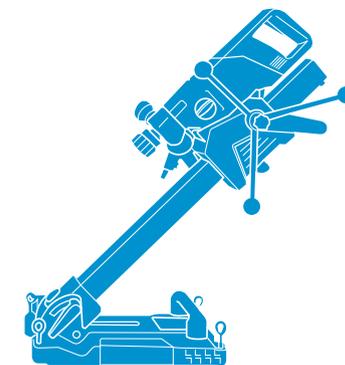


HSS Hire



Diamond Drill & Drill Stand

Ideal for hand-guided or stand mounted wet and dry drilling



Code 01132 01135

EQUIPMENT CARE

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease and speed, assume you have the wrong equipment for the job. Contact HSS Hire for advice.

Handle the equipment with care. Avoid dropping it, knocking it, or otherwise exposing it to damage.
Never expose the equipment to dangerous and/or corrosive chemicals.

Keep the equipment clean - you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

When not in use, store the equipment somewhere clean, dry and secure.

FINISHING OFF

Switch OFF both the tool and its power supply before unplugging it and neatly coiling its flex.

If necessary remove from the drill stand and disconnect water supply and extraction equipment.

Pull the core bit out of the hole.

Ensure stability of the drill stand by **lowering the tool and core bit to the baseplate.**

Give the unit a final clean up ready for return, to HSS Hire.



... have you been trained

The law requires that personnel using this type of equipment in the workplace must be competent and qualified to do so. Training is available at HSS Training 0845 766 7799

...any comments?

If you have any suggestions to enable us to improve the information within this guide please e-mail your comments or write to the Safety Guide Manager at the address below e-mail: safety@hss.com

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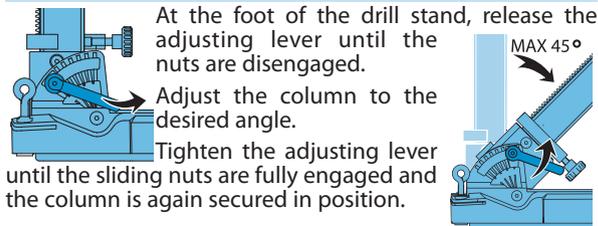
Web Site: <http://www.hss.com>

ADJUSTING THE DRILL STAND DRILLING ANGLE

CAUTION!

There is a risk of crushing the fingers in the pivot mechanism.

WEAR PROTECTIVE GLOVES.



At the foot of the drill stand, release the adjusting lever until the nuts are disengaged.

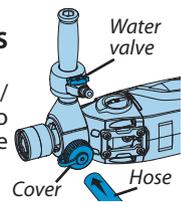
Adjust the column to the desired angle.

Tighten the adjusting lever until the sliding nuts are fully engaged and the column is again secured in position.

CONNECTING THE VACUUM SYSTEM

A vacuum pump is available from HSS Hire.

Unscrew the cover from the water swivel / suction head. Push the suction hose into the suction hose connector and close the water valve on the side handle.



FITTING THE WATER CONNECTION

Regularly check the hoses for damage and make sure that the maximum permissible water supply pressure of 6 bar is not exceeded.

Make sure that the hose doesn't come into contact with rotating parts.

Make sure that the hose is not pinched and damaged as the carriage advances. Also the water temperature should not exceed 40°C.

Check the water supply system to ensure there are no leaks.

Close the cover on the water swivel / suction head. Connect the water regulator to the drill. Connect the water supply (hose coupling).



FITTING AND REMOVING THE DIAMOND CORE BIT

Disconnect the supply cord plug from the power outlet.

CAUTION!

The core bit may become hot during use or during sharpening. There is a risk of burning your hands.

WEAR PROTECTIVE GLOVES.

Engage the carriage locking system with the channel and check that the channel is securely fastened.

Open the chuck by turning it in the direction of the open brackets symbol.

