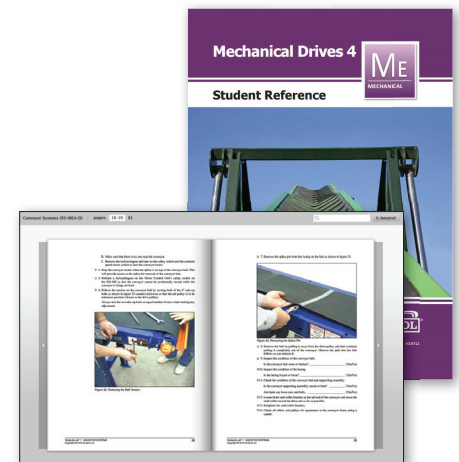


# Floor-Standing Belt Conveyor Learning System

97-ME4D



Student Reference Guide and Optional eBook Curriculum

## Learning Topics:

- Material Handling
- Conveyor Function
- Conveyor Component Identification
- Flat Belt Conveyor Operation
- Conveyor Safety
- Flat Belt Conveyor Installation
- Flat Belt Conveyor Adjustment
- Calculate Conveyor Belt Length
- Selection of Belt Conveyor

Amatrol's Floor-Standing Belt Conveyor Learning System (97-ME4D) adds to the Mechanical Drives 1 Learning System (970-ME1) to teach skills related to flat belt conveyors. Flat belt conveyors are used in industry to transport material and packages. Learners will study topics like conveyor function, operation, component identification, and safety, as well as installation and adjustment.

This Floor-Standing Belt Conveyor Learning System features endless flat belt, adjustable tension and tracking control, crown pulley design, electric motor drive, safety guards, and more! Learners will use these and other components to practice belt installation, belt operation, belts speed calculation, inspection, and more. Amatrol uses components that learners will find on-the-job in order to give the best opportunity to build confidence and industrial competencies.



## Technical Data

Complete technical specifications available upon request.

### Industrial Belt Conveyor

- Endless flat belt
- Horizontal design
- Steel frame construction
- Adjustable tension control
- Adjustable tracking control
- Crown pulley design
- Belt width: 12-in
- Overall length: 70-in
- Overall height: 27-29-in adjustable
- Electric motor drive, .33Hp
- Safety guards
- Freestanding legs, adjustable in height
- Cable connection to 950-ME1 workstation

### Student Curriculum (B19160)

### Instructor's Guide (C19160)

### Install Guide (D19160)

### Student Reference Guide (H19160)

### Optional eBook (E19160)

### Utilities:

- Power Drawn from 970-ME1

### Additional Requirements

- Mechanical Drives 1 Learning System (970-ME1)

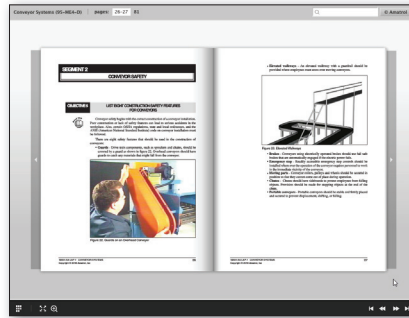
## Real-World Training in Operation and Maintenance for Belt Conveyors

The 97-ME4D includes an operational floor-standing flat belt conveyor; student learning materials for both theory and lab, and a teacher's guide. This system uses industrial quality components to help learners become better prepared for what they will encounter on the job and to withstand frequent use. Learners will use this equipment to practice real-world, hands-on skills like installing and adjusting a flat belt conveyor, maintaining and inspecting a flat belt conveyor, calculating conveyor belt length, and calculating the linear speed of a conveyor using two methods.



## World-Class Conveyor Adjustment and Inspection Curriculum and Hands-On Skills

This learning system also includes Amatrol's world-class curriculum, which combines strong theoretical knowledge and concepts with hands-on skills for the best industrial competency-building on the market. This thorough, exceptionally detailed curriculum is built to begin with the basics and steadily advance to more complex concepts and skill. The 97-ME4D curriculum covers major objectives like installing and adjusting flat belt conveyors, maintaining and inspecting a flat belt conveyor, calculating conveyor belt length and the linear speed of a conveyor. As an online option to printed curriculum, Amatrol's eBooks allow learners to use Amatrol's curriculum in an online environment. Enhanced with features like keyword searches and zoom controls, Amatrol's eBooks enable users to locate and view information with ease. Available online through Amatrol's Learning Management System (LMS), this comprehensive curriculum advances learners' understanding of concepts at the click of a button.



Optional Online eBook

## Multiple Expansion Systems for Mechanical Drives Training

In addition to Floor-Standing Belt Conveyors, the 970-ME1 can be expanded to train learners on V-belt drives, chain drives, synchronous belt drives, and coupling (97-ME2), bearings, seals, and gaskets (97-ME3), and clutches, brakes, and flywheels (97-ME4). Further, you can also add systems for Roller Pack machine Tool Axis (97-ME4A) and Machine Tool Chip Conveyors (97-ME4E).

## Student Reference Guide

A sample copy of the Mechanical Drives Student Reference Guide is also included with the system for your evaluation. Sourced from the system's multimedia curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfectly-bound book. Student Reference Guides supplement this course by providing a condensed, inexpensive reference tool that learners will find invaluable once they finish their training making it the perfect course takeaway.



Certified ISO 9001:2015