

ANSI MH29.1:2012
(a revision of MH29.1:2008)



Safety Requirements for Industrial Scissors Lifts

Abstract:

Mobile and stationary industrial scissors lifts raise, lower and position materials and personnel in various applications but are different from other conveyances such as aerial work platforms (AWP) and elevators. MH29.1 has been revised to better illustrate that personnel operate and may themselves be raised or lowered by industrial scissor lifts. This standard now defines dock lifts, work access lifts and lift tables as the three categories of industrial scissors lifts and identifies their differences and similarities. The responsibilities of manufacturers, users, owners and operators have been reordered, consolidated and enhanced. Lastly, the requirements within the standard have been revised where needed to ensure they are stated using mandatory language.

This revision contains a new section on operator responsibilities and modifies values related to the indicator bars in the section on platform protection.



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Safety Requirements for Industrial Scissors Lifts

Lift Manufacturers Product Section (LMPS)

An Industry Group of Material Handling Industry of America,
A Division of Material Handling Industry

Approved February 23, 2012

American National Standards Institute, Inc.

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FOREWORD. This Standard, approved by ANSI on February 23, 2012, was developed under Material Handling Industry's (MHI) ANSI approved procedures, and represents suggested design practices and operational requirements for [Product]. It was developed by the Lift Manufacturers Product Section (LMPS), and is intended to provide useful information and guidance for owners, users, designers, purchasers and/or specifiers of material handling equipment or systems. It is advisory only and should only be regarded as a simple tool that its intended audience may or may not choose to follow, adopt, modify, or reject. The following information does not constitute a comprehensive safety program, cannot guard against pitfalls in operating, selecting and purchasing such a system, and should not be relied upon as such. Such a program should be developed, and an independent adviser should be consulted in doing so.

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FOR Questions Contact:

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standards@mhia.org.

Foreword (This foreword is not part of American National Standard MH29.1)

This Standard, which was originally approved by ANSI on January 14, 1994, represents recommended practices for industrial scissors lifts. It was developed to offer information to parties engaged in the manufacture, marketing, purchase or use of industrial scissors lifts.

The Lift Manufacturers Product Section of Material Handling Industry of America is comprised of a substantial portion of the major companies that design and manufacture industrial scissors lifts in the United States. This original standard is the result of LMPS's recognition of the need to develop a comprehensive standard and establish minimum design and performance criteria for the application and utilization of industrial scissors lifts, and was formulated under American National Standards Institute (ANSI) procedures.

LMPS formed the MH 29 Committee in 1990. At the date of approval of this standard, the LMPS consisted of the following member companies:

4Front Engineered Solutions, Inc.
Advance Lifts Inc.
Autoquip Corporation
Bishamon Industries Corporation
Pentalift Equipment Corporation
Southworth International Group, Inc.

Suggestions for Improvements or Interpretations

Interpretations, comments and requests for changes to this Standard shall be considered in response to a written request sent to the MHI Standards Coordinator as shown below (electronic submissions may also be made to the Standards Coordinator at standards@mhia.org):

MH29.1 Committee
8720 Red Oak Boulevard, Suite 201
Charlotte, NC 28217-3992
Attention: Standards Coordinator

Comments and change requests must be submitted utilizing the following format:

Designation: Cite the standard designation, MH29.1:2012.

Subject: Cite the applicable paragraph number(s) and a concise description of focus.

Issue: Clearly and concisely state the issue that needs to be addressed (e.g. do values need to be changed, are editorial changes needed, is additional explanation needed, or do requirements need to be added/dropped?).

Suggested Change: Optionally state suggested changes to the standard.

Requests which are not submitted in this format may not be considered. The MHI Standards Coordinator maintains a log of all change requests received for this standard so they may be considered during the next revision cycle.

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Safety Requirements for Industrial Scissors Lifts

SECTION 1 – Scope and Purpose

1.1 Scope

1.1.1 Equipment Covered. This standard applies to industrial scissors lifts that are raised and lowered by means of hydraulic, pneumatic or mechanical actuation. These industrial scissors lifts are intended for commercial applications on firm and level surfaces and may be either stationary or mobile and used to position, feed, transfer, load or unload materials and/or personnel. Some of these combinations are not covered by this standard as listed in 1.1.3. Industrial scissors lifts are available in a range of capacities, sizes and travels and include dock lifts, work access lifts and lift tables which are categorized by function as described in Section 3 “Glossary”.

1.1.2 Effective Date. This standard becomes effective August 23, 2012 (6 months after approval date). This standard applies to industrial scissors lifts that are manufactured after the effective date of this standard.

1.1.3 Equipment Not Covered. This standard does not apply to:

- (1) Lift tables that do not incorporate scissors type mechanisms.
- (2) Aerial or work platforms as covered by ANSI/SIA A92.
- (3) Elevators and equipment covered in ANSI/ASME A17.1, safety code for elevator and escalators (The National Elevator Code).
- (4) Vertical reciprocating conveyors such as those covered in ANSI/ASME B20.1, Safety Standard for conveyors and related equipment.
- (4) Vertical lifts intended for transportation of a mobility impaired person only as covered in ANSI/ASME A18.1 – The Safety Standard for Platform Lifts and Stairway Chairlifts.
- (5) Automotive vehicle service lifts such as covered in ANSI/ALI ALIS, ANSI/ALI ALOIM, and ANSI/ALI ALCTV.
- (6) Vehicle transport lifts as covered in ANSI/ASME PALD, Part 17.
- (7) Performing art lifts such as stage and orchestra lifts.

1.2 Purpose

This standard applies to industrial scissor lifts to achieve the following objectives:

- (1) Prevention of personal injuries and accidents.
- (2) Establishment of criteria for design, manufacture, performance and operation.
- (3) Establishment and understanding by designers, manufacturers, owners/users and operators of their respective responsibilities.