

UL 583

STANDARD FOR SAFETY

Electric-Battery-Powered Industrial Trucks



MAY 14, 2021 - UL583 tr1

UL Standard for Safety for Electric-Battery-Powered Industrial Trucks, UL 583

Tenth Edition, Dated August 15, 2012

Summary of Topics

This revision of ANSI/UL 583 dated May 14, 2021 includes the following changes in requirements:

- Revision to 64.2 to Allow for Electronic Distribution of Installation Instructions for Fieldinstalled Accessories
- Revision to 22.4.2 to Correct the Course Length for Towing Tractors

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 December 11, 2020 and March 12, 2021.

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.

tr2 MAY 14, 2021 - UL583

No Text on This Page

This is a preview. Click here to purchase the full publication.

AUGUST 15, 2012

(Title Page Reprinted: May 14, 2021)



1

UL 583

Standard for Electric-Battery-Powered Industrial Trucks

The first edition was titled Industrial Gasoline-Tractors. The second and third editions were titled Power-Operated Industrial Trucks (Electric Battery-Powered & Gasoline-Powered). The fourth edition was titled Power-Operated Industrial Trucks.

First Edition – January, 1950 Second Edition – March, 1951 Third Edition – May, 1954 Fourth Edition – November, 1956 Fifth Edition – January, 1971 Sixth Edition – May, 1972 Seventh Edition – December, 1977 Eighth Edition – September, 1991 Ninth Edition – June, 1996

Tenth Edition

August 15, 2012

This ANSI/UL Standard for Safety consists of the Tenth Edition including revisions through May 14, 2021.

The most recent designation of ANSI/UL 583 as an American National Standard (ANSI) occurred on May 5, 2021. 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.

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

COPYRIGHT © 2021 UNDERWRITERS LABORATORIES INC.

This is a preview. Click here to purchase the full publication.

No Text on This Page

CONTENTS

INT	RC	DI	JCT	ΓΙΟΝ

	Scope	
2	Components	7
3	Units of Measurement	7
4	Undated References	
5	Terminology	
6	Reference Standards	
7	Samples	
,	ounipioo	
TYPE E	TRUCKS	
CONST	RUCTION	
8	General	
9	Motors and Electromechanical Brakes	
10	Motors	10
11	Electric Controls	10
12	Wiring	11
13	Overcurrent Protection	13
14	Power Source Compartment or Enclosure	
15	Industrial Truck Power Sources	
	15.1 Lead acid batteries	
	15.2 Lithium batteries	
	15.3 Fuel cells	
	15.4 Electrochemical capacitors	
	15.5 Onboard battery chargers	
16	Power Source Connectors	
17	Lamps, Lampholders, and Horns	
.,,	17.1 General	
	17.2 Horns	
18	Spacings	
10	18.1 General	
	18.2 Barriers	
10	Low-Voltage Limited Energy Circuit	
19 20	Separation of Circuits	
20	Separation of Circuits	
PERFO	RMANCE	
0.4	Abnormal Operation	00
	Abnormal Operation	
22	Temperature	
	22.1 General	
	22.2 Fork-lift and platform-lift trucks	
	22.3 Load-carrying, fixed-platform trucks	
	22.4 Tractors	
23	Brakes	
24	Dielectric Voltage Withstand	
25	Arc-Rupturing	
	25.1 Motor controllers and contactors in motor circuits	26
	25.2 Switches controlling other than motor circuits	
	25.3 Overload test	27
26	Burnout	28