To insert diamond core bit, push it into the chuck from below, turning the core bit until the teeth in the chuck engage with the core bit. To remove it pull the sleeve on the chuck in the direction of the arrow towards the machine. This releases the core bit.

Close the chuck by turning it in the direction of the closed brackets symbol.

If you fitted the diamond core bit, check it is securely mounted in the chuck by pulling on the core bit and attempting to move it from side to side.

REMOVE THE MACHINE FROM THE DRILL STAND

Before removing the machine from the drill stand make sure it is disconnected from the electric supply.

The carriage must be locked in position.

Close the water valve on the side handle then disconnect the water supply. Next remove the switch locking device from the grip. Use the hand wheel to release the locking pin (turn counterclockwise). Pull the locking pin out of the slot. Now you can pivot the machine away from the drill stand.

BASIC TECHNIQUES

SELECT DRILLING GEAR

Before drilling select the drilling speed (drill gear).

Do not operate the gear selector while the tool is running. You can change the drilling speed during your work only when the drilling rotation has stopped.

To select the gear make sure you do it **in accordance with the table on the tool.** Move the gear selector to the desired setting while rotating the core bit.

HAND-HELD USE		
	diameter (mm)	gear
Wet	121 - 131	I
	41 - 111	II
	8 - 36	III
Dry	122 - 162	I
	67 - 112	II
	37 - 62	III
DRILL-STAND USE		
	diameter (mm)	gear
Wet	102 - 162	I
	28 - 87	II
	12 - 25	III

DRILLING

For **dry drilling** press the ON / OFF switch on the tool to begin drilling. When drilling is complete switch the tool OFF and remove the core if necessary. **When removing core bit be careful it may get very hot. Wear protective gloves.**

NOTE: If a considerable quantity of dust collects in the core bit this can cause the core bit to run out of balance. Remove the dust from the core bit.

When using dust removal **always lead the vacuum cleaner hose away to the rear of the machine so that it cannot come into contact with the core bit.**

NOTE: Avoid electrostatic effects by using an anti-static vacuum cleaner.

DANGER!

HOLD POWER TOOL BY INSULATED GRIPPING SURFACES, WHEN PERFORMING AN OPERATION WHERE THE CUTTING ACCESSORY MAY CONTACT HIDDEN WIRING.

CUTTING ACCESSORY CONTACTING A "LIVE" WIRE MAY MAKE EXPOSED METAL PARTS OF THE POWER TOOL "LIVE" AND COULD GIVE THE OPERATOR AN ELECTRIC SHOCK.

WARNING

If the power tool starts without pressing the on/off switch when the supply cord is plugged back in after unplugging, the unit must be returned to HSS Hire.

For **hand held wet drilling** first connect the water supply. Press the ON / OFF switch. Start making a hole, with tool at a slight angle to the work surface. This makes hole-starting easier. Once the hole has been started, bring the tool into the 90° position and continue drilling.

When drilling is complete switch the tool off and close the water valve on the side handle.

If **wet drilling** is required with a **drill stand** mount the tool on the stand and connect water supply then open the water valve at the side handle slowly until the desired volume of water flows. Use the switch locking device to switch the machine on for sustained operation. The drilling performance indicator lights orange.

Release the carriage locking mechanism. Turn the hand wheel until the core bit is in contact with the surface.

Apply only slight pressure to the core bit when beginning drilling and then increase pressure once the core bit has become centred.

Keep an eye on the overload indicator while drilling. (Located on handle) The drilling performance indicator lights orange after switching on. Optimum drilling performance is achieved when the drilling performance indicator shows a green light. If the drilling performance indicator shows a red light, reduce the pressure applied to the core bit.

CAUTION!

When drilling overhead, any water remaining in the core bit must not be allowed to run down over the tool.

WARNING

When drilling through walls, cover the area behind the wall, as material or the core may fall out on the other side of the wall.

When drilling through ceilings, secure (cover) the area below as drilled material or the core may drop out and fall down.

