

# Directive 2000/14/EC

of the European Parliament and of the Council of 8 May 2000

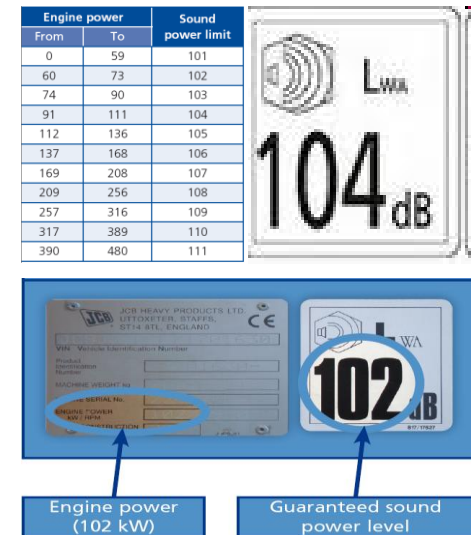
on the approximation of the laws of the Member States  
relating to the noise emission in the environment  
by equipment for use outdoors

- 24.300 different models (9.600 limits + labelling; 14.700 labelling; 3.758 notified via it-tool)
- 120 manufacturers, 79 notified bodies



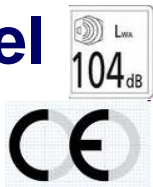
# Directive 2000/14/EC

- **57 equipment types are covered by the Directive**
  - Cleaning equipment
  - Construction equipment
  - Gardening equipment
  - Loading and lifting equipment
  - Power generators, cooling equipment
  - Pumping and suction equipment
  - Snowgroomers (and snowmobiles)
  - Waste collection, processing and recycling
- **Article 12:**
  - 22 equipment are subject to noise labelling and noise limits (two stages: 2002, 2006)
- **Article 13**
  - 35 equipment are subject to noise labelling only



# Directive 2000/14/EC

- **ANNEX I: Definitions of equipment**
- **ANNEX II: EC Declaration of conformity**
- **ANNEX III: Method of measurement of airborne noise emitted by equipment for use outdoors (based on one basic standard, adapted to each type)**
- **ANNEX IV: Models of the CE marking of conformity and of the indication of the guaranteed sound power level**
- **ANNEX V, VI, VII, VIII: Conformity Assessment procedures**
- **ANNEX IX: Notification of bodies**
- **ANNEX X: Unit verification, model of conformity certificate**



# Directive 2000/14/EC

- **The Directive is based on the principles and concepts of the New Approach**
- **The objective of the Directive is**
  - to guarantee the free movement of the equipment
  - to reduce permissible noise levels for such equipment in order to protect the health and welfare of citizens as well as the environment.
- **Means to achieve these objectives**
  - introduce noise limits,
  - provide information to citizens on noise emission of such equipment thereby improving customer choice,
  - ensure level playing field for manufacturers when measuring noise
  - collect noise data

# Directive 2000/14/EC

- **It it replaces 9 former directives**
  - 79/113/EEC (construction plant + equipment)
  - 84/532/EEC (construction plant + equipment)
  - 84/532/EEC (compressors)
  - 84/534 EEC (tower cranes)
  - 84/535/EEC (welding generators)
  - 84/536/EEC (power generators)
  - 84/537/EEC (powered hand-held concrete-breakers and picks)
  - 84/538/EEC (lawnmowers)
  - 86/662/EEC (hydraulic excavators,, rope operated excavators, dozers, loaders excavators)

# Directive 2000/14/EC

- **Article 12 – Equipment subject to noise limits**
  - 22 equipment types
  - Two stages: - Stage I as from 3 January 2002
    - Stage II as from 3 January 2006
- **Directive 2005/88/EC amending Directive 200/14/EC**

In order to allow certain types of equipment (for which clear evidence has been provided that stage II limits are presently not yet technically feasible) to be placed on the market, an amending Directive 2005/88/EC was adopted which made the stage II permissible sound power levels for certain types of equipment indicative only.

# Directive 2000/14/EC

## Relation with other EU initiatives:

**Directive 2003/10/EC on minimum health and safety requirements regarding the exposure of workers to the risks arising from physical agents (noise) – 17th individual Directive**

**Parameters used to determine the risk:**

- Peak sound pressure level**
- Daily noise exposure level**
- Weekly noise exposure level**

**Obligation for employers: minimizing the risk based on risk assessment**

# Directive 2000/14/EC

## Relation with other EU initiatives:

### **Directive 2006/EC on Machinery**

#### 1.5.8. *Noise*

Machinery must be designed and constructed in such a way that risks resulting from the emission of airborne noise are reduced to the lowest level, taking account of technical progress and the availability of means of reducing noise, in particular at source. The level of noise emission may be assessed with reference to comparative emission data for similar machinery.

#### 1.5.8. *Noise contents of the instructions*

- $L_{pA}$ , average produced by machinery at its workstation 70dB(A)
- $L_{PCpeak}$ , strongly impulsive noise
- $L_{wa}$  if  $> 80$  dB(A) and very large machinery (guaranteed  $L_{wa}$  if noise Directive applies)



# Directive 2000/14/EC

## Relation with other EU initiatives:

### **Directive 2002/49/EC on the assessment and management of environmental noise**

- Harmonised assessment methods ( $L_{den}$ )
- Strategic noise mapping
- Action plans
- Information to the public

# Directive 2000/14/EC

- The ‘Noise Directive’ was developed following the 1993 Fifth Environmental Action Programme attached to the Council Resolution of 1 February 1993 and the Green Paper on Future Noise Policy, which identified noise in the environment as one of the most pressing environmental problems in urban areas.
- This fact inevitably resulted in Community action with regard to various noise sources, as the adoption of the ‘Noise Directive’, a framework directive to control noise emission by equipment for use outdoors.

# Directive 2000/14/EC

- **Goal: to tackle the noise emissions at the source (noise is a local problem)**
- **European Directive aims to ensure that only low noise equipment is placed on the market.**
- **Noise management via the Noise Directive:**
  - **Noise limits, definitions and methods of measurement regulated by the Noise Directive**
  - **Regulation of use (working hours, sensitive areas) can be regulated by Member States (Art. 17, TFEU)**

# Directive 2000/14/EC

- **Article 12 (subject to noise limits + labelling)**
  - All equipment types where there is sufficient knowledge existing with regard to state-of-the-art, test codes etc. (former directives or national legislation)
- **Article 13 (subject to noise labelling only)**
  - All equipment types where there is not sufficient knowledge existing with regard to state-of-the-art, test codes etc.
- **Article 16 - Noise data collection**
  - Gathering of information concerning the actual state-of-the-art in order to revise noise limit values or to transfer equipment from Article 13 to Article 12

# Directive 2000/14/EC

## Reform of the Directive

- Feb. 2014 study by CEPS consultancy considered case for merging 2000/14/EC with Machinery Directive  
[http://ec.europa.eu/enterprise/sectors/mechanical/documents/guidance/noise-emissions/index\\_en.htm](http://ec.europa.eu/enterprise/sectors/mechanical/documents/guidance/noise-emissions/index_en.htm)
- Conclusion that, on balance, best option was to keep the directives separate
- Reform of 2000/14/EC will therefore now proceed as a work priority over the 2014-16 period
- Most of its familiar features will remain but .....
- Scope may be increased slightly, Art.12/13 dividing line may change, limit values will be updated (and inaugurated in some cases), possible changes to labelling, database will be discontinued