CASE STUDY

1554

APPLICATION GOAL

Reduce noise and compressed air consumption.

BEFORE EXAIR

1/4" open end copper tubes were being used to blow out trim rings from the final stage of a progressive stamping die. Trim rings are the excess pieces of material after the sheet metal part has been formed.
At 80 psi they were consuming 33 SCFM of compressed air and were operating at an ear piercing 94 dBA.

AFTER EXAIR

Replacing the open copper pipe with an engineered **Model 1126 1" Flat Super Air Nozzle**, air consumption was reduced down to 10.5 SCFM and noise was reduced to 75 dBA.

SUMMARY:

The installation of an EXAIR engineered nozzle made this operation compliant with the OSHA directives for sound and dead end pressure. A compressed air savings of 22.5 SCFM was achieved. Based on a one shift operation 250 days per year this amounted to 2,640,000 cubic feet of compressed air savings. (*22 SCFM x 60min/hr x 8 hrs/shift x 250 days/year*)
At a cost of $0.25 to generate 1000 cubic feet the annual savings was $660 ($2.64 per day) by installing a $39 nozzle. Simple ROI was realized in less than 15 days!

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