

Cold Heading and Thread Rolling Solutions Company Gets Clean Air

Summary

The team at a facility that needed to have most air cleaners cleaned every two weeks and a filtration rate that was often at unacceptable levels reached out to Bee Clean Specialties for help. Bee Clean Specialties has been helping customers with clean air issues since 1977.

Challenge

A cold heading and thread rolling solutions company was faced with air pollution control issues. They were using a single pass electrostatic filtration system. Using this system, when the filters were clean they could filter out 95% of the sub-micron particles generated by the cold formers. However, once the filtration system in place operated for a few weeks filtration effectiveness began decreasing to unacceptable levels. Additionally, this company had many machines that had too little extraction airflow or simply were not connected to the filtration system.

Solution

Bee Clean recommended a SmogHog® double-pass electrostatic filtration system, the SGN which improved the filtration and capture of submicron particles to over 99%. Air volumes and ductwork were also improved with the project.

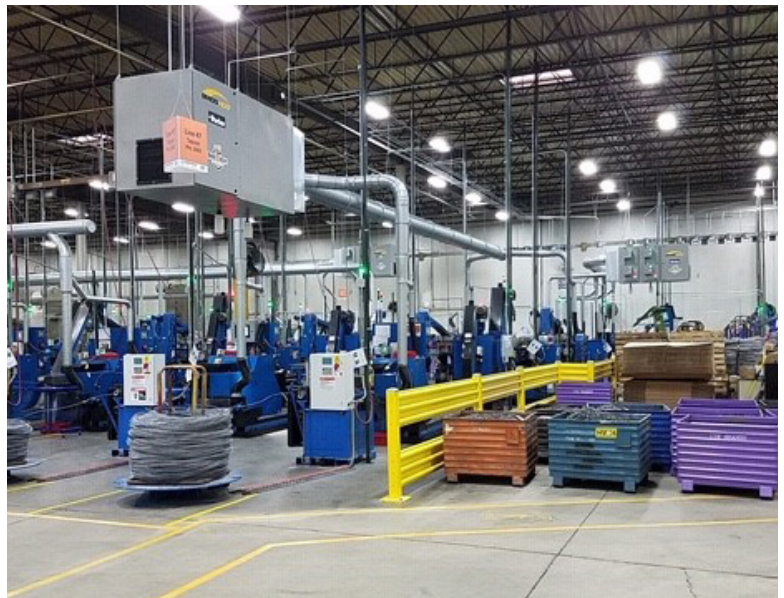
Impact

Healthy, clean air. The SmogHog SGN delivered improved filtration efficiency to 99+% of submicron particles. The system filters were still achieving the same level of filtration after three weeks. Now service for the first pass filtration is scheduled at 50% longer frequency than previously. Service on the second pass of filters every second or third time we service the first pass, and we still maintain 99% efficiency!

- On a per unit basis the company had the same or lower cleaning cost, plus maintained 99% filtration efficiency
- Air volume was increased to capture all the smoke generated because the new, double pass filtration units have higher efficiency
- Now the dock doors can remain closed during the winter, saving heat and lowering expenses while making employees more comfortable



Before Installation



After Installation