

STRAIGHTNESS OF CUT AND CONTROL WHEEL

The **cut is affected by many factors**, e.g. the size of the pipe, the material, the wall thickness, the quality of the pipe's surface, the roundness, welded seams, blade condition, feed rate, operator's experience. For this reason the result may vary, and the **cut may turn to left or right** (misalignment of the cut's starting and ending point).

The pipe saw **gripper has one adjustable wheel** which can be used for **improving the quality** of the cut and for reducing the misalignment.

The adjustment applies only to the actual pipe size and material, and the **wheel may have to be readjusted as the blade is worn**.

The wheel can be **adjusted in 9 positions**; mid position and 4 steps to left and right. **To adjust the wheel, loosen the locking screw and turn the wheel center clockwise or counterclockwise** to the desired position, and **lock the wheel again**.

If the blade has wandered too much to the right, adjust wheel center clockwise. If the misalignment is to the left, adjust counterclockwise.

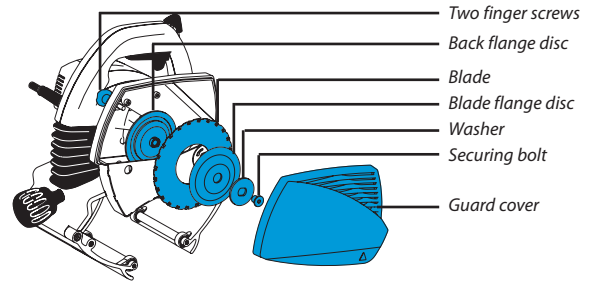
The number of steps depend on the actual misalignment. Remember to lubricate the adjusting wheel at regular intervals.

AFTER CUTTING IS COMPLETE

When the pipe is cut off, **push the UNLOCK button forward** until the yellow mark is visible and the locking is released. Now **raise the motor unit** to starting position. **Release the power switch**. When the blade is stationary, **remove the pipe saw from the pipe** by loosening the gripped handle. Ensure that the moving lower **blade-guard is lowered into safety position**.

CHANGING THE SAW BLADE

Remove the power plug from the socket. Check that the motor unit is **locked in the upper position**.



Remove the blade guard cover by opening the two finger screws. **Press the spindle-lock button and simultaneously rotate the blade** by hand until the spindle-lock button drops a further distance of about 7 mm. Now the rotation of the blade is prevented. Use the **blade key** to open the **blade attachment bolt**. **Remove the securing bolt, the washer, the blade flange disc, and the blade**.



Before installing a new blade, **check that both blade flange discs are clean**. Place a new or **sharpened blade on the back flange disc**, so that the marked side of the blade is facing outwards and the arrows on the blade are facing in the same direction as the rotation direction markings on the inside of the blade case.

Ensure that the **new blade goes right to the bottom in the back flange disc**. **Put the blade flange disc, the washer, and the securing bolt back in place**. **Press the spindle lock button and tighten the blade securing bolt**. Put the **blade guard cover back in place** and **tighten the finger bolts**.

PRE-OPERATION CHECKLIST

- ENSURE THAT THE PIPE TO BE CUT IS EMPTY. ☐
- ENSURE THAT THE BLADE IS CORRECTLY INSTALLED. ☐
- ENSURE THAT THE DIAMETER AND THICKNESS OF THE BLADE ARE SUITABLE FOR THE PIPE SAW AND THAT THE BLADE IS SUITABLE FOR THE RPM-RANGE OF THE MACHINE. ☐
- CHECK THE ATTACHMENTS OF THE BLADE GUARDS. ☐
- ENSURE THAT THE MOTOR UNIT IS IN THE UPRIGHT POSITION. THE YELLOW MARK OF THE UNLOCK BUTTON IS VISIBLE. ☐
- ENSURE THE PIPE SAW GUIDE WHEELS ROTATE. ☐
- ENSURE THE SUPPORT WHEELS ROTATE. ☐
- CHECK THE OPERATION OF THE LOWER BLADE GUARD. ☐
- ENSURE THE LOWER BLADE GUARD AND ENTIRE PIPE SAW ARE CLEAN ☐
- ALWAYS FOLLOW THE SAFETY AND OPERATING INSTRUCTIONS AND CURRENT REGULATIONS. ☐

