

Instant attraction

The bane of any demolition contractor is how to crush rebar products cleanly for separation and then reclaim the steel economically. Middlewich based Dig A Crusher (DAC) have invented a Hook Lift Magnet unit, which could be the answer to every recycler's dreams.

As an advocate of Dig A Crusher products, Mark Bryan, MD of J Bryan (Victoria) asked the company if they could come up with a simple, efficient and economic machine based on his idea, to separate steel out of concrete C&D waste.

"Using a conventional mobile crushing plant is expensive, needs two operators, two fuel loads and is prone to jamming and damage when processing rebar waste. The concrete has to be fairly clean before it goes into a crusher, otherwise the jaws get jammed, or worse, the steel goes straight through and wrecks the belts," said Mark. "

"We took a completely different approach, and used a DAC 1200 hydraulic crushing bucket fitted to an excavator to recycle the rebar waste. The operator simply drops all the crushed waste into the Hook Lift Magnet unit, which then automatically separates out the clean steel and leaves me with



a pure crushed concrete product at the same time," said Mark.

The 7.5 tonne unit is small enough to fit onto a low loader and can process 100t/hour, easily keeping pace with the DAC 1200 loading bucket. The 1200mm wide belt leads onto an adjustable conveyor, which allows for a 50 tonne stockpile. Using the hook lift at the front, the magnet unit can be moved around the site by fitted rollers. Powered by a 30Kv 3 phase diesel generator, the magnet effectively separates the metal products out of C&D waste fed into a large capacity hopper at the front.

The unit can be operated remotely, thus avoiding an operative on the ground and the subsequent H&S risks. The unit is simple to use, with the only maintenance being light greasing and routine generator checks.

The huge 1200 x 450 jaws can constantly process a 125mm product at over 100tonnes an hour making it ideal for a myriad of application from demolition to quarrying, remediation to waste transfer.

Mark Bryan is delighted with the result, "We have avoided the cost of bringing in a mobile crushing plant. We have also avoided having to process the rebar prior to it being feed into the crusher. We now have a safer process and a very effective means of producing two cash products at the same time. The high load capacity of the magnet means fast separation to boot. Genius! I have a feeling when contractors realise what they are missing, DAC won't be able to build enough of these magnets."

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