

# Safety recommendations for the use of diamond saws

## Never

- Permit untrained people to handle, store, mount or use diamond saws
- Mount or remove a diamond saw until the machine has been isolated from its power source
- Mount a diamond saw that cannot be identified or one which does not bear the correct marking
- Mount a diamond saw on a machine running at a speed higher than the maximum operating speed of the diamond saw or mount on a machine which does not bear its spindle speed
- Use diamond saws for cutting metal unless specifically designed to do so
- Mount a diamond saw that has been dropped, damaged or incorrectly stored
- Apply force to fit the diamond saw on the mounting device, fit diamond saws with oversized bores or alter the bore size
- Use drive pins or blotters to prevent slippage on hand-held diamond saws
- Tighten flanges with excessive force or use a hammer or extension
- Use damaged, distorted or dirty flanges and fastening screws
- Use a machine which is not in good condition or one with a damaged guard
- Turn on the machine until the wheel guard has been re-fitted, secured and adjusted correctly
- Stand in the line of the diamond saw when starting the motor after fitting or re-fitting a diamond saw
- Start the diamond saw in contact with the workpiece or any other object
- Work from a ladder or in a position where you do not have full control of the machine
- Force the diamond saw to cut or allow it to overheat
- Try to cut curves, turn in the cut or grind with a diamond saw
- Allow the diamond saw to bounce or be trapped or pinched in the cut
- Press against the diamond saw surface to stop it or put down a machine until the diamond saw has stopped running
- Leave the coolant running on a stationary diamond saw or leave the diamond saw running on an unattended machine
- Re-tip diamond saws which are not suitable for this
- Use diamond saws for dry cutting on hand-held machines, unless specifically authorised

## Always

- Observe the safety recommendations of the machine and diamond saw manufacturer
- Exercise care when handling diamond saws
- Keep the working area well lit, clean and tidy. Avoid slippery and uneven floors and ice or snow
- Ensure other workers in the vicinity and passers-by are protected from sparks and debris
- Store diamond saws on a full, flat surface, hung on a peg or in suitably constructed racks. Lightly lubricate to prevent rusting
- Visually check the diamond saw for damage such as core cracks and missing or deformed segments
- Check that the diamond saw is suitable for the application and that the markings are intact and legible
- Use the correct tools at all times when mounting or removing a diamond saw
- Observe direction of run markings
- Ensure mounting flanges are in matched pairs, clean, free from burrs and undistorted
- Ensure an adequate coolant supply to both sides of the diamond saw if cutting wet
- Ensure that the workpiece is secure and cannot move whilst being cut
- Ensure guards are in position and correctly adjusted so that they do not foul the diamond saw
- Rotate the diamond saw manually to ensure that it runs true and freely before turning on the power
- Wear suitable protective clothing
- Observe the operating speed recommended by the diamond saw or machine manufacturer
- Run the diamond saw for at least 30 seconds at maximum operating speed after mounting or re-mounting diamond saws
- Ensure the diamond saw is running true and without vibration. Check frequently for undercutting or loss of tension
- Allow the diamond saw to come to rest naturally after turning off the machine
- Ensure machine spindle speed is checked periodically using a tachometer
- Ensure that the diamond saw is removed before transporting or storing portable and mobile machines

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