CEMA Standard No. 407 - 2015
Approved: September 16, 2015

CEMA Standard No. 407

Motor Driven Live Roller (MDR) Conveyors

Conveyor Equipment Manufacturers Association

DISCLAIMER

The information provided herein in advisory only.

These recommendations provided by CEMA are general in nature and are not intended as a substitute for professional advice. Users should seek the advice, supervision and/or consultation of qualified engineers, safety consultants, and other qualified professionals.

Any use of this publication, or any information contained herein, or any other CEMA publication is made with agreement and understanding that the user and the user's company assume full responsibility for the designs, safety, specifications, suitability and adequacy of any conveyor system, system component, mechanical or electrical device designed or manufactured using this information.

The user and user's company understand and agree that CEMA, its member companies, its officers, agents and employees are not and shall not be liable in any manner under any theory of liability to anyone for reliance on or use of these recommendations. The user and the user's companies agree to release, hold harmless and indemnify and defend CEMA, its member companies, successors, assigns, officers, agents and employees from any and all claims of liability, costs, fees (including attorney's fees), or damages arising in any way out of the use of this information.

CEMA and its member companies, successors, assigns, officers, agents and employees make no representations or warranties whatsoever, either expressed or implied, about the information contained heed to, representations or warranties that the information and recommendations contained herein conform to any federal, state or local laws, regulations, guidelines or ordinances.

Conveyor Equipment Manufacturers Association
5672 Strand Ct., Suite 2
Naples, Florida 34110 - 3314
www.cemanet.org

FOREWORD

Motor Driven Live Roller (MDR) Conveyors – Conveyors which use individual motors and rollers as a carrying surface, or utilize a belt as a carrying 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 path may be horizontal, inclined or declined, limited by the stability of the load and the friction between the carrying surface and the load.

MDR conveyors typically can be set-up to the speed best suited for the work being performed, and in some cases variable speeds can be used. They are used where unit loads are allowed to accumulate, typically with no load to load contact, causing blocked line conditions, as a pace setter for assembly operation, for loading on and off, or for transportation.

The Unit Handling Conveyor Section of the Conveyor Equipment Manufacturers Association has the responsibility for maintenance of this standard. The purpose of this standard is to establish certain minimum standards for use in the design and application of motor driven live roller conveyors. For additional information relating to definitions and selection of common components, see current edition of ANSI/CEMA Standard No. 102, Conveyor Terms and Definitions.

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 1910.147, The Control of Hazardous Energy (lock-out/tag-out); 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.

TABLE OF CONTENTS