EQUIPMENT SPECIFICATION

Voltage:	110V / 50 Hz
Power:	1100 W
Speed when unloaded:	4000 rpm
Blade diameter:	140 mm
Blade attachment hole:	62 mm
Weight:	8,9 kg
Max. pipe wall thickness:	steel 8mm / plastics: 12mm

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 tool for the job. Contact your local HSS Hire for advice.

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.

When not in use, **store the equipment somewhere clean, dry and safe** from thieves and unauthorised users.

FINISHING OFF

Wait for the cutting wheel to stop rotating. Disconnect from the mains power supply. If the saw is not to be used again, **remove the cutting blade. Collect all parts together and give them a final clean up ready for return**, to your local HSS Hire.



... have you been trained

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

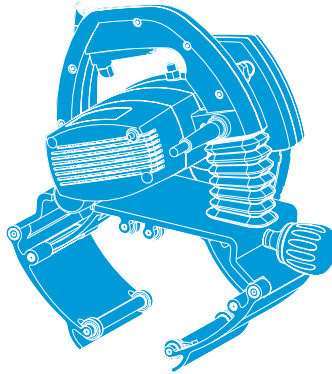
...any comments?

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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Group Office: 25 Willow Lane, Mitcham, Surrey CR4 4TS

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



Universal Pipe Cutter

Ideal for onsite pipework with its self guiding cutting system.



GENERAL SAFETY



For advice on the safety and suitability of this equipment contact your local 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 is designed to 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 your local 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 your local HSS Hire for details.

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

Pay attention to where you are working.

Never use it in wet or damp areas.

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

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

Never leave the unit running and unattended. Always switch the engine off and wait for moving parts to come to rest before making adjustments to it.

Avoid coming into contact with objects that conduct electricity, such as pipe systems, heating radiators, cookers, washing machines, and refrigerators.

Never use excessive force when using the pipe saw. Never use sideways force to stop the blade, always allow the blade to stop freely.

Make sure that everyone is warned of what you are doing.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Hire.

Check the cutting blade does not show signs of damage. A damaged cutting blade can cause personal injury.

Always ensure you have a safe and stable working position.

Do not use the machine unless you are able to call for help in the event of an accident.

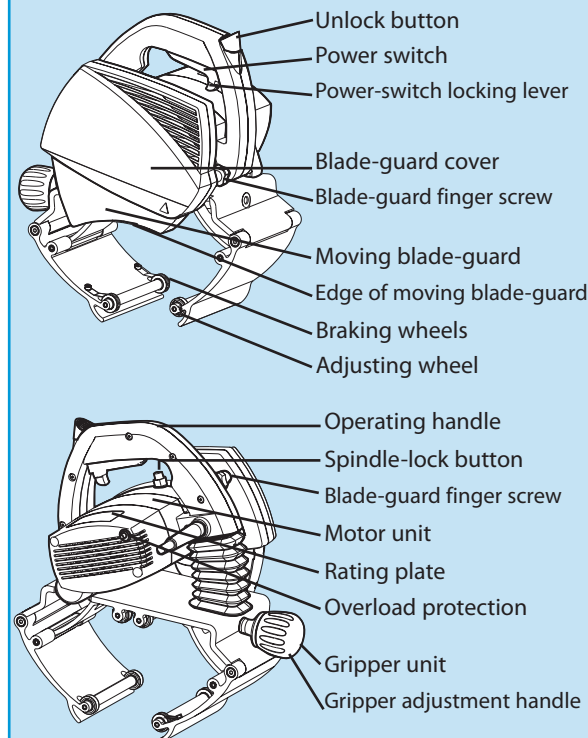
Never use a machine that is faulty or incomplete.

Always follow the safety and operating instructions and current regulations.

