EXAIR® Case Study

1551

APPLICATION GOAL: This customer was looking for a replacement to the rubber tips on his hand held blow guns. The rubber tips he was using were deemed as non OSHA compliant for dead end pressure. The air compressor would also short cycle due to the high demand. The goal was to meet the OSHA standard as well as save compressed air.

BEFORE EXAIR: Before EXAIR, the operators in this facility were using commercially available rubber tips on their blow guns. These tips would become damaged quickly and were not OSHA compliant for 30 psi dead-end pressure.

The tips were used at 14 different stations for varying times. Nine operators were using the tips for 1 hour every 8 hour shift, while the other five operators were using them for 30 minutes every 8 hour shift. There were two 8 hours shifts per day.

AFTER EXAIR: After examining the applications, two different engineered Super Air Nozzles were selected to replace the rubber tip nozzles. The rubber tips were more air than needed for the job of blowing off debris. The **Pico** and **Nano Super Air Nozzles** replaced the rubber tips. Eight operators use the Model 1109SS-NPT Pico Super Air Nozzle, while the other six operators use the **Model 1110SS-NPT Nano Super Air Nozzle**. Five of those operators use them for 30 minutes per shift while the other uses it for 1 hour per shift.

SUMMARY: After replacing the rubber tips with the engineered Pico and Nano Super Air Nozzles the blow guns were able to comply with the OSHA standard 1910.242(b) for dead end pressure. The nozzles also lowered the ambient noise level by up to 15.2 decibels. This helped to bring the environment into compliance of the OSHA allowable noise exposure. To top off the application the customer was able to **save 3,319.2 SCFM** per day of operation. This reduced compressor use during production, which will minimize compressor wear.

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