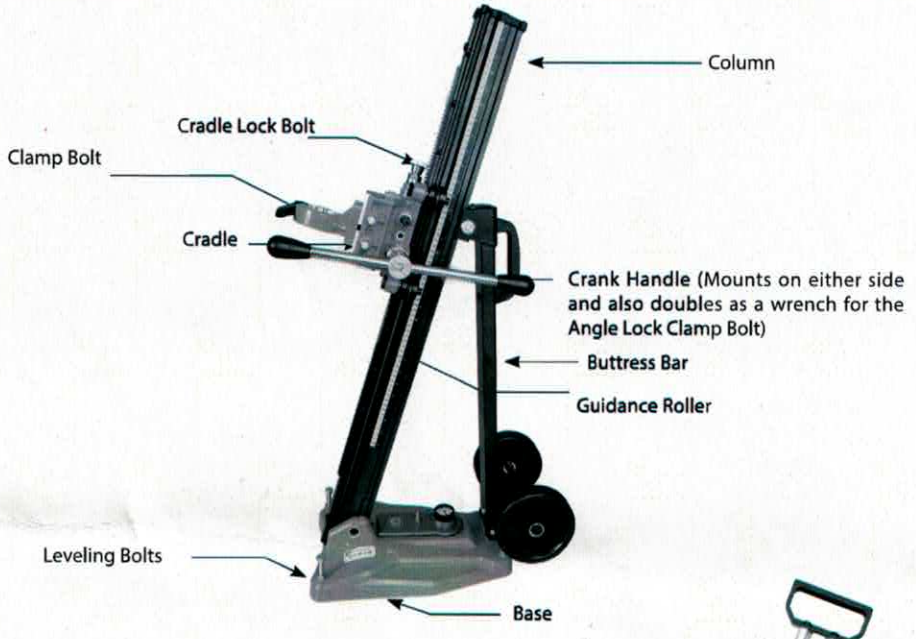
INSTRUCTION MANUAL

ORIGINAL INSTRUCTIONS
For your personal safety,
READ and UNDERSTAND before using.
SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

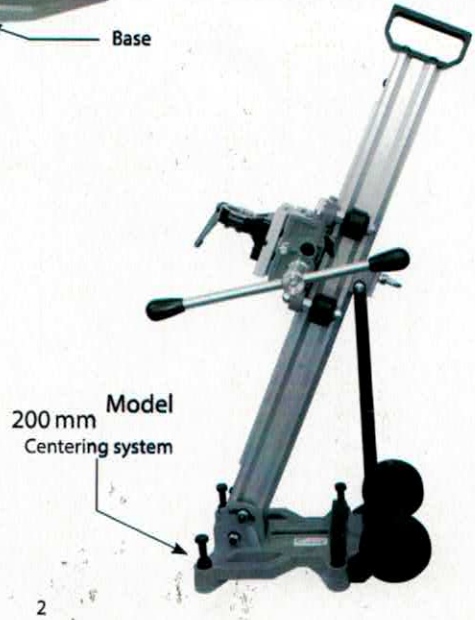
BAYER

CORE DRILL STANDS

	650mm Model	200mm Model
Capacity w/o extension spacers (mm)	Ø 350	Ø 350
Max. Capacity with extension spacers (mm)	Ø 650	Ø 200
Effective Stroke(mm)	760	690
Dimensions L x W x H (mm)	550 x 340x 1120	450 x 300x 950
Net Weight(kg)	18	14.5



650mm Model



200 mm Model

Centering system

Bayer Core Drill Stand

Introduction:

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 is standard on small series drill stands and is an optional accessory on the larger series drill stands). 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.

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: 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. Make sure to securely tighten the cradle lock bolt(s).

Note: If additional security is needed, use the jackscrew with an appropriate length bracing column.

WARNING: Always ensure that all mounting fasteners are securely tightened.
WARNING: Never attempt to drill unless the stand is fixed securely beyond any doubt.

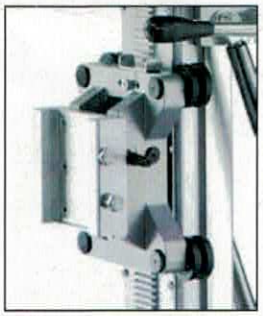
ADJUSTING THE DRILLING ANGLE

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.

REDUCTION GEARING

On the larger size stands, 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.