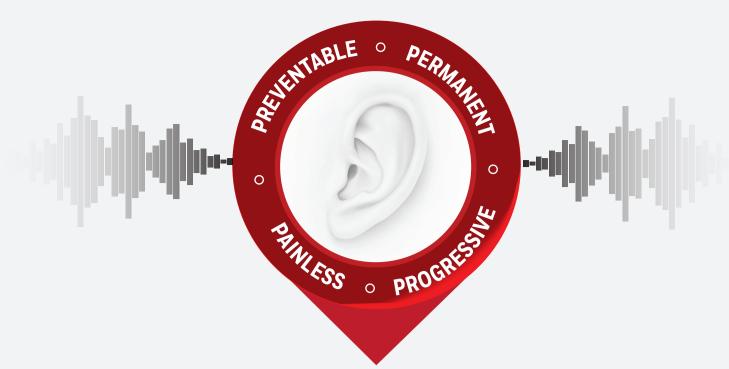
# OCCUPATIONAL NOISE

THE INVISIBLE HAZARD AND KEYS TO SUCCESSFUL HEARING PROTECTION



**NOISE-INDUCED HEARING LOSS (NIHL) IS THE MOST COMMON** PERMANENT AND PREVENTABLE OCCUPATIONAL DISEASE IN EUROPE

**7% 22%34** 

million

jet engine takeoff

Occupational noise exposure is the second most common risk factor in the workplace, behind workplace injuries. Of European workers consider that work affects their health in terms of hearing disorders.

Of workplace related health issues in EU had noise exposure contribution.

Adults in the EU have a disabling hearing loss (35 dB or greater).

hammer on nail

ambulance

bulldozer

siren

generator

wrench

impact

table saw

**CAUSES** 

The noise exposure action levels set at daily or weekly exposure of 80 dB (lower value) and 85 dB (upper value).

(dB), taking into account any attenuation from hearing protection.

The noise exposure limit exceeding daily or weekly exposure of **87 decibels** 

Unlike most injuries, it's difficult to tell when you've been affected by NIHL because it's painless and progressive.

#### **TOP INDUSTRIES WITH NOISE HAZARDS**



AGRICULTURE



OIL & GAS



PUBLIC SAFETY

SERVICES



**TRANSPORTATION** 





UTILITIES



lawnmower

**EXAMPLES OF NOISE HAZARDS** 

Untreated. disabling hearing loss costs to EU each year.\*

SOCIAL ISOLATION AND WITHDRAWAL **LIMITS ABILITY TO UNDERSTAND SPEECH IMPAIRS ABILITY TO** COMMUNICATE



**REDUCES PRODUCTIVITY** 

RESULTS IN TEMPORARY OR PERMANENT HEARING LOSS

HYPERTENSION AND HIGH **CHOLESTEROL** 

In lost productivity in society due to a higher unemployment among people with a disabling hearing loss in the EU.



## EFFECTS OF NIHL ON WORKERS

**Cost to economy** 

Safety Regulations in the EU\* If risk can not banned by

2003/10/EC where noise levels present a health risk, EU countries must ensure the appropriate health surveillance of workers

not be exceeded, principally pertains to a daily or weekly exposure of 87 decibels (dB), taking into account any attenuation from hearing protection.

other means, the employer has to provide properly fitting personal protective equipment (hearing protectors), in accordance to Directive 89/656 EEC.

Refer to Directive 2003/10/EC on the minimum health and safety requirements regarding the exposure of workers to noise.

Cost to society

#### The employer shall assess The workers noise and, if necessary, exposure limit values must

measure the levels of exposure to noise to which workers are exposed

### 'S TO SUCCESSFUL HEARING PROTECTION Occupational NIHL can be reduced or eliminated when

proper measures are implemented



## COMPATIBILITY

### Wearers should:

## **Employers should:**

## Honeywell, Inc.

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\*Factsheet\_67\_\_Noise\_in\_figures%20(1).pdf (WHO Europe, 2017). https://apps.who.int/iris/bitstream/handle/10665/260336/9789241550260-eng.pdf