.W:	11.5KG
Packing Dimension:	990x265x410MM
Wheels Kits:	Not included

TECHNICAL DESCRIPTION

DSP-252



Specification

Model:	DSP-252
Art No:	1070252
Max.Drilling diameter:	252MM
Column:	60x62x900
Travel Length:	580MM
Motor Installation:	Φ60MM bracket 60MM mounting spacer
N.W:	13.5KG
Packing Dimension:	1045x290x455MM
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.

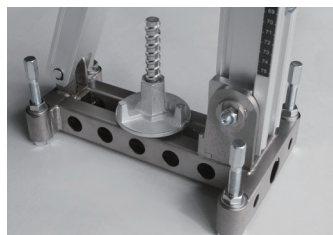
4.3.7 When used for overhead drilling, a perfectly functional water-collecting ring must be used. Meanwhile make sure that no water can get into the motor.

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.

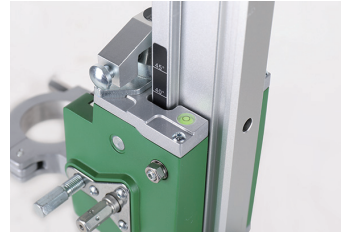
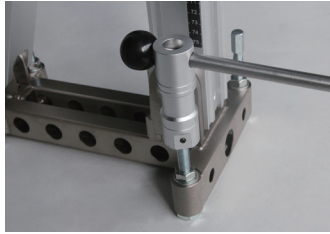


5.1.2 When anchoring to a brick surface, a special masonry anchor and brick fixing kit must be used. Using a concrete type drop-in anchor in brick could lead to the brick cracking and the anchor loosening!

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 Adjust the angle of the drill stand to a proper position based on the center of the desired drilling hole. The adjustable drilling angle ranges from 0° to 45°. When need to drill in 45°, using the attachable 13mm crank handle to loosen the clamp

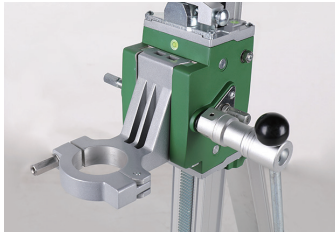


bolt on the top of the back support, then adjust the angle according to the angle measurement decal on the back of the back support. Once the angle is set, tighten the clamp bolt to finish. Tighten the clamp bolt on the carriage to make sure the mounting plate or bracket is not loose. Attention! Do not overtighten the clamp bolt, otherwise the back of column and cradle will be deformed.

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 13mm wrench 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 A Φ 60mm clamp bracket is provided with smaller stand as in DSP-162 while DSP-252 has both clamp bracket and mounting spacer. Both mounting methods depend on the type of the drill motor. E.g. DMP-162 is a hand-held type drill motor, then Φ 60mm clamp bracket must be used when mount it to the stand.



5.1.8 Before mounting the drill motor to the stand, first adjust the carriage to a higher

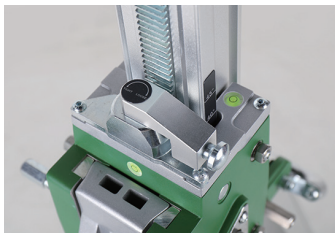
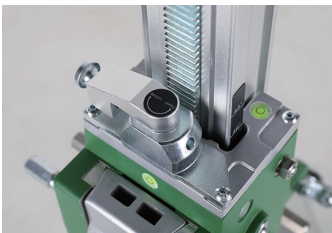


position for easier motor mounting. When finish adjusting, using the tool-free lever lock to lock the carriage to the desired position.

5.1.9 When mounting a 4-bolt rig-mounted type motor, to drill stand DSP-252 first use 4 bolts to mount the mounting spacer to the motor. There is a 10x10x100mm key on the mounting plate which can transmit the torque of the motor. Then put the mounting plate with dovetail into the cradle. Tighten the cradle lock bolt until the plate is secured in cradle.

5.1.10 When adjust the cradle lock bolt to clamp the mounting spacer, the lock bolt should be fully tightened. When to remove the mounting spacer, the lock bolt should be fully loosened as well.

5.1.11 The tool-free carriage lever lock is on the top of the carriage. It can prevent the carriage



from slamming down causing possible injury or damage to the bit or machine. Pull the latch self-locking shaft to drive the locking tooth knob to the icon unlock position and release the self-locking shaft to unlock. Then move the crank up or down to the desired position and turn the self-locking shaft 180° according to the icon to release the self-locking shaft to lock.

Once in place, unlock the latch to begin operation.

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 Quick-release bit remove tool is optional for easy removal of the drill bit.



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: DSP-162 and DSP-252 conform with following standards or standardization documents: in accordance to the regulations of Machinery Directive 2006/42/EC.