

# MPA Health and Safety Awards

Aggregates, Asphalt, Cement, Contracting, Dimension Stone, Lime, Precast Concrete, Mortar, Ready Mix, Recycling and Silica Sand

<b>Topic</b>	Safer production
<b>Entry number (MPA Ref)</b>	202425
<b>Title of Entry</b>	Mini Sample Crusher
<b>Name of Company</b>	Blue Phoenix
<b>Location</b>	IBA Plant, Ferrybridge Power Station
<b>Video</b> <input type="checkbox"/> (if yes, please include URL for video)	No
<b>Other resource</b> <input type="checkbox"/> (if yes, please include description)	1 x pdf
<b>Fatal 6 Theme</b>	1. Contact with moving machinery and Isolation
<b>BACKGROUND</b>	
<p>We recover Non-Ferrous metals and to make sure that the quality of the product is up to a high standard we have to do sample tests.</p> <p>Previously, a hand-held hammer was used when carrying out the sample test as part of company procedures. This process was primitive and needed refining.</p> <p>During a business visit to our operational sites in the USA, various ways to crush and test non-ferrous materials were identified and helped to form the idea of a Mini Crusher. The process to design and develop a Mini Mrusher began.</p>	
<b>MANAGEMENT OF PROCESS</b>	
<p>An external contractor was engaged to design and build a Mini Crusher. A meeting with the contractor was held involving site teams and senior management to give a better overview of the required product.</p> <p>Once the crusher was made by the fabrication company, we used PIB risk services to ensure they were power assessed by our H&amp;S advisors, all these tasks being agreed with the senior management.</p> <p>The site team reviewed and signed the RAMS once the new Mini Crusher was in place, and ensured all risks were removed or controlled.</p> <p>Specific site personnel were trained to use it and a toolbox talk was distributed to all sites within the business, with the Mini Crusher being implemented throughout the business/group.</p> <p>The design, fabrication, review of the RAMS and implementation of the Mini Crusher involved all levels of management, staff and external businesses involved with ensuring the new system worked as required.</p> <p>The Mini Crushers are now used business wide, and significantly help to prevent injury when completing sampling tasks.</p>	

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<p>An isolator on the Mini Crusher makes it safe to use and clean, and when not in use, can be isolated to prevent use by unauthorized personnel.</p> <p>Whilst operating the Mini Crusher, the operative wears an air fed dust mask ensuring that no particles can be breathed in or damage their face.</p> <p>The implementation of the Mini Crusher has advanced the sampling procedure of non-ferrous metals and has prevented manual handling issues and injuries.</p>
<p><b>BENEFITS</b></p>
<p>The use of the Mini Crusher is safer, more consistent and specific to the job.</p> <p>The training has insured the safe use of the machine.</p> <p>Associated Risk Assessments and Method Statements implemented by each site ensures it is operated in a safe and controlled manner. These are reviewed on an annual basis or unless things change.</p> <p>The Mini Crusher has allowed improved efficiency with the sampling of the non-ferrous material, enabling better recovery which in term increases profit.</p>
<p><b>INNOVATION</b></p>
<p>This is an innovative approach to help us sample the non-ferrous material within the business and group wide.</p> <p>It demonstrates a willingness to always improve in all departments of the business.</p> <p>The safety features of the Mini Crusher include an isolator, air fed dust mask when in use to protect the operator, and the door being secured with bolts to prevent the operator coming into contact with moving parts.</p> <p>The Mini Crusher is fully guarded, with safety signage installed, and only trained and authorized personnel can use it.</p>
<p><b>DEVELOPMENT &amp; TRANSFERABILITY</b></p>
<p>The Mini Crusher could be used within other industries who carry out their own sampling, easily transferrable.</p> <p>It has been rolled out throughout the business and is in use at all our UK sites.</p> <p>It has been shared with our team in the United States, Netherlands, Germany and Australia.</p>
<p><b>NB if document has embedded images try and include these</b> <b>If other documents provided say additional information available.</b></p>