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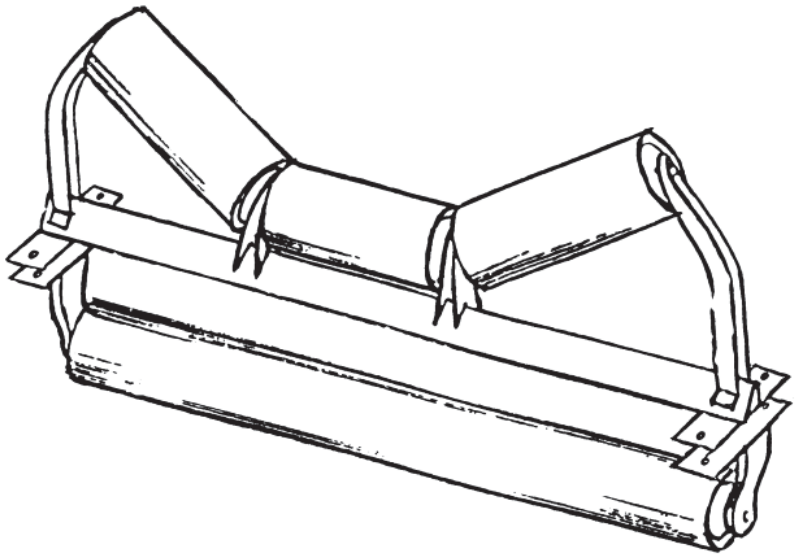
Conveyor Equipment Manufacturers Association

CEMA STANDARD: 502-2015
A revision of CEMA 502-2004
Approved: September 16, 2015

CEMA Standard No. 502

BULK MATERIAL BELT CONVEYOR TROUGHING AND RETURN IDLERS

Selection and Dimensions
With Metric Conversion



Provided by the Members of the Bulk Belt Conveyor Idler Manufacturers of the Conveyor Equipment Manufacturers Association as a service to the industry

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FOREWORD

This standard has been established to provide uniformity of clearance and mounting dimensions among the various manufacturers of conveyor belt troughing idler and return rolls.

This standard assures the 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.

The various idlers are separated into nine different classes according to load ratings and roll diameters. There are some overlaps because of wide variation in idler construction. All manufacturers must specify into which class their particular designs fall.

It is hoped this standardization will eliminate requests for special idler designs. Conformance with this standard will provide better designs at lower cost.

The 1998 edition added technical data for expanded belt widths on CEMA C, D, and E Rollers and Returns and the tables have all been reformatted to make the material easier to access.

In 2001 edition, additions were made to technical data for CEMA C, D, and E Picking Idlers, Live Shaft Idler Dimensions and Load Capacities for Rubber Disc and Steel Tube Designs, and modifications to the Idler Selection Procedures to include Impact Idler Selection.

The 2004 edition has reformatted the tables for CEMA Class B, C, D, and E Troughing Idlers, Picking Idlers, and Return Idlers for easier reference; redrawn the Idler Diagrams to conform with the revised tables; added CEMA Class F Idlers; reformatted and consolidated CEMA Load Ratings and Capacities Tables

In 2015 Edition, the Members of the Bulk Belt Conveyor Idler Manufacturers of CEMA:

1. Added Metric Values to all tables.
2. Added CEMA Roll Run-Out (TIR) Standard.
3. Added Metric Idler Selection Example.
4. Added International Standards Comparison.

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