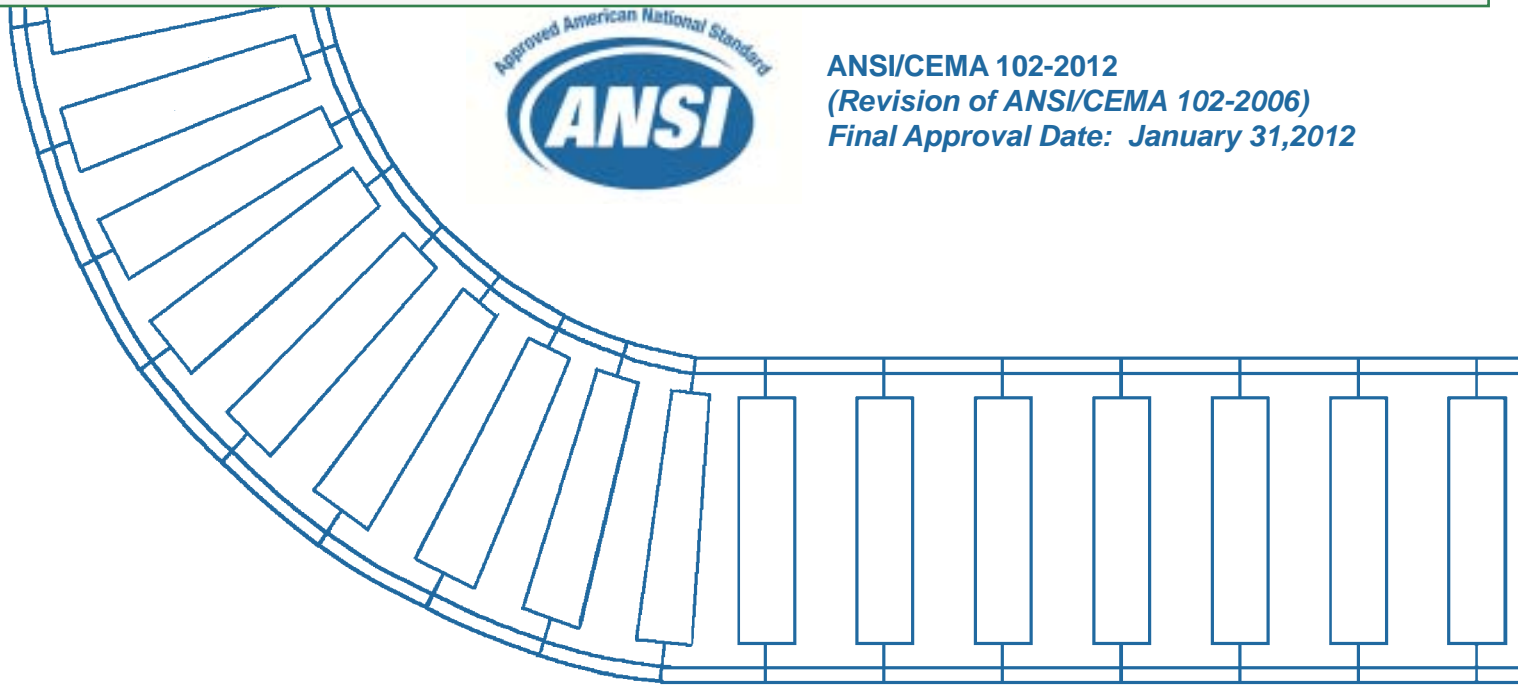




ANSI/CEMA 102-2012  
(Revision of ANSI/CEMA 102-2006)  
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# CONVEYOR

## *Terms and Definitions*

CEMA No. 102-2012



Conveyor Equipment  
Manufacturers Association

*CEMA Standard 102 - Conveyor Terms and Definitions (Ninth Edition) - 2012*

# CONVEYOR TERMS AND DEFINITIONS

CEMA No. 102-2012

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## Foreword

This, the ninth (2012) edition of the industry dictionary, CONVEYOR TERMS AND DEFINITIONS revises the eighth edition of ANSI-CEMA 102. ANSI/CEMA 102-2006.

