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**Garden equipment — Safety  
requirements for combustion-engine-  
powered lawnmowers —**

**Part 2:  
Pedestrian-controlled lawnmowers**

**AMENDMENT 2: Cutting-means-  
enclosure guards**

*Matériel de jardinage — Exigences de sécurité pour les tondeuses à  
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*AMENDEMENT 2: Enceintes de protection des organes de coupe*





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Amendment 2 to ISO 5395-2:2013 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, Subcommittee SC 13, *Powered lawn and garden equipment*.

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# Garden equipment — Safety requirements for combustion-engine-powered lawnmowers —

## Part 2: Pedestrian-controlled lawnmowers

### AMENDMENT 2: Cutting-means-enclosure guards

Page 8, 4.5.2

Revise the subclause with the following:

#### 4.5.2 Opening or detaching of guards

NOTE The provisions of this subclause are mandatory only when required by regional regulations.

The opening or detaching of guards shall require the use of a tool except for:

- a) interlocked guards, in accordance with ISO 14119, which shall prevent access before the moving parts have come to a complete stop. While the hazardous part is exposed, it shall not be possible to apply power to it;
- b) automatically closing guards for side located grass discharge openings in the cutting-means enclosure, which shall cover the opening when the side discharge chute is not fitted. Such guards shall be equipped with a locking mechanism to prevent inadvertent access and be in accordance with the following:
  - the opening shall require a distinct action to unlock the guard prior to a second action to open the guard;
  - when released from the position necessary to remove the adapter or discharge chute, the guard shall automatically return to a closed and locked position to prevent access to the cutting means;
  - the automatically closing side discharge guard shall be a part of the cutting-means enclosure.
  - when in the locked position, a force of 20 N applied to the guard at the most unfavourable position shall not result in the release of the guard from its locked state.
- c) automatically closing guards for grass discharge chutes. Such a guard shall remain in its operating position when:
  - the lawnmower is operated on the coconut matting according to ISO 5395-1:2013, E.6,
  - the cutting means are engaged and operated at maximum operating engine speed, and
  - the cutting means are adjusted to the lowest and highest cutting positions.

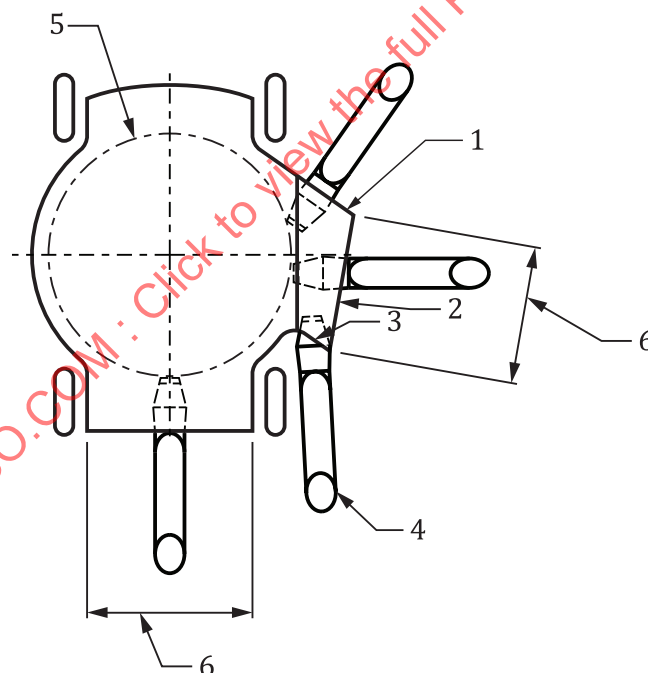
*Compliance shall be checked by inspection, functional test and measurement.*

Revise the subclause with the following:

### 5.3.2.2 Foot protection test

Protection from contact with cutting means shall be verified by applying the foot protection test in accordance with ISO 5395-1:2013, Annex C to the following:

