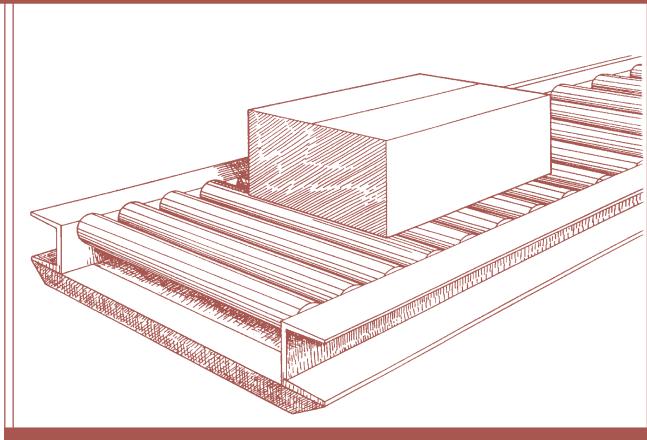
CEMA STANDARD NO. 401- 2003



ROLLER CONVEYORS - NON POWERED



Unit Handling Conveyors

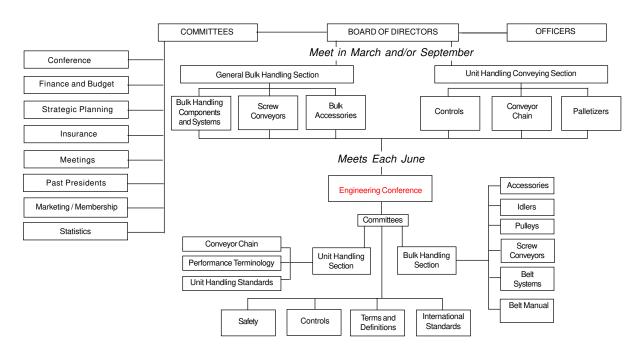


Conveyor Equipment Manufacturers Association

ISBN 978-1-891171-23-9

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CEMA ORGANIZATIONAL CHART



For Information on Company Membership visit the CEMA Web Site at http://www.cemanet.org

SAFETY NOTICE

The Conveyor Equipment Manufacturers Association has developed Industry Standard Safety Labels for use on the conveying equipment of its member companies.

The purpose of the labels is to identify common and uncommon hazards, conditions, and unsafe practices which can injure, or cause the death of, the unwary or inattentive person who is working at or around conveying equipment.

The labels are available for sale to member companies and non-member companies.

A full description of the labels, their purpose, and guidelines on where to place the labels on typical equipment, has been published in CEMA's *Safety Label Brochure* No. 201. The Brochure is available for purchase by members and non-members of the Association. Safety Labels and Safety Label Placement Guidelines, originally published in the Brochure, are also available free on the CEMA Web Site at http://www.cemanet.org/CEMA_Safety_Pg.htm

PLEASE NOTE: Should any of the safety labels supplied by the equipment manufacturer become unreadable for any reason, the equipment USER is then responsible for replacement and location of these safety labels.

Replacement labels and placement guidelines can be obtained by contacting your equipment supplier or CEMA.

FOREWORD

During the past century roller conveyors have developed from the original wooden rollers, with steel pins on the ends rotating in a frame, to the present day all metal construction with anti-friction bearings.

The first attempt to establish a standard method of evaluating the merits of the various sizes and designs being offered in the marketplace was the 1962 edition of CEMA Standard 401.

The purpose of this work is to establish certain minimum standards of comparison for use by concerns which specify, manufacture, and use non-powered roller conveyors.

For additional information relating to definitions and selection of common components, see the latest edition of the following publications: CEMA Standard No. 102, *Conveyor Terms and Definitions*; CEMA Standard No. 402, *Belt Conveyors*; CEMA Standard No. 403, *Belt Driven Live Roller Conveyors*; CEMA Standard No. 404, *Chain Driven Live Roller Conveyors*; CEMA Standard No. 405. *Slat Conveyors*; and CEMA Standard No. 406, *Lineshaft Driven Live Roller Conveyors*.

The illustrations throughout this book are schematic in nature and represent the general nature of a particular device. The illustrations are not intended to represent the recommended safety configurations since guarding has been omitted to permit clarity in showing the operational characteristics of the device. Refer to the current editions of ANSI/ASME B20.1, Safety Standard for Conveyors and Related Equipment; ANSI/ASME B15.1, Safety Standard for Mechanical Power Transmission Apparatus; and ANSI Z244.1, American National Safety Standards for Lockout/Tagout of Energy Sources - Minimum Safety Requirements; Title 29, Code of Federal Regulations (29 C.F.R.) Part 1910.147, The Control of Hazardous Energy (lockout/tagout); Title 29, Code of Federal Regulations (29 C.F.R.) Part 1910 Subpart O, Machinery and Machine Guarding. Consult ASME or ANSI for the latest editions.

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CONVEYOR EQUIPMENT MANUFACTURERS ASSOCIATION

6724 Lone Oak Blvd Naples, Florida 34109 Web Site: http://www.cemanet.org

Standard No. 401 (PDF) - Copyright 2009 Printed in the U.S.A.

ISBN 978-1-891171-23-9

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Note - CEMA Has Reaffirmed the 2003 Edition. This 2009 Edition is Identical to the 2003 Edition

SUMMARY OF CHANGES IN 2003 EDITION

- All drawings have been cleaned up and enhanced for clarity where necessary.
- Foreword has been updated to include new Safety References.
- A Safety Notice regarding Industry Standard Safety Labels has been added.
- Terms and Definitions have been edited to conform with those in ANSI/CEMA 102 "Conveyor Terms and Definitions".
- · All Figures and charts have been redrawnand, in some cases, modified for clarity

CEMA Standard No. 401-2003 (R2009)
Reviewed by
Unit Handling Section
of the
CEMA Engineering Conference

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