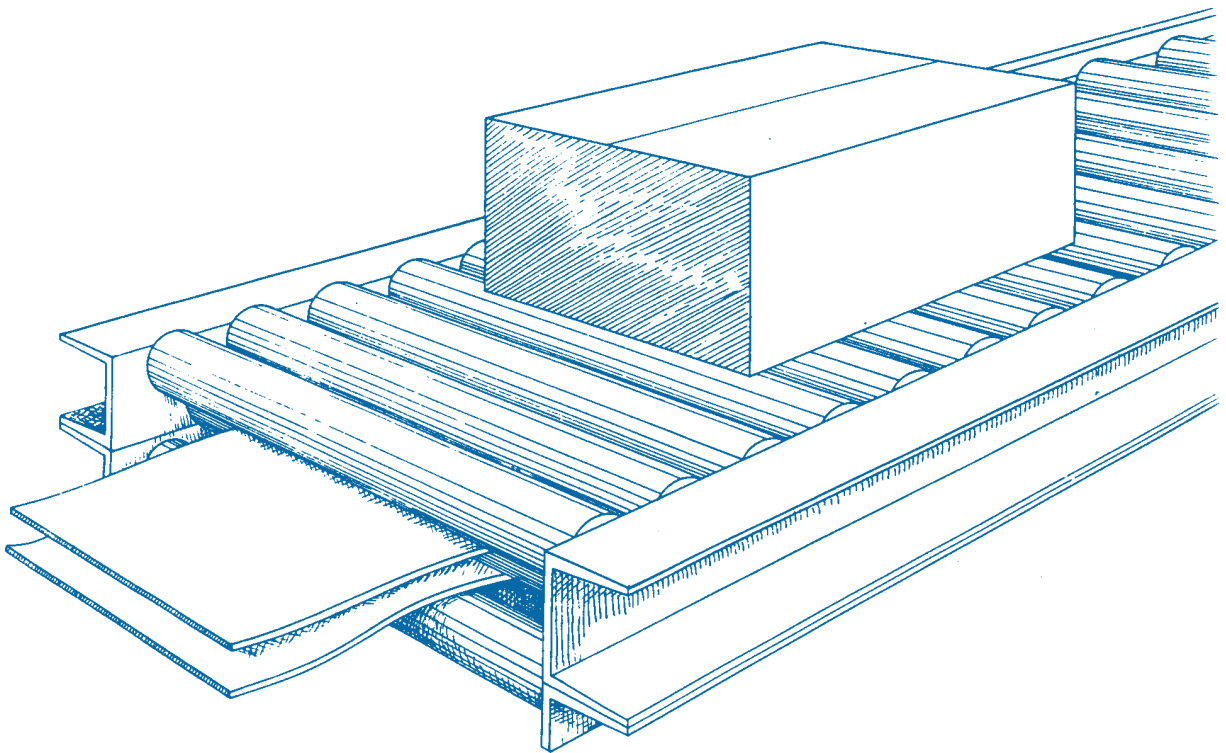


CEMA STANDARD NO. 403-2003



ANSI/CEMA 403-2003 (R2015)
Reaffirmation of ANSI/CEMA 403-2003
(Approved January, 2015)

BELT DRIVEN LIVE ROLLER CONVEYORS



Unit Handling Conveyors



Conveyor Equipment
Manufacturers Association

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FOREWORD

Belt driven live roller conveyors -- conveyors which use a roller bed for the carrying surface and a belt as a driving medium -- are used for the controlled movement of a great variety of regular or irregular shaped loads, from light and fragile to heavy and rugged unit loads. The bottom surface of the load must be conveyable on a roller bed.

The path is usually horizontal, but it can be slightly inclined or declined, limited only by the friction between the rollers, drive belt, and the load.

Belt driven live roller conveyors can be operated at the speed best suited for the work being performed. They are used where unit loads are allowed to accumulate causing blocked line conditions, as a pacesetter for assembly operation, for loading on and off, for transportation, or as a timing medium for integrated handling systems.

The purpose of this work is to establish certain minimum standards for use by concerns manufacturing or utilizing unit handling live roller conveyors.

For additional information relating to definitions and selection of common components, see the latest edition of the following publications: ANSI/CEMA Standard No. 102, Conveyor Terms and Definitions; ANSI/CEMA Standard No. 401, Belt Conveyors; ANSI/CEMA Standard No. 402, Belt Conveyors; ANSI/CEMA Standard No. 404, Chain Driven Live Roller Conveyors; ANSI/CEMA Standard No. 405, Slat Conveyors; and ANSI/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 Lock-out/Tag-out of Energy Sources - Minimum Safety Requirements; 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.

In 2003 edition, all drawings have been cleaned up and enhanced for clarity, a Safety Notice regarding Industry Standard Safety Labels has been added, Terms and Definitions have been edited to conform with those in ANSI/CEMA Standard No. 102 "Conveyor Terms and Definitions",

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