This guide is intended to help market surveillance authorities with the checking of conformity of Robotic Mowers in the European Union. It should only be taken as suggestions or observations for consideration.
1. Introduction


Key
1) Robotic mower
2) Manual Stop
3) Charge station

Note:
1. The standards indicated in this guide are the latest published versions.
2. The inspection of a product should be conducted using ONLY the standards as declared by the manufacturer in the D.o.C. delivered with the product.
1. Introduction

Main EU technical Directives to be applied to Robotic Mowers

2011/65/EU RoHS (as amended)
Restriction of Hazardous Substances

2012/19/EU WEEE
Waste Electrical & Electronic Equipment

2006/42/EC Machinery

2014/53/EU from 13.06.2017
Radio Equipment Directive (RED)
Is this Robotic Mower compliant with EU Directives?

- This guide is intended for quick evaluation of robotic mower marking:
  - CE marking

- Documentation:
  - EU declaration of conformity (D.o.C.)
  - Instructions

- This guide is not applicable for technical evaluations
- This guide contains extracts of relevant regulations and does not claim completeness of contents
2. Machinery Identification  CE Marking

Machinery Directive 2006/42/EC

**CE marking:**
- The CE Conformity marking shall consist of the initials ‘CE’ as shown left;
- The CE marking shall be affixed to the machinery visibly, legibly and indelibly;
- The CE marking must include the minimum particulars (on the machine e.g. labelled, printed, embossed, etc.);
- The CE marking must be affixed in the immediate vicinity of the name of the manufacturer or his authorised representative, using the same technique.

**Marking of machinery:**
- Business name and address of the manufacturer or his authorised representative;
- Designation of the machinery (may be indicated by a code);
- Designation of series or type (may be indicated by a code and may be combined with the designation of the machinery);
- Serial number, if any;
- Year of construction/assembly.
- Mass in kg
3. Marking requirements

From EN 50636-2-107:2015

- For mains connected Robotic Mowers’ charging station:
  - Rated voltage or rated voltage range in Volts e.g. 230 V or 230-240 V
  - Nature of supply, e.g. 50 Hz or a.c. or ～
  - Symbol for class II stations  
  - Rated power input in Watts or rated current in Amperes
  - IP class

- For low voltage supplied Robotic Mowers’ charging station:
  - Rated voltage or rated voltage range in Volts e.g. 36 V
  - Nature of supply, e.g. 50 Hz, a.c., ～, d.c. or ___

- For Robotic Mowers:
  - Rated voltage in Volts e.g. 18 V
  - Nature of supply, d.c. or ___
  - Cutting width in cm

From the WEEE Directive 2012/19/EU

- Waste Electrical & Electronic Equipment.
4. Documentation / Instructions

Machinery Directive 2006/42/EC

For clarification, consult the European Commission Guide to application of the Machinery Directive 2006/42/EC

- Machinery must be accompanied by instructions in the official Community language(s) of the Member State in which it is made available
- The instructions must contain at least the following information:
  - business name and full address of the manufacturer and of his authorised representative (if the manufacturer is not located in an EU Member State),
  - descriptions and explanations necessary for safe use, adjustment and maintenance operations that should be carried out by the user, and preventive maintenance measures that should be taken,
  - a description of the intended use of the machinery, (professional use and use by consumers),
  - warnings concerning ways in which the machinery must not be used that experience has shown might occur,
  - A-weighted sound power level and its uncertainties
The EU declaration of conformity (D.o.C.) must contain at least the following particulars:

- business name and full address of the manufacturer and, where appropriate, his authorised representative;
- name and address of the person authorised to compile the technical file, who must be established in the European Union;
- description and identification of the machinery including generic denomination, function, model, type, serial number and commercial name;
- a sentence expressly declaring that the machinery fulfils all the relevant provisions of this Directive and, where appropriate, a similar sentence declaring conformity with other Directives and/or relevant provisions with which the machinery complies;
- the place and date of the declaration of conformity;
- the identity and signature of the person empowered to draw up the declaration on behalf of the manufacturer or his authorised representative.
6. Warning text or pictograms on the machine*

- **WARNING** - Read instruction manual before operating the machine
  
  ![Alternative pictograms]

- **WARNING** - Keep a safe distance from the machine when operating
  
  ![Alternative pictograms]

- **WARNING** - Operate the disabling device before working on or lifting the machine
  
  ![Alternative pictograms]

- **CAUTION** - Do not touch rotating blade
  
  ![Alternative pictograms]

- **WARNING** - Do not ride on the machine
  
  ![Alternative pictograms]

* If pictograms are used, they must be explained in the instructions
* If text is used it must be in the official language(s) of the country where the product is sold

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