

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery – Safety – Part 3-10: Particular Requirements for Transportable Cut-Off Machines, UL 62841-3-10, are being proposed for preliminary review and comment only:

1. Proposed Changes To Clause 19.101.2.1 To Clarify That Guarding Is Required If Any One Of The Three Elements Is Not Circular

VOTES AND COMMENTS DUE: May 14, 2018

IEC COPYRIGHT STATEMENT

All IEC Standards and Working Documents are copyrighted by the IEC. This copy, without regard to its form or media, whether a complete copy of an IEC Standard or Working Document or extracted portions from an IEC Standard or Working Document, retains all IEC copyrights. The conveyance of this copy does not affect IEC copyrights or transfer any copyrights.

This copy is for the exclusive use by the recipient only in the development of USNC position(s) on the development, evaluation, use or maintenance (including adoption by US Standards Developing Organizations (SDOs) of this or other IEC publications. No other use is authorized. No further copying, distribution or use of this document is authorized. Possession by others is not authorized. This document may not be used for commercial purposes.

The National Difference Page and IEC Foreword have been provided for your reference in reviewing this document. However, they are not considered to be part of the ANSI balloted material.

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. Proposed Changes To Clause 19.101.2.1 To Clarify That Guarding Is Required If Any One Of The Three Elements Is Not Circular

RATIONALE

Proposal submitted by: John Stimitz, UL LLC, on behalf of the International Harmonization Committee (IHC) for the adoption of the IEC series of standards for Hand-Held, Motor-Operated, and Transportable Tools and Lawn and Garden Machinery

The current language ("if the spindle end, the nut and the outer flange are not circular, they shall also be guarded.") may be interpreted to mean only when all three elements (spindle end, nut, outer flange) are not circular, then they shall be guarded. However, the intention of the requirement is to require guarding if any of the three elements in not circular. Accordingly, revisions to Clause 19.101.2.1 are being proposed to incorporate this clarification.

**UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM**



Documents

Document Sharing Hub

This proposed change correlates with the change to IEC 62841-3-10 as specified in IEC Corrigendum 1 for IEC 62841-3-10, published by the IEC July 2016.

PROPOSAL

19.101.2.1 Tools shall be provided with a combination of fixed and movable **wheel guards** that covers the areas 1, 2 and 3 of the tool as shown in Figure 103.

When the **cutting unit** is in the fully down position, area 1 is the area above a line parallel with the base which intersects the centre of the wheel. For any position of the **cutting unit**, the sides and periphery of the wheel, except the spindle end, the nut and the **outer flange**, shall be guarded in area 1.

If the spindle end, the nut and or the **outer flange** are not circular, they shall also be guarded.

When the **cutting unit** is in the **rest position**, area 2 is the area at the front of the tool between area 1 and at least 15° (angle β in Figure 103 b) below a line parallel with the base which intersects the centre of the wheel. In **rest position**, the area 2 shall be guarded by a **wheel guard** which protects the periphery and both sides of at least the outer 20 % of the radius of the wheel.

When the **cutting unit** is in the fully down position, area 3 is the area at the back of the tool between area 1 and at least 15° (angle α in Figure 103a) below a line parallel with the base which intersects the centre of the wheel. In the fully down position, the area 3 shall be guarded by a **wheel guard** which protects the periphery and both sides of at least the outer 10 % of the radius of the wheel.

Compliance is checked by inspection and by measurement.

When for technical reasons an overlapping occurs between the fixed and the movable **wheel guard**, care shall be taken to prevent access to the wheel in the overlapping area.

*Compliance is checked by applying the test probe of Figure 104 with a force not exceeding 5 N between the fixed **wheel guard** and the movable **wheel guard** in all positions. It shall not be possible to contact the wheel with the test probe.*

The movable **wheel guard** shall be either:

- “link activated” complying with the requirements of 19.101.2.2; or
- “workpiece activated” complying with the requirements of 19.101.2.3.

When the handle is released, the **cutting unit** shall return automatically to its **rest position** and the guarding of area 2 shall be restored.

NOTE Movable guards of this type are also known as self-restoring **guards**.

Copyright © 2018 Underwriters Laboratories Inc.