

## OPERATORS MANUAL

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DIAMOND DRILLING DRILL STANDS  
QDS-150  
QDS-350  
QDS-500  
QDS-800

# TECHNICAL DATA

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Model	QDS-150 Model	QDS-350 Model
Capacity w/o extension spacers (mm)	150Ø	350Ø
Max. Capacity with extension spacers (mm)	N/A	N/A
Effective Stroke (mm)	540	660
Dimensions L x W x H (mm)	330 x 200 x 815	425 x 245 x 1005
Net Weight(kg)	8.8	18
Add on : Other Rig Heights	N/A	N/A

1. Column
2. Clamp Bolt
3. Crank Handle  
(Mounts on either side and also doubles as a wrench for the Angle Lock Clamp Bolt)
4. Guidance Roller
5. Buttress Bar
6. Base
7. Leveling Bolts
8. Cradle
9. Cradle Lock Bolt
10. Adjustable Roller Axle Bolts (on left side only)
11. Carriage Lock Lever

**QDS-150 MODEL**



**QDS-350 MODEL**



## 60MM CLAMP BRACKET

OPTIONAL FOR QDS-350, QDS-500 & QDS-800



60mm clamp bracket for mounting hand-held drilling motors. Bolts directly to the standard mounting spacer.

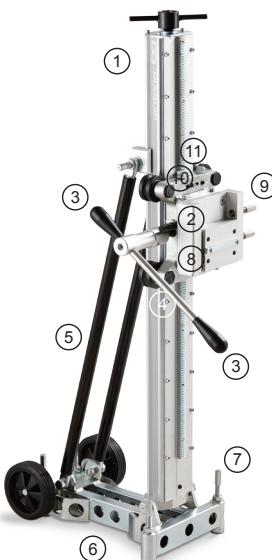
# TECHNICAL DATA

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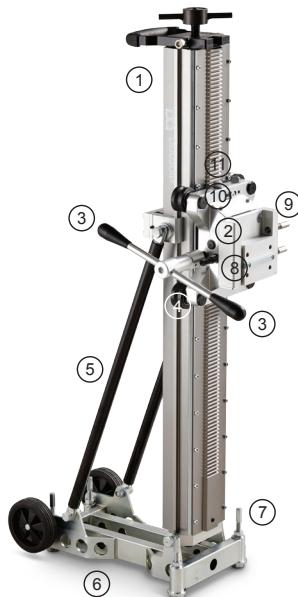
Model	QDS-500 Model	QDS-800 Model
Capacity w/o extension spacers (mm)	300Ø	400Ø
Max. Capacity with extension spacers (mm)	100mm spacer = 500Ø 200mm spacer = 800Ø	100mm spacer = 600Ø 200mm spacer = 800Ø
Effective Stroke (mm)	690 - 1m mast option 1390 - 1.6m mast option	760 - 1m mast option 1760 - 2m mast option 2260 - 2.5m mast option
Dimensions L x W x H (mm)	425 x 245 x 1005	555 x 275 x 1035
Net Weight(kg)	18 - 1m mast option	26.5 - 1m mast option
Add on : Other Rig Heights	1.6m Column (1390mm stroke)	2m Column (1760mm stroke) 2.5m Column (2260mm stroke)

1. Column
2. Clamp Bolt
3. Crank Handle  
(Mounts on either side and also doubles as a wrench for the Angle Lock Clamp Bolt)
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11. Carriage Lock Lever

### QDS-500 MODEL



### QDS-800 MODEL



## EXTENSION SPACERS

OPTIONAL FOR QDS-500 & QDS 800



# INTRODUCTION:

**ORIGINAL INSTRUCTIONS:** For your personal safety, read and understand before using.  
Save these instructions for future reference

This drill stand is designed to mount diamond core drilling motors by using a suitable mounting spacer. A standard 4 bolt mounting spacer is included with this stand. The drill stand guides the motor and diamond core bit so that it is possible to drill perfectly straight cuts in a safe and controlled manner.

The stand is also able to slant so that holes may be cored at an angle as required.  
This stand must be securely fastened to the workpiece using a concrete anchor.

**WARNING: Do not attempt to use this stand if the mounting system does not fit perfectly to the drilling motor.**

## MOUNTING THE MOTOR TO THE DRILL STAND

### Rig-Mounted Type Motors:

If the drill motor is the 4 bolt rig-mounted type, the drill stand's mounting spacer must be bolted to the drill motor. The mounting tenon must fit securely in the slot in the back of the drill motor, then evenly tighten the four bolts. This mounting spacer now acts as a secure and accurate coupling between the drill motor and the drill stand. The mounting spacer now fits in the dovetail in the stand's cradle and is secured by the cradle lock bolt.

### Hand-Held Type Motors:

If the drill motor is the hand-held type, the clamp bracket must be used. The clamp bracket must first be bolted to the mounting spacer. Then the motor's gearcase collar must be mounted in the clamp bracket. Generally, the drill motor's side handle will need to be first removed. To insert, first loosen the clamp bracket using the crank handle as a wrench, then insert the motor, turn to the desired orientation and then securely fasten the clamp bolt.

