



## Machinery noise

Are you certain that the **noise** of your machines does not hamper the productivity of your employees? Are you complying with the general laws relating to machine noise? Vinçotte, as a recognised expert on noise, would be happy to help you with all your questions.

### Your tailor-made solution

Vinçotte has extensive experience in performing measurements and conducting studies on the noise generated by machines. Our expertise in this field comprise a wide range of services:

- performing noise measurements on diverse machines under the Machinery Directive
- determination of the sound power level of machines based on sound pressure measurements
- determination of the sound power level of machines based on intensity measurements
- acceptance tests and verification of the requirements according to the specifications
- source identification by means of sound intensity measurements and determination of the relevant partial noise sources of a machine
- activities as a “Notified Body“ under the European Guideline on noise emission by equipment for use outdoors (Notified Body since 1984)
- vibration measurements on machines and their foundations
- measurements and acceptance tests in accordance with various international standards
- advice on how to reduce noise at source
- determination of the maximum sound power level to conform to environmental laws, and to prevent potential nuisance
- investigation into the application of the Best Available Techniques (BAT studies)

When you work with Vinçotte, we offer a wide range of benefits:

- Vinçotte has vast experience concerning noise produced by machinery. It has a team of 10 experienced specialists working in the acoustics department.
- we are a “Notified Body” as per the Royal Decree of 6th March 2002 on the sound power level by equipment for use outdoors
- Belac has awarded us an accreditation for our activities as a “Notified Body”, which makes Vinçotte a neutral and objective agency as per the criteria laid down in the NBN EN ISO/IEC 17025 standard (certificate 016-test) and the NBN EN ISO/IEC 17020 standard (certificate 016-inspection).
- we have an accreditation from Belac to perform intensity measurements to determine the sound power level of sources as per ISO 9614-2, in accordance with the criteria laid down in the NBN EN ISO/IEC 17025 standard (certificate 016-test)
- as a result of the aforesaid recognitions and accreditations, various agencies and authorities accept the results and findings made by Vinçotte

### Your result

You will have a clear and comprehensive report relating to the sound power level of your machinery with, wherever necessary, concrete measures for further noise reduction. Vinçotte can, as a notified body, provide you with the required assistance to bring yourself in conformity with the European Regulations.

### Please note

## Legislations

- ○ ■ Royal Decree of 6th March 2002 on the sound power level by equipment for use outdoors
- ○ ■ Directive 2000/14/EC of the European Parliament and of the Council of 8th May 2000 on the harmonisation of the laws of the Member States relating to noise emission into the environment by equipment for use outdoors
- ○ ■ Directive 98/37/EC of the European Parliament and of the Council on the harmonisation of the laws of the Member States relating to machinery
- ○ ■ Directive 2006/42/EC of the European Parliament and of the Council relating to machinery

## Norms and Standards

- ○ ■ ISO 3740 – 3746 series: Determination of sound power sound pressure measurements
- ○ ■ ISO 9614 –1 & 2 : Determination of sound power levels sound intensity measurements

## In which situation?

These services are available for just about everyone:

- industries
- SMEs
- Government Services and local authorities
- private individuals