



APPLICATION GOAL: Reduce air consumption and noise levels.

BEFORE EXAIR: An electrical connector company had 65 stamping presses, each using two, 1/4" (6.35mm) open pipes for part ejection. Each open pipe consumed 23.2 SCFM for an overall total air consumption of 3017 SCFM. This was consuming nearly their entire compressed air system. Also, noise levels were well above acceptable hearing conservation levels and required hearing protection.

They were looking to reduce their air consumption as well as getting noise levels below where hearing protection was required.



AFTER EXAIR: Simply by installing a [Model 1100 Super Air Nozzle](#) on each of the open blow offs, air consumption was reduced from 23.2 SCFM to 14 SCFM per each blow off for a 40% reduction in air usage. By their calculations of energy costs, this amortized out at an annual cost savings of \$45,000.

Sound levels were reduced to 74 dBA, well below the requirement for hearing protection. With the improvement in sound level, other noise sources were now identifiable.



Air Consumption at 80 PSIG (5.5 BAR)		Force*		Sound Level
14 SCFM	396 SLPM	13 Ozs	368 Grams	74 dBA

SUMMARY: As simply as installing engineered nozzles, it can be demonstrated that huge savings can be had. Take a walk through your facility to identify wasteful uses of compressed air that would benefit from these nozzles.