



WHAT CEMA STANDARDS PROVIDE THE CONVEYING INDUSTRY

CEMA does not perform any individual certifications of companies or items of equipment.

Manufacturers self-certify to their customers their compliance with the dimensional, load, and other criteria *defined* in the relevant *CEMA* industry standards.

CEMA provides the industry with standards and other documents that perform the following functions:
(Words quoted or paraphrased from the Forewords to the Standards)

All

- Consistent industry terminology with associated definitions.
- Basic engineering guidelines to enable the proper selection of standard components and develop these into a functional conveyor layout.

Unit Handling Conveyors (ANSI/CEMA Standards 401-406, 601)

- Standard methods of evaluating the merits of various sizes and designs being offered in the marketplace.
- Certain minimum standards of comparison for use by concerns which specify, manufacture, and use certain items of conveying equipment.
- Includes engineering guidance on major components along with associated formulae and supporting tabular data.
- Guides for the design, construction, installation, operation, and maintenance of these mechanisms.

Troughing and Return Idlers (CEMA Standard 502)

- Assurance to users of conveyor idlers interchangeability of complete idler assemblies but does not restrict the manufacturer, who has complete freedom to design all parts of the idler according to its best engineering judgment.
- Uniform dimensional load and capacity information for: Troughing Idlers with equal length rolls; Picking Idlers with unequal length rolls; Return Idlers with single steel roll but typically available with rubber discs; V Return Idlers with a pair of steel rolls but typically available with rubber discs; Live Shaft Idlers with steel or rubber surfaces.
- Nomenclature and selection methods to provide a versatile and realistic means of classifying idlers.
- Includes Idler selection criteria along with associated formulae and supporting tabular data.

Bulk Material Belt Conveyor Impact Bed/Cradle (CEMA Std 575)

- Assures the users ... that an Impact Bed/Cradle is dimensionally compatible with conveyor idlers manufactured to CEMA Standard No. 502.

Screw Conveyors (ANSI/CEMA Standards 300 and 350)

- Recommended dimensional standards for major screw conveyor components based on Carbon Steel Fabrication.
- An Engineering Guide to provide a common basis for the selection and installation of screw conveyors of sizes and capacities to handle the most commonly encountered bulk materials of commerce and industry.
- Includes engineering guidance on major components along with associated formulae and supporting tabular data.

Pulleys (ANSI/CEMA Standards B105.1 and 501.1)

- Recommended load ratings to provide a basis for economical selection of pulleys. They are not intended in any way to limit the design of any manufacturer.
- Pulley selection criteria and associated formulae.

Belt Conveyors for Bulk Materials (CEMA Belt Book - Not a Standard)

- The information ... is intended to cover basic principles of belt conveyor design and includes such formulas, tables, charts, and recommendations as are required to design most belt conveyors. Experienced conveyor engineers can use the information and engineering principles to design virtually any width, length, configuration, and capacity of bulk materials handling belt conveyor and predict its performance within an acceptable range.