TECHNICAL SPECIFICATIONS

Nominal voltage:	110V
Nominal power:	2200W
Nominal current:	16A
Frequency:	50/60Hz
Nominal no-load speed:	1 ST gear: 780 r.p.m. 2 ND gear: 1520 r.p.m. 3 RD gear: 2850 r.p.m. (Change gear only when rotation has stopped.)
Max. permissible water supply pressure:	6 bar
Dimensions (LxWxH):	515x129x159 mm
Drill stand dimensions (L x W x H):	610x250x952 mm
Weight (basic tool):	approx. 8.2 kg
Weight of stand with combination base plate and carriage:	approx. 13.3 kg
Protection class:	Protection class I (earthed)
Drilling depth:	max. 430 mm (730 mm with extension)

GENERAL SAFETY

For advice on the safety and suitability of this equipment contact HSS Hire.

There is a serious risk of personal injury if you do not follow all instructions laid down in this guide.

The hirer has a responsibility to ensure that all necessary risk assessments have been completed prior to the use of this equipment.

This equipment should only be used by an operator who has been deemed competent to do so by his/her employer.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area. Cordon off a NO GO area using cones and either barriers or tape, available for hire from HSS Hire.

 Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

 Safety goggles MUST be worn by everyone in the work area.

 This equipment generates potentially harmful noise levels. To comply with health and safety at work regulations, ear defenders must be worn by everyone in the vicinity.

 Some materials when cut contain substances which, when inhaled, can be harmful to health. A suitable mask must be worn when using this equipment. Respiratory protective equipment is available for hire, contact HSS Hire for details.

 Wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

Ensure the work area is well lit and ventilated, if in doubt, ask about lighting and ventilation equipment at HSS Hire.

Do not work near flammable gases or liquids, petrol or paint thinner fumes for example. Keep combustible materials at a safe distance – at least 5m.

Do not expose the tool to rain or snow and do not use it in damp or wet areas or where there is a risk of fire or explosion.

Do not work from a ladder or steps.

Do not operate the tool when it is dirty or wet. Dust or dampness on the surface of the tool make it more difficult to hold and, under unfavourable conditions, may lead to electric shocks.

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Never use the tool if its ventilation slots are blocked.

Always use a vice or clamp to secure loose workpieces.

The tool may be operated only when held in both hands or when mounted on the drill stand.

Always use the side handle for hand-held operation.

Keep the grips dry, clean and free from oil and grease.

Make sure you know how to switch this machine OFF before you switch it on in case you get into difficulty.

Some parts get very hot so switch off and allow to cool before touching them.

WARNING

NEVER drill into materials hazardous to the health (e.g. asbestos)

NEVER drill into materials that produce electrically conductive dust (e.g. magnesium)

Do not touch rotating parts.

Never leave the tool unsupervised.

Do not try to repair or modify the equipment. If this tool can't do what you expect or fails to work return to HSS Hire.

ELECTRICAL SAFETY

The HSS Diamond Drill plugs into a 110V 16amp power socket, so it must be provided with a suitable 110V generated power supply, or powered from the mains via a suitable 110V transformer.

When necessary use only extension cords of a type approved for the application and with conductors of adequate cross section. The power tool may otherwise lose performance and the extension cord may overheat. Check the extension cord at regular intervals. If shows any signs of damage replace immediately.

When the equipment needs extension cord it is recommended to use minimum 2.5 mm² cross section cord.

If the equipment fails, or if its power supply cable or plug becomes damaged, return it. Never try to repair it yourself.

Keep cables out of harm's way, and clear of the work area.

Extension leads should be fully unwound and loosely coiled, away from the equipment. Never run them through water, over sharp edges or where they could trip someone.

Always remove the plug from the current socket before undertaking any type of intervention on the HSS Diamond Drill or if it is left unattended or within children or people's reach not quite conscious of their own actions.