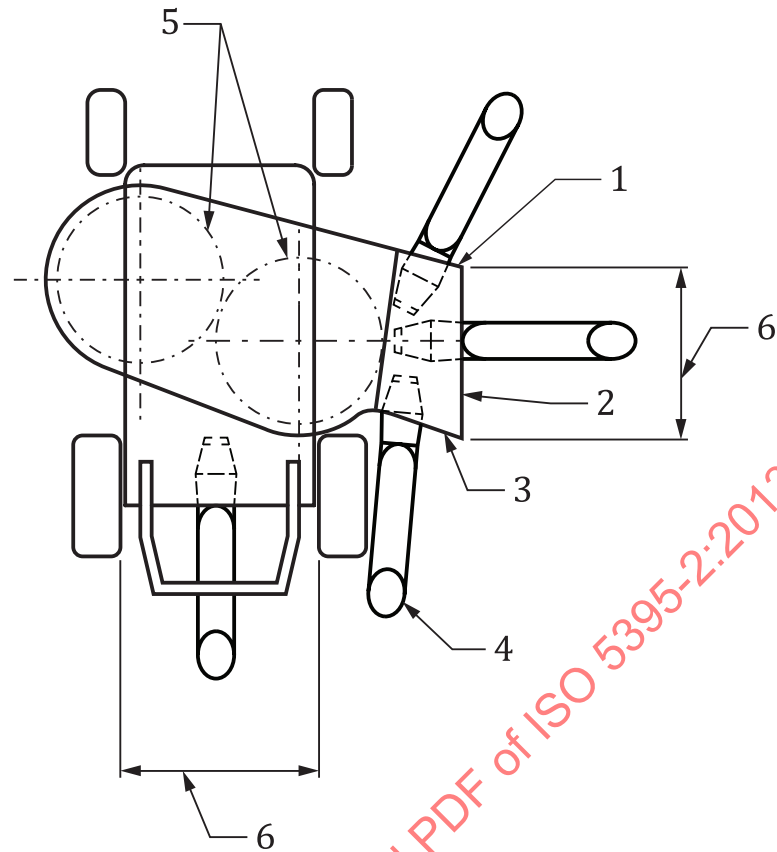
- a) the front opening, if any;
- b) the discharge opening, if any, including:
  - the area below the discharge opening, if the cutting-means enclosure is less than 3 mm below the cutting-means tip circle as measured to the tip circle at the point of insertion;
  - the sides of any discharge opening or chute, if these are less than 3 mm below the cutting-means tip circle.
- c) the rear of pedestrian-controlled lawnmowers between the wheels as shown in [Figure 8](#) and [Figure 9](#).
- d) areas within 60° on either side of any starting position described in the instruction handbook, which is not in the operator control zone for lawnmowers where the cutting means is not disengaged from the engine by a clutch. The 60° angles shall have their vertices at the centre of rotation of the cutting means nearest to the operator.



#### Key

- 1 side of discharge chute probed if less than 3 mm below plane of blade tip circle
- 2 discharge opening
- 3 side of discharge chute probed if less than 3 mm below plane of blade tip circle
- 4 foot probe (also probe cutting-means enclosure from any designated starting position)
- 5 cutting-means tip circle
- 6 areas to be probed

**Figure 8 — Areas of the lawnmower to be probed**



**Key**

- 1 side of discharge chute probed if less than 3 mm below plane of blade tip circle
- 2 discharge opening
- 3 side of discharge chute probed if less than 3 mm below plane of blade tip circle
- 4 foot probe (also probe deck from any designated starting position)
- 5 cutting-means tip circle
- 6 areas to be probed

**Figure 9 — Areas of the lawnmower to be probed**

Page 27, 7.1.2

Replace the subclause with the following:

## 7.1.2 Technical data

The instruction handbook shall give at least the following technical information for each lawnmower model, where required to be declared.

NOTE The provision of this information is mandatory only when required by regional regulations.

Nominal power	kW
Maximum operating engine speed (rotational frequency)	min <sup>-1</sup>
Machine mass with empty fuel tanks and in normal operating configuration	kg
Cutting width	cm
Equivalent A-weighted emission sound pressure level at the operator position, determined in accordance with ISO 5395-1:2013, Annex F	dB (A)
— together with the measurement uncertainty	dB (A)
A-weighted sound power level, determined in accordance with ISO 5395-1:2013, Annex F	dB (A)
— together with the measurement uncertainty	dB (A)
For hand-arm vibrations, the highest equivalent vibration total value for the handles or hand positions, determined in accordance with ISO 5395-1:2013	m/s <sup>2</sup>
— together with uncertainty of stated value, K	m/s <sup>2</sup>
For an operator on a sulky (if applicable), for whole body vibrations the highest root mean square value of weighted acceleration, determined in accordance with ISO 5395-1:2013	m/s <sup>2</sup>
— together with uncertainty of stated values, K	m/s <sup>2</sup>
Sales literature describing the machinery should not contradict the instructions regarding health and safety aspects.	

Sales literature describing the performance characteristics of machinery should not contradict the information on noise emissions and vibration values as are contained in the instruction handbook.