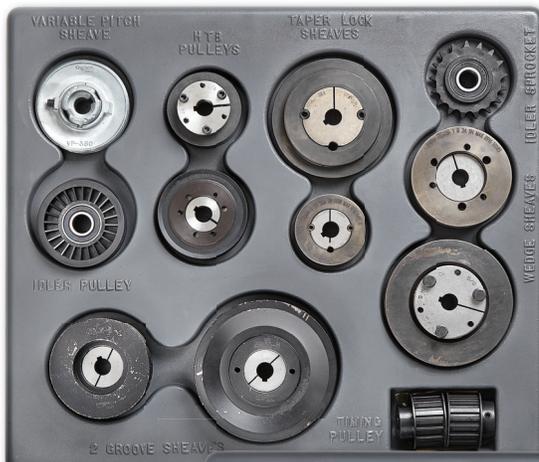


Mechanical Drives 2 Learning System

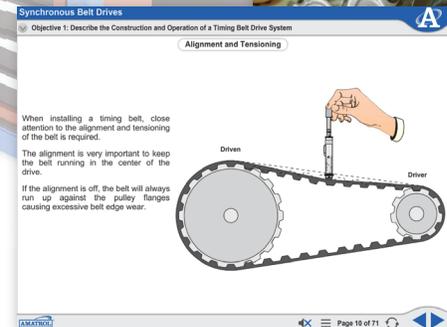
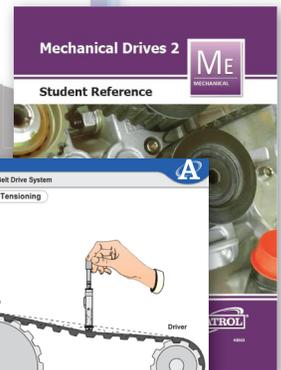
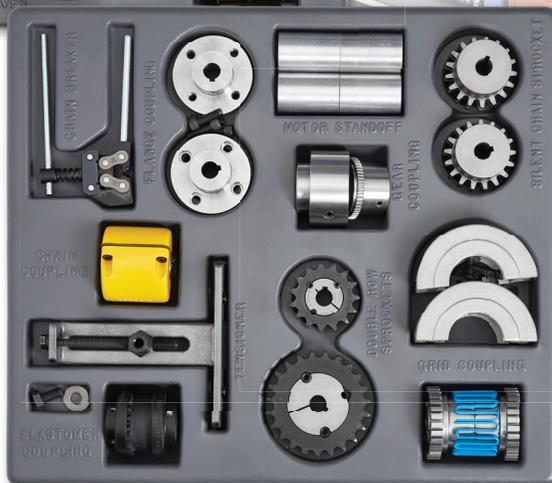
97-ME2

ME

MECHANICAL



Mechanical Drives 2 Learning System



Interactive Multimedia Curriculum and Student Reference Guide

Learning Topics:

- Heavy Duty V-Belt Drives
- V-Belt Selection and Maintenance
- V-Belt Drive Troubleshooting
- Synchronous Belt Drives Selection and Maintenance
- Synchronous Belt Drive Troubleshooting
- Lubrication Concepts
- Precision Shaft Alignment
- Flange Couplings
- Elastomeric Couplings
- Couplings
- Heavy-Duty Chain Drives

Amatrol's Mechanical Drives 2 Learning System (97-ME2) covers the construction, operation, installation, and alignment of heavy-duty V-belt drives, synchronous belt drives, and heavy-duty chain drives. This system also delves into topics associated with the maintenance and proper operation of these drives, such as belt and chain selection, lubrication, couplings, and drive troubleshooting. The drive systems featured in this mechanical drives training system are utilized in countless automotive, agricultural, industrial, and commercial applications, so the advanced manufacturing career fields for learners using these skills are vast. This mechanical drives training expansion system requires the Mechanical Drives 1 Learning System (970-ME1), viscometer, and a computer.

This mechanical drives training system consists of a coupling/sprocket package, belt drive components package, power transmission belt and chain package, a grease gun, various indicators, and a fastener kit. Learners will use these real-world components to practice hands-on skills, such as installing and aligning a backside V-belt idler, troubleshooting a V-belt drive system, using a grease gun to lubricate a pillow block bearing, and installing and aligning a silent chain drive system. Amatrol uses components that learners work with in real-world environments in order to facilitate the strongest competency skill building and to supply heavy-duty components that stand up to frequent training use.



