

Focus on BIA's work

Berufsgenossenschaftliches Institut für Arbeitsschutz

No.: 0001 Noise reduction on compressed-air nozzles

○ Problem

Noise is the source of the most frequent occupational disease. More than one third of all confirmed occupational diseases in the industrial trades are related to hearing loss caused by noise; more than two million workers in Germany are directly at risk. It is thus necessary to use all available methods to protect against this hazard effectively. Reducing noise at its source is certainly the most tangible response. Compressed-air nozzles that are often used in the transportation, cooling, and drying of products can cause noise that can damage hearing. Specially designed noise-reducing compressed-air nozzles are available on the market.



Illustration
Noise-reducing
compressed-air
nozzles

○ Activities

Noise and performance measurements were taken on 60 of these noise-reducing compressed-air nozzles that are available on the market. These were measured in different situations, such as blowing edges and corners clean or blowing away particles from drilling. The blowing force and the air flow rate were determined.

