



**APPLICATION GOAL:** To replace electric vacuums at ten workstations, which are prone to failure in industrial applications and require heavy lifting to discard chips and coolant.



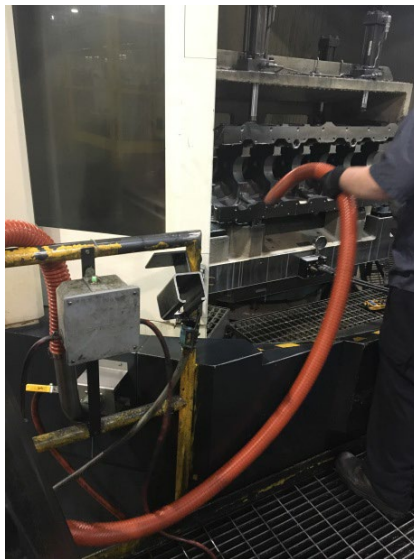
**BEFORE EXAIR:** Electric vacuums were used to remove cast iron chips and coolant from a machining process. These vacuums continually broke down with clogs, coolant saturation in the electric motors, vacuum hose deterioration, etc...all of which caused down time and loss of production. They were being replaced at a rate of 1 every 3 months.

The vacuums' small containers also needed to be emptied, on average, (3) times per shift, meaning the operator had to stop work for 10-15 minutes in order to manually empty it. The full containers could weigh up to 100 lbs, depending on the material and the amount of coolant saturation.

The EXAIR Line Vac was presented as a solution to both the expense of vacuum replacement, and the time and hassle of emptying the heavy containers.

**AFTER EXAIR:** Initially, (2) electric vacuums were replaced with EXAIR [Model 6064 2" Stainless Steel Line Vacs](#). Now, the operators never have to leave their workstations because the conveyance hoses are routed directly to the point of disposal, and the lifting of the heavy containers for dumping has been eliminated.

The Line Vacs have worked flawlessly for over (9) months...in which time they would have had to replace 3 electric vacuums on each of these two machines.



**SUMMARY:** The Line Vacs have been a huge success in this facility. Replacement electric vacuums cost the company \$135.00 each. On (10) machines, replacing a vacuum every three months, that's:

**\$135.00/vacuum X 4 replacements/year X 10 machines = \$5,400.00 in annual replacement cost.**

At a price of \$393.00 each (2018 pricing,) ten Model 6064 Line Vacs cost \$3,930.00 – a savings of \$1,470.00 *in the first year alone*, and continued annual savings of \$5,400.00, not accounting for price increases on the electric vacuums.