The first edition was a successful attempt by the members of the Conveyor Equipment Manufacturers Association (CEMA) to introduce order into varying terminology and definitions as an aid to users of conveyor equipment and systems, to manufacturers, educators and the many others whose work or interests may bring them in contact with material handling equipment.

In due course, this dictionary was approved as an "American National Standard" under the voluntary standards procedure of the American National Standards Institute in 1956, and has been reaffirmed or revised regularly since then.

This standard of nomenclature and definition has been adopted by conveyor manufacturers in the United States, Canada, and in many countries of the world. It has found a place in the U.S. information libraries throughout the world and in the offices of many embassies and consulates of the United States.

Throughout the book, an effort has been made to define a conveyor or related equipment by what it "is" rather than what it "does." Preferred terms are followed by their definitions. Other terms in common use are listed, but cross-indexed back to the preferred term in each case. Trade names have been avoided in all instances except those where long established use by the public has given them the status of common property.

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 standards, as guarding has been omitted for clarity of the operational characteristics of the device. Refer to the current editions of American National Standards ASME/ANSI B20.1, "Safety Standard for Conveyors and Related Equipment; ANSI/ASME B 15.1, "Safety Standard for Mechanical Power Transmission Apparatus"; and ANSI Z244.1, "Safety Requirements for the Lockout/Tagout of Energy Sources."*

Many technical and engineering terms commonly used in the conveyor industry have been included with the recognition that these same terms may be used extensively by other groups. This edition reflects the interrelationship between the machines of materials movement and processing machinery to a point where the dividing line between the two becomes almost indistinguishable at times; and the trend of the "systems" approach to planning conveyor design and application.

The Conveyor Equipment Manufacturers Association gives its special thanks to the engineers of the member companies and to the other interested members of the conveying community who gave freely of their own time over the years in a dedicated effort to make this publication as complete and accurate as possible at any given time and, all the while, realizing that such a book can never be completed since it is a part of a dynamic and expanding culture.

## Ninth Edition - Summary of Changes

As with any standard, the Ninth Edition of CEMA's Conveyor Terms and Definitions contains normative and non-normative sections. Normative items are part of the standard. Non-normative items are informational. (Introduction, Foreword, and Appendixes).

The Normative portion of this Edition of the Standard contains 4 new terms and 1 modified terms and definitions when compared to the Eighth Edition as well as 26 Palletizer terms and definitions moved from Appendix A (non-normative) to the normative part of the standard. (See list on page iv)

The Ninth Edition contains Three Non-Normative Appendixes that contain specialized sets of terms and definitions that CEMA has previously published as either CEMA Standards or Pamphlets.

They are included in this edition to capture them in one place as a service to the conveying industry. It is hoped that users will provide CEMA suggested modifications or changes to these definitions over the life of the Standard. It is CEMA's intention to then include some or all of them as part of the normative section of the standard in future editions.

**NOTE: All of these terms and definitions will be in this color in the normative pages for ease of identification.**

### NEW TERMS AND DEFINITIONS

Case stop	Motor Driven Live Roller Conveyors
Multi-strand chain conveyor	Motor Driven Rollers (MDR)

### MODIFIED TERM AND DEFINITION

Apron

### PLLETIZER TERMS AND DEFINITIONS

Bag palletizer	Infeed	Pallet retainers	Row former
Bulk palletizer	Layer	Pallet stackier	Slide plate
Case depalletizer	Layer guides	Pallet stop	Sheet dispenser
Case palletizer	Layer table	Palletless loader	Stripper plate
Case turner	Load hoist	Pattern	Unitizer
Discharge conveyor	Load host, auxiliary	Pusher bar	
Full Load conveyor	Pallet magazine	Rake	

Prepared and Coordinated by the

CONVEYOR TERMS AND DEFINITIONS COMMITTEE  
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CEMA ENGINEERING CONFERENCE

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NINTH EDITION