

Safe Work Instruction	Issue date: 14/10/10
Rail Drills	Review date: 31/08/13

Document no.	Work description Use of rail drills		
Review date	References OHS Reg 2001 Chapter 5 <a href="#">SMS-06-PR-0225 Plant</a> <a href="#">SMS-06-GD-0403 Plant Risk Assessment</a>		
Responsible supervisor <i>Insert name in BLOCK letters</i>	PPE and precautions	Competencies or qualifications	Licences or permits required
	<ul style="list-style-type: none"> <li>Safety glasses</li> <li>Hearing protection – everyone must wear hearing protection within <b>5 metres</b> of the drill</li> <li>Long sleeved shirt – Make sure you have no loose clothing that can be caught in the drill</li> <li>Knee guards – you will need knee protection when kneeling on ballast</li> <li>Safety boots</li> </ul>	Trained and competent in the use of the specific rail drills.  Backsafe instruction	N/A
<b>Tools and equipment required</b>			
Rail drill			
IF CONTROL MEASURES ARE NOT SUITABLE AND MAJOR CHANGES ARE NEEDED, CONDUCT A RISK ASSESSMENT AND DEVELOP NEW CONTROLS ACCORDING TO <a href="#">SMS-06-SR-1479 OHS RISK MANAGEMENT</a> .			



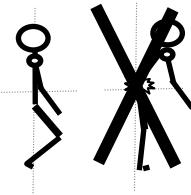
### Warning

*Don't smoke when using or fuelling the rail drill.*

<b>Site / job planning</b>	<ul style="list-style-type: none"> <li>Place the first aid kit and fire fighting gear nearby.</li> <li>Follow all worksite procedures, eg. induction, Pre-Work Brief.</li> <li>Conduct your own hazard assessment – consider the job, the environment and the weather (eg. fire risks are higher where there is long grass or bushland, or in hot, dry or windy weather).</li> <li>Clear the worksite in a 3 metre radius from the rail drill.</li> <li>Keep fuels, people, site equipment and anything flammable well away.</li> <li>Keep Material Safety Data Sheets (MSDS) for fuels and lubricants on site.</li> <li>Special ventilation is needed in tunnels and confined spaces – poisonous Carbon Monoxide can build up if the correct precautions are not taken.</li> </ul>
<b>Refuelling</b>	<ul style="list-style-type: none"> <li>Turn off the drill before adding fuel.</li> <li>Have good ventilation when refuelling or mixing fuels.</li> <li>NEVER start the drill if there is fuel spilt on it or if there is a leak in the fuel system.</li> <li>If there is fuel on your clothes, change them before starting the drill.</li> <li>Only use the correct fuel for the drill – it should be marked RAIL DRILL FUEL and kept in an open area away from possible sources of flames or sparks.</li> </ul>
<b>Pre-operational checks</b>	<ul style="list-style-type: none"> <li>Check the condition of the cutter bit and drill.</li> <li>Don't use if there is any damage. Replace the cutter bit or tag the drill and repair ASAP.</li> <li>Check that the motor is switched off before changing the cutter bit or for any maintenance, including clearing the swarf away.</li> <li>Check the cutter-retaining screws are secure.</li> <li>Check there is enough coolant (water or other) for the job.</li> </ul>

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<b>Setting up</b>	<ul style="list-style-type: none"> <li>Check the immediate area is clear.</li> <li>Use the correct manual handling techniques when lifting the drill.</li> <li>Clamp the drill firmly to the head of the rail.</li> <li>Get a firm foothold and make sure you're holding the drill correctly to stop it moving when you pull the starter cord.</li> </ul>	 <p>When lifting the drill, bend at the knees, with your elbows bent and back straight</p>
<b>Using the rail drill</b>	<ul style="list-style-type: none"> <li>Before starting, make sure you understand what happens and the precautions to take when a drill bit becomes damaged or jams when still in the drill hole.</li> </ul> <p>Always:</p> <ul style="list-style-type: none"> <li>check the Manufacturer's Instructions for the model you are using if you are not familiar with it – there may be safety critical differences to the one you are used to</li> <li>start and stop the drill according to the Manufacturer's Instructions</li> <li>start drilling gently – don't force or squeeze the drill into the rail</li> <li>drill at full throttle</li> <li>keep coolant (water or other) directed at the drill bit</li> <li>remove the swarf with a brush</li> <li>keep hands clear of the borer at all times</li> <li>idle the machine when not drilling</li> <li>wait for freshly cut metal to cool or use heavy-duty gloves to handle it.</li> </ul>	
<b>Care and storage</b>	<ul style="list-style-type: none"> <li>Use the correct manual handling techniques when lifting the drill.</li> <li>Always remove the drill bit after you've finished – store drill bits in a storage box in a dry location with a steady temperature, with a light coating of oil.</li> <li>Do a visual inspection of the rail clamping device.</li> <li>Don't use it if it's damaged. Replace it, don't try to repair it.</li> <li>Store the rail drilling machine and fuel in an unrestricted space away from possible sources of flames or sparks.</li> <li>Drain the fuel tank if the drill is to be stored for any long period.</li> </ul>	
<b>Inspection and maintenance</b>	<ul style="list-style-type: none"> <li>Conduct maintenance as per the Manufacturer's Specifications.</li> <li>Get an authorised dealer to do any repairs or checks/alterations to the motor settings.</li> <li>Maintain inspection and test records in accordance with <a href="#">SMS-16-SR-0057 Inspection and Testing</a> and <a href="#">SMS-05-SR-0027 Records Management</a>.</li> </ul>	
<b>Additional controls</b>		