Always before removing the plug, switch off the machine.

Always when unplugging pull the plug, not the supply.

Ensure the machine and power socket are switched OFF before plugging into the power supply.

 To reduce the risk of electric shock, always use a suitable RCD (Residual Current-Operated Device) available from HSS Hire.

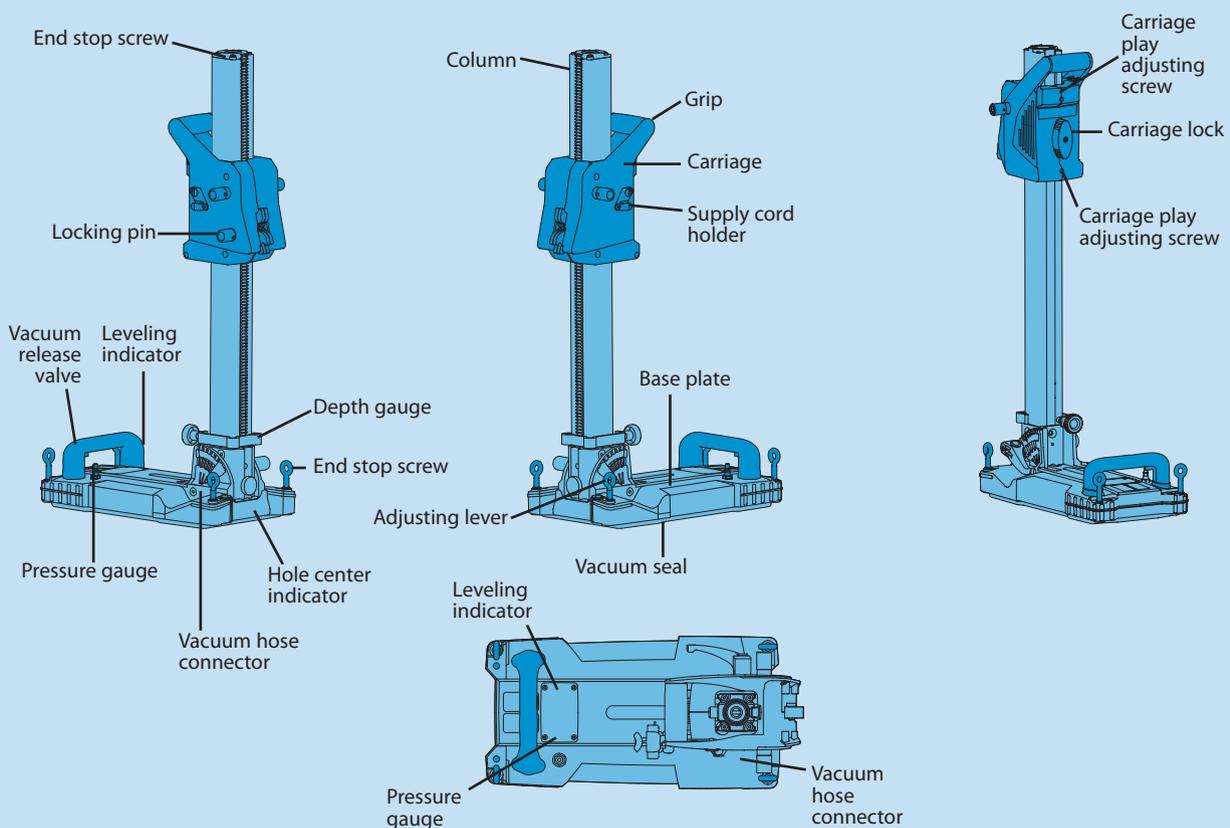
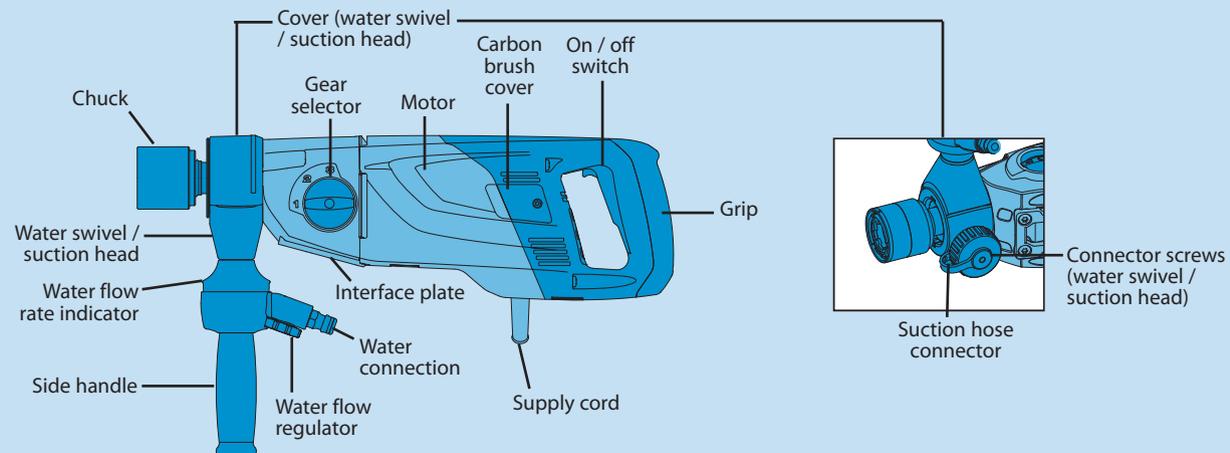
Never carry or pull the tool by its flex.

