



UL 62841-4-1000

STANDARD FOR SAFETY

Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery – Safety – Part 4-1000: Particular Requirements For Utility Machines

UL Standard for Safety for Electric Motor-Operated Hand-Held Tools, Transportable Tools And Lawn And Garden Machinery – Safety – Part 4-1000: Particular Requirements For Utility Machines, UL 62841-4-1000

First Edition, Dated June 19, 2020

Summary of Topics

This revision of ANSI/UL 62841-4-1000 dated January 5, 2023 includes the following changes in requirements:

- Maximum payload capacity clarification; [K.8.3](#)***
- Stability test clarification; [K.19.8](#)***

Text that has been changed in any manner or impacted by UL's electronic publishing system is marked with a vertical line in the margin.

The revised requirements are substantially in accordance with Proposal(s) on this subject dated November 18, 2022.

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical photocopying, recording, or otherwise without prior permission of UL.

UL provides this Standard "as is" without warranty of any kind, either expressed or implied, including but not limited to, the implied warranties of merchantability or fitness for any purpose.

In no event will UL be liable for any special, incidental, consequential, indirect or similar damages, including loss of profits, lost savings, loss of data, or any other damages arising out of the use of or the inability to use this Standard, even if UL or an authorized UL representative has been advised of the possibility of such damage. In no event shall UL's liability for any damage ever exceed the price paid for this Standard, regardless of the form of the claim.

Users of the electronic versions of UL's Standards for Safety agree to defend, indemnify, and hold UL harmless from and against any loss, expense, liability, damage, claim, or judgment (including reasonable attorney's fees) resulting from any error or deviation introduced while purchaser is storing an electronic Standard on the purchaser's computer system.

No Text on This Page

JUNE 19, 2020
(Title Page Reprinted: January 5, 2023)



ANSI/UL 62841-4-1000-2023

1

UL 62841-4-1000

**Standard for Electric Motor-Operated Hand-Held Tools, Transportable Tools
And Lawn And Garden Machinery – Safety – Part 4-1000: Particular
Requirements For Utility Machines**

First Edition

June 19, 2020

This ANSI/UL Standard for Safety consists of the First Edition including revisions through January 5, 2023.

The most recent designation of ANSI/UL 62841-4-1000 as an American National Standard (ANSI) occurred on January 5, 2023. ANSI approval for a standard does not include the Cover Page, Transmittal Pages, and Title Page.

Comments or proposals for revisions on any part of the Standard may be submitted to UL at any time. Proposals should be submitted via a Proposal Request in UL's On-Line Collaborative Standards Development System (CSDS) at <https://csds.ul.com>.

Our Standards for Safety are copyrighted by ULSE Inc. Neither a printed nor electronic copy of a Standard should be altered in any way. All of our Standards and all copyrights, ownerships, and rights regarding those Standards shall remain the sole and exclusive property of ULSE Inc.

COPYRIGHT © 2023 ULSE INC.

No Text on This Page

CONTENTS

Application.....	5
1 Scope	5

Annex K (normative) Battery tools and battery packs

K.1 Scope	6
K.3 Terms and definitions	6
K.8.14.1.101 Safety instructions for utility machines	9
K.8.14.1.102 Safety instructions for utility machines with lifts	10
K.8.14.1.103 Safety instructions for utility machines with hoppers	10
K.14 Moisture resistance	12
K.19 Mechanical hazards	13
K.19.301 Requirements for utility machines	14
K.19.302 Particular requirements for utility machines	17
K.19.303 Wheels and skids	17
K.19.304 Control devices	17
K.19.305 Latches and securing devices	18
K.19.306 Lifts	18
K.20.301 Requirements for utility machines	19
K.20.301.1 Wheelbarrow Handles	19
K.20.301.2 Loading strength	19
K.20.301.3 Machine lift strength	19
K.20.301.4 Machine lift endurance	19
K.20.301.5 Machine hopper strength	20
K.20.301.7 Hydrostatic pressure	20
K.21.301 Maximum speed	21
K.21.302 Lock-out system	21
K.21.303 Disabling device	22
K.21.303.1 General	22
K.21.303.2 Removable disabling device	22
K.21.303.3 Code protected disabling device	22
K.24.1 Supply connection and external flexible cords	23

Annex L (normative)

Annex AA (normative) Safety signs for safety instructions and warnings

No Text on This Page

Application

All clauses, Clauses 1-28, of the main body of UL 62841-1 apply unless otherwise specified in this standard.

This standard is to be used in conjunction with Annex K in the First edition of UL 62841-1.

1 Scope

Replacement:

This standard applies to battery power-assisted utility **carts**, **wagons** and **wheelbarrows**, which hereinafter will be referred to as a “**utility machine**” and are covered by Annex [K](#).

This standard does not apply to **utility machines** connected to the supply mains or to a **non-isolated source**.