Now the assembly may be fitted into the dovetail in the stand's cradle and the cradle lock bolt securely tightened.

# EXTENSION SPACERS

For larger diameter core bits, extension spacers are required to maintain clearance between the bit and the stand. Extension spacers in sizes 45, 100, 150 and 200mm are optionally available. These may also be stacked together as needed to achieve the required distance.

These mount to the cradle using two bolts and both bolts must be securely tightened. The motor unit in turn mounts to the spacer

**WARNING:** Always ensure that all mounting fasteners are securely tightened.

**WARNING:** Never attempt to drill unless the stand is fixed securely beyond any doubt.



# DRILLING STAND FUNCTIONAL DESCRIPTION

## Fastening the drill rig

Once the desired position of the rig is determined, Use a concrete anchor to secure the rig.

Drill a suitable sized hole for the anchor with a hammer drill.

Drive in the anchor.

Use a long threaded rod with a large washer and nut to secure the base.

Before fully tightening the nut, use a spirit level to check if the stand is level. If needed, loosen the locknuts and adjust the four leveling bolts to achieve levelness. Then retighten the locknuts.

Now fully tighten the securing nut which affixes the base to the work surface.

**NOTE:** We recommend using the optional Anchoring Plate for the most secure possible fixing of the base to the workpiece. Place the anchoring plate on the base with the threaded rod through the hole. Then add the washer and nut. Tighten securely. (QDS-500 & QDS-800 only).

**Note:** If mounting on a wall, it is usually more convenient to secure the stand with the motor head removed. Using the 19mm combination wrench, loosen the cradle lock bolt on the carriage to lift the motor head up and away. Once the stand is fixed, the motor head may be re-installed on the stand. Be sure to securely tighten the cradle lock bolt(s).

**Note:** If additional security is needed, use the jackscrew with an appropriate length bracing column between the opposite wall or ceiling dependent on where the rig is situated. Be sure to risk assess the surrounding wall/ ceiling construction before using this method of anchoring the rig.

## ADJUSTING THE DRILLING ANGLE

The drilling angle can be tilted from 0 to 45 degrees. To adjust the angle, use the crank handle as a wrench and loosen the angle clamp bolt. Refer to the scale on the column indicating the angle. Adjust to the desired angle and tighten the clamp.

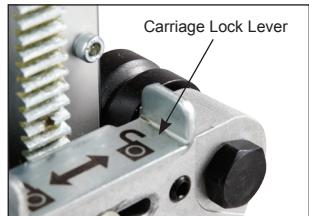
**CAUTION:** Do not overtighten the clamp. Only tighten the necessary amount to make the clamp secure. Overtightening could distort the column.



# CARRIAGE LOCK

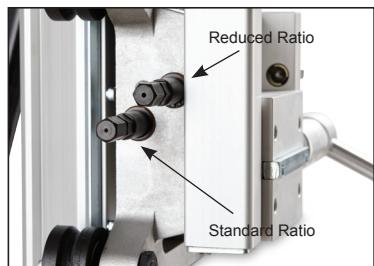
Slide the carriage lock lever to the left to lock the carriage in place. Slide the lever to the right to release the carriage. On some models, the carriage lock is a thumb screw on the right side of the carriage. Tighten to lock, loosen to release.

**CAUTION: Hold the crank lever or motor head whenever releasing the carriage lock. It could slam down causing possible injury or damage to the bit or machine.**



## REDUCTION GEARING

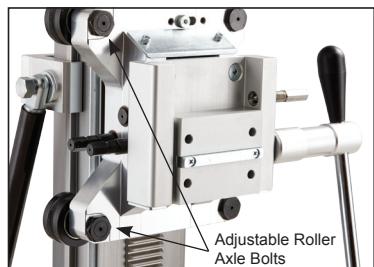
**On the larger size stands, QDS-500, QDS-800, there are two crank spindles:** one for standard cranking and one for reduced gear ratio cranking. The reduced gear ratio allows the operator to drill with greatly reduced effort when using large diameter core bits. To switch from standard to reduced gear ratio cranking, simply remove the crank handle from the main spindle and connect to the forward spindle on the left side.



## ADJUSTING THE DRILLING STAND GUIDANCE

Loose guidance will cause the bit to run out-of-true and result in poor performance, sticking and possible damage to the bit. If the rollers can be turned by hand with the carriage locked, they are too loose.

To adjust the guidance, the two guide rollers on the left side are on eccentric shafts. Turn the eccentric roller axle bolt until the clearance is taken up on each roller in turn. Turn just enough so that the roller cannot be turned by hand. 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.



## NOTES

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## **APPROVED SERVICE CENTRE;**

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**DIAQUIP HEAD OFFICE | MANCHESTER, UK**

- 0161 406 0609
- ✉ SALES@DIAQUIP.CO.UK
- 🌐 WWW.DIAQUIP.CO.UK

