



ORANGEREPORT

HEAVY INDUSTRY

Aggregate Processor Reduces Downtime and Cost with Suspended Electromagnet

Problem:

[Geneva Rock Products, Inc.](#) was experiencing excessive equipment downtime because of metal contamination. The particular process line on which a problem was identified was a conveyor feeding aggregate into a vertical impact crusher. They found that tramp metal contamination was mixed with product flows moving into the expensive crushers. The cost of equipment failure was proving expensive.

Solution:

Eriez specified a [Series 7000 Suspended Electromagnet](#). This powerful magnet effectively removes damaging tramp metal from thick, solid flows such as coal, limestone, sand or gravel. For this specific application there was another fundamental consideration: altitude. Since heat dissipates more slowly at higher elevations, the high-elevation installation at Geneva Rock required a special electromagnet coil assembly to ensure proper heat dissipation and provide long coil life. Despite the custom requirements, Geneva was pleased to find this did not mean they would have to wait longer for the magnet.

Result:

An effective measure of both the problem and the solution to the situation at Geneva Rock can be found in the heap of tramp metal that gathers beside the aggregate processor. Now the tramp metal, which once caused costly damage, has become harmless trash.



SERIES 7000 SUSPENDED ELECTROMAGNET

Note: Some safety warning labels or guarding may have been removed before photographing this equipment.

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