

Case Study: MWH, Hill Air Force Base

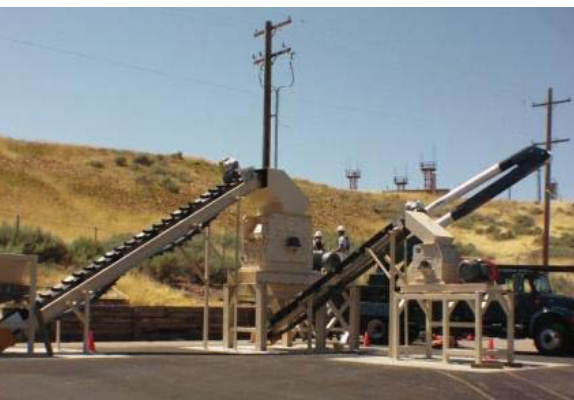
Industry: Recycling

Application: Recycle spent cast iron practice munition housings for re-use in a ground water remediation project.

Equipment: Schutte-Bufferlo Model WA-40-H and Model WA-25-H Industrial Hammermills



Phase one



Phase two

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The Leaders in Size Reduction

Practice Munitions Recycled for Re-Use in Ground Water Remediation Project

The Challenge

At Hill Air Force Base in Salt Lake City, UT, MWH was looking to reduce cast iron material from spent practice munitions to a granular -8 to +50 mesh. The original method of reducing material involved a rotary hammer and anvil crusher. At best, a 4 inch minus particle size was produced.

The Solution

A complete turnkey, two-phase crushing system designed by Schutte-Bufferlo.

Phase One:

Model WA-40-H Industrial Hammermill. Features of the mill include: 1 ½" carbon steel construction, a 40" diameter rotor and two-way reversible cast manganese hammers. Replaceable wear plates line the interior of the grinding chamber to guard against abrasive wear.

Material is fed into the hammer mill via conveyor and vibratory feeder. The material remains in the grinding chamber until it is able to pass through a ½" bar grate.

Phase Two:

Material is then conveyed to the Model WA-25-H Industrial Hammer Mill for a second grind. The WA-25-H is constructed of ⅝" carbon steel plate and features a 24" diameter rotor, two-way reversible hammers and replaceable internal wear plates.

Material remains in the grinding chamber until it is able to pass through a ⅛" bar grate.

The Result

With a complete turn-key system including: conveyors, vibratory feeders, electrical controls, hammer mills and structural supports engineered and provided by Schutte-Bufferlo, a uniform, consistent finished particle size of -8 to -50 mesh achieved in just one system pass.

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