

	 <b>LESSON LEARNED</b> 	<b>Doc. No.:</b> <b>GP426 F39 Rev. 00</b>
<b>Hitachi Zosen Inova</b>		

<b>Environmental – RWC Cutting injury while drilling a steel pipe</b>			
<b>Number</b>	2023-02	<b>Date</b>	07/02/2023
<p><b>Summary:</b>  On the day of the accident, fitting pieces for pipelines had to be drilled with the pillar drilling machine. In order to be able to safely drill the holes in the pipe fittings, the parts were secured by a screw clamp fixed in a Nockstein. While drilling the hole, the Injured Person (IP) used to suspend the drilling for a few seconds in order to spray the hole with a specific oil. After oiling the hole, when the IP lowered back the drill into the workpiece, the drill bit got stuck in the pipe and tore it upwards out of the holder.  After the workpiece was pulled upwards by the drill, it rotated around the pipe spindle.  The IP reflexively grabbed the rotating piece of pipe and sustained a 3cm cut at his left thumb joint.</p> <p><b>Outcome:</b>  A cut at left thumb joint.</p> <p><b>Incident Classification:</b> RWC , Level 2</p>			



Figure 1 Pillar drilling machine



Figure 2 Properly secured pipe section

**The IP sustained the injury by reaching for the rotating piece of pipe.**



Figure 3 Piece of pipe after the drill bit has caught and pulled the workpiece upwards.

<b>Root Causes and Contributory Factors</b>	<b>Lesson Learned</b>
<ul style="list-style-type: none"> <li>Insufficient securing of the workpiece against uncontrolled movement</li> </ul>	<ul style="list-style-type: none"> <li>Always make sure that the workpieces you need to drill are firmly secured.</li> <li>During the work, always check that the workpiece is secured against uncontrolled movement.</li> <li>Do not interrupt a drilling operation that has been started until it has been completed. Restarting the drilling process after interruption increases the risk of jamming the drill.</li> <li>Never wear gloves when working with the pillar drilling machine, as there is an increased risk of serious injury from being pulled into the drill spindle!</li> <li>Inform your supervisor immediately in case of safety-relevant deviations or incidents of any kind.</li> <li>Do not try to control unexpected movements with your body (hands, feet, etc.)</li> </ul>



Every Lesson Learned is an opportunity to avoid recurrences.  
What have you done to avoid a similar incident on your project?