WARNING!

Under no circumstances should you modify the original design of the machine. Unauthorised modifications and/or accessories may lead to serious injury or death to the user or others.

IDENTIFIER



GETTING STARTED

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

Universal Pipe Cutter can only be used to cut round pipes, with a diameter of 15-200 mm and a maximum wall thickness of 8mm with steel and 12mm with plastics.

Universal Pipe Cutter can be used to cut all normal pipe materials, such as steel, stainless steel, cast iron, copper, aluminium, and plastic depending on blade fitted. It is intended for short, intermittent use. The machine may be loaded for 2.5 minutes during a 10-minute period. The machine is not intended for use in industrial production.

Before using the Universal Pipe Cutter refer to Pre-operation Checklist

BASIC TECHNIQUES

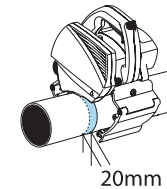
BEFORE CUTTING

Connect to the mains power supply, but before you do it make sure that the mains voltage is the same as indicated on the rating plate.

Precise setting of the cutting point.

When you mark the cutting point on the pipe to be cut, deduct 20 mm from the required dimension.

Use the system supports when cutting pipes. This will ensure safe working and optimum result. Work on flat underground. Place the pipe on two supports so that the cutting point is between the supports. Place two more support under both ends of the pipe.



Check that all support wheel contact the pipe (adjust if required e.g. with pieces of lumber).

When cutting short pipes (25cm or less) place the

supports so that the cutting point is outside the supports. Support the pipe with your leg, if required. Proper arrangements will prevent the blade from jamming as the pipe is cut through.

Attach the pipe saw to the pipe. To do it open the pipe saw's gripper unit enough to suit the diameter of the pipe by rotating the adjustment handle located at the rear of the saw.

Position the pipe saw on top of the pipe so that the edge of the lower blade guard is at the cutting mark. Fasten the pipe saw to the pipe by turning the gripper adjustment handle until the gripper grips firmly the pipe to be cut. Hold the pipe in place and ensure that pipe saw moves freely in the direction the pipe is fed. For sake of safety ensure the pipe saw leads are to the left of the pipe saw. The pipe saw is now ready for cutting.

CUTTING PROCESS

Pierce the pipe wall. Grip the gripper firmly with your right hand and place your left foot on top of the pipe approximately 50cm from the pipe saw.

Turn the saw until it leans slightly forward. When starting the motor, first of all release the power-switch locking lever and push the power switch all the way down.

Before starting to saw, wait until the blade reaches full speed. Pierce the pipe wall by pressing pipe saw operating handle downwards slowly and evenly until the blade has cut through the pipe wall (at this stage the pipe must not rotate) and the motor unit is locked in the sawing position.

Look at the UNLOCK button during the piercing operation. When UNLOCK button is locked, i.e. the yellow mark disappears, pipe saw is locked in the sawing position, and you can safely start sawing around the pipe.

Start sawing by feeding the pipe saw forward and fix the pipe with your left foot. After that release the pipe (remove your left foot from the pipe) and turn the pipe saw backwards, whereby the pipe will also be rotated backwards.

Start a new feeding movement, and feed continuously forward ca. 1/6 of the pipe's circumference. Repeat until the pipe is cut off.

NOTE: Select the sawing speed as per the material and the thickness of the wall. Too high speed can damage the blade, overload the pipe saw and give a poor sawing result.

NOTE: Should there be problems during piercing or sawing, abnormal sounds or vibrations due to which you have to interrupt sawing before the pipe is cut through, release the blade by pushing the UNLOCK button forward until the UNLOCK button is released, and lift the motor unit up. Once the problem is cleared, start sawing again.

WARNING!

Never start the motor, when the motor unit is locked in sawing position or teeth of the blade contact the pipe to be sawn.

OVERLOAD PROTECTION

The pipe saw is equipped with overload protection. When the blade is dull or the speed is too high, the overload protection cuts power automatically. Restore the power by pushing the overload protection switch.