Do not keep your finger on the on / off switch while carrying the tool when connected to the mains supply.

Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

Do not touch the supply cord in the event of it becoming damaged while working. Disconnect the supply cord plug from the socket.

IDENTIFIER



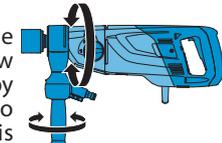
GETTING STARTED

Never use the HSS Diamond Drill until you have fully read and understood this User Guide and the machine has been properly set up using the information it contains.

Before using the tool check its condition including the supply cord and extension cord as well as the plug connections. Do not operate the tool if damage is found, if the tool is not complete or if its controls cannot be operated faultlessly. Return the drill to HSS Hire.

Prepare the tool, by fitting the side handle to desired position.

Release the side handle. Pivot the side handle into the desired position. Now tighten the side handle securely by turning its grip. Finally check to ensure that the side handle is tightened securely.



PREPARING MOUNTING DEVICE

Make sure all the parts of the stand are assembled correctly before attaching the machine. In order to avoid the risk of collapse, it is important that the parts are assembled correctly.

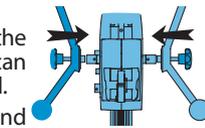
Adjust the depth gauge by setting it to desired depth. Secure the depth gauge by tightening the clamping screw.

The drill stand must be adequately secured to the working surface with an anchor or vacuum base plate.

Overhead drilling with the drill stand attached only by vacuum is not permissible. You must use an additional suitable anchor.

To make your work more comfortable the HSS Drill Stand has hand wheel that can be fitted on either side of the drill stand.

Fit the hand wheel onto the axle and then secure the hand wheel.



MOUNTING THE MACHINE ON THE DRILL STAND

The locking pins on the drill stand must be in the open position and the carriage should be at the top of the column. The carriage must be locked in position.

Use the hand wheel to release the locking pin (turn counterclockwise) and then pull the locking pin out.

Engage the interface plate on the machine with the hooks on the drill stand. Push the locking pin in and use the hand wheel to tighten it securely (turn clockwise).

Insert the switch locking device in the grip. The switch locking device can be used to lock the on/off switch in the "on" position for sustained operation. Now close the water valve on the side handle and then connect the water supply.