Technical Data

Complete technical specifications available upon request.

Coupling/Sprocket Package

- Gear Coupling Kit
- Flange Coupling Kit
- Elastomer Coupling Kit
- Taper Lock Bushings
- Chain Breaker
- Motor Standoffs

Belt Package

- "B" Section Sheaves
- Two Groove Sheaves
- Split Taper Bushings
- Taper Lock Bushings
- Timing Belt Pulley
- HTD Sprockets

Power Transmission Belt Package

- V-Belts
- Timing Belt
- HTD Belt

Power Transmission Chain Package

- Single Row #40 Chains

Lubrication Package

- Grease Gun with Grease Cartridge
- Safety Data Sheets

Indicator Package

- Dial Indicator
- Shaft Clamp
- Swivel Clamps

Interactive Multimedia Curriculum (M19152)

Instructor's Guide (C19152)

Installation Guide (D19152)

Student Reference Guide (H19152)

Additional Requirements:

- Mechanical Drives 1 Learning System (970-ME1)
- Viscometer (18588)
- Computer, please see requirements at: <http://www.amatrol.com/support/computer-requirements/>

Utilities:

- Supplied by the 970-ME1

Use Mechanical Drives Training to Practice Skills like Troubleshooting Synchronous Belt Systems

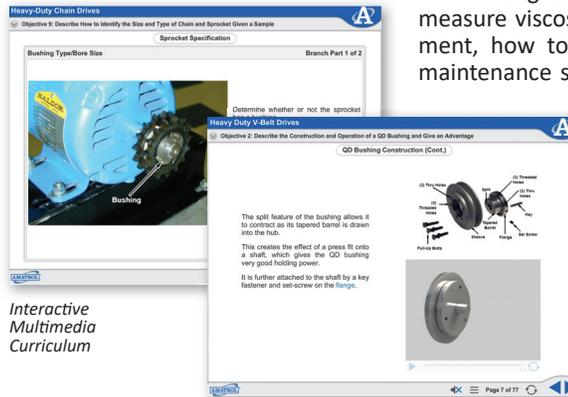
The Mechanical Drives 2 training system includes a collection on packages featuring various real-world components for constructing heavy-duty V-belt drives, synchronous belt drives, and heavy-duty chain drives. These components are kept in part storage trays that are stored beneath the frame of the Mechanical Drives 1 Learning System (970-ME1). Components include industrial-grade bushings, sheaves, couplings, belts, sprockets, chains, and more! Learners will use these components to complete skills like measuring to determine correct belt size and type, installing and aligning a high torque drive belt drive system, aligning a coupling using the rim and face indicator method, and selecting a chain and sprocket for a given application.



Coupling/Sprocket Tray Stored Beneath the 970-ME1

Interactive Multimedia Mechanical Drives Curriculum: Self-Paced eLearning Curriculum Available 24/7

Amatrol's Mechanical Drives training curriculum covers a range of topics including the construction and operation of a wedge V-belt drive, the function and operation of V-belt match codes, how timing belts and pulleys are specified, how to measure viscosity, the effect of indicator sag on alignment, how to troubleshoot a coupling system, and maintenance steps for a chain drive. This mechanical drives training curriculum is presented in a stunning interactive multimedia format that integrates various types of learning methods to create an astoundingly engaging learning experience. Amatrol's multimedia includes text with voiceovers, video, 3D animations, pictures, and interactive activities, quizzes, and self-reviews.



Interactive Multimedia Curriculum

Even More Mechanical Drives Training Expansions!

In addition to Mechanical Drives 2, the 970-ME1 can be expanded to train learners on bearings, seals, and gaskets (97-ME3), as well as clutches, brakes, and flywheels (97-ME4). Further, you can also add systems for Roller Pack Machine Tool Axis (97-ME4-A), Floor-Standing Belt Conveyor (97-ME4-D), and Machine Tool Chip Conveyor (97-ME4-E).

Student Reference Guide

A sample copy of the Mechanical Drives 2 Student Reference Guide is included with the learning system. Sourced from the curriculum, the Student Reference Guide takes the entire series' technical content contained in the learning objectives and combines them into one perfectly-bound book. If you would like to inquire about purchasing additional Student Reference Guides for your program, contact your local Amatrol Representative for more information.

