



Reclaiming Re-bar From Concrete With Use Of A Self-Cleaning Suspended Overhead Magnet

A large regional concrete recycler required re-bar removal from crushed concrete. An additional requirement was that the re-bar be discharged far enough away from the concrete that the re-bar would not drop back into the cleaned concrete.

Application Specifications:

- Crushed concrete, 6" maximum lump size.
- Conveyor belt 54" wide traveling 260 – 300 FPM
- 12" product depth.
- 1/4" to 1/2" diameter re-bar up to 10' long.

The IMI Solution consisted of:

- Self-Cleaning suspended electromagnet, oil cooled.
- Electromagnet measured 72" square.
- Two Permanent plate magnet extensions to carry collected re-bar away from the cleaned concrete.
- Extra heavy duty vulcanized 3/4" thick self-cleaning belt
- Stainless Steel cleats to prevent re-bar from rolling back into the magnetic field.
- Special Stainless Steel belt guards to prevent metal retention on the side of the magnet.
- Overall length: 24' 2"

For More Information On Suspended Magnet Separators See Techsheets **TG-12A** & **TG-12B**.



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