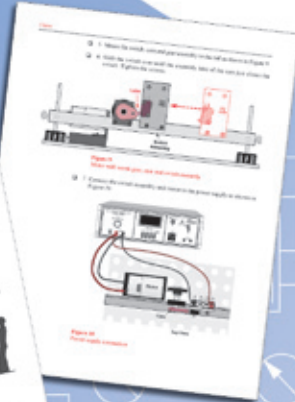
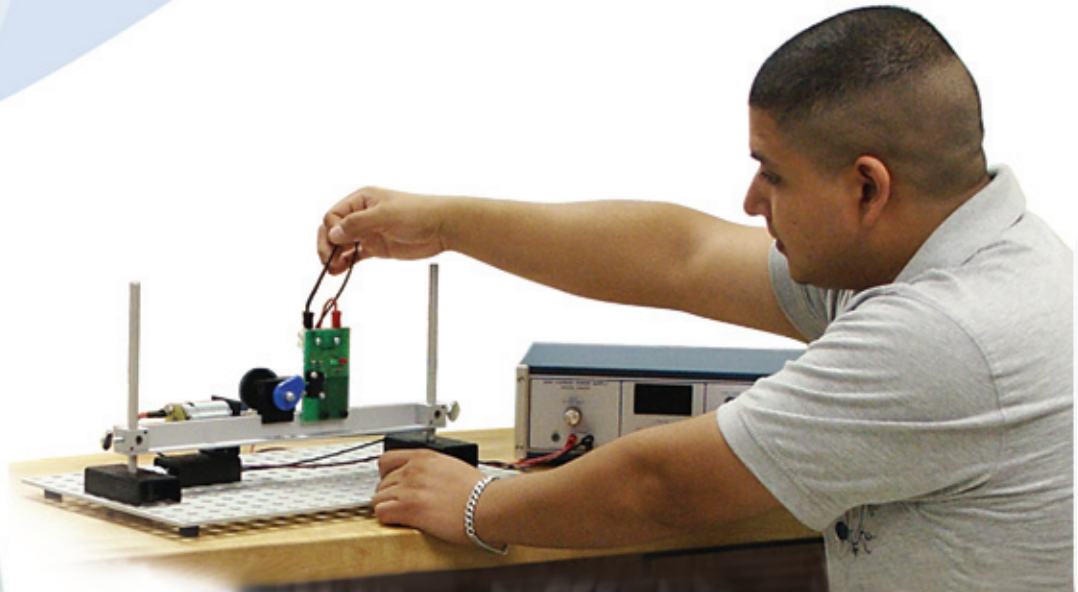


Engineering Principles

Mechanisms

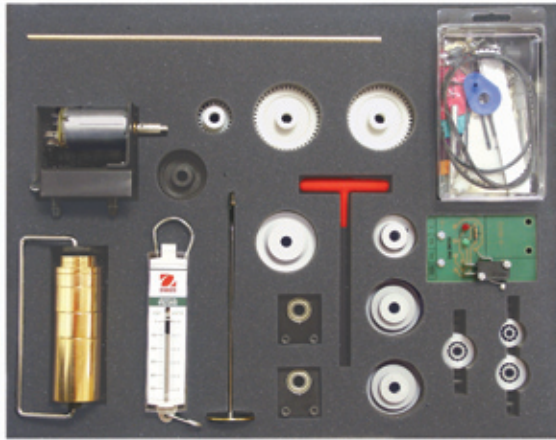
Science
Technology
Engineering
Math



Mechanisms

The **ECI Model 275S Mechanisms Trainer** is a challenging program covering basic devices and simple machines. The students use the unique support stand system to construct a variety of simple and complex mechanical circuits and apply the physics concepts used in mechanical systems. The hands-on experiments and calculations help prepare students to succeed in higher levels of study in engineering.

System Components

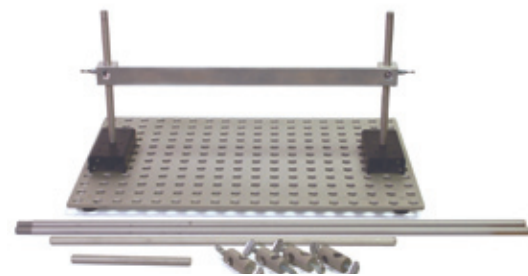


Single Pulley
Double Pulley
22T Spur Gear
45T Spur Gear (2)
24 Pitch Worm Wheel
T-Handle Wrench

Small Timing Pulley
Large Timing Pulley
Three-Step Pulley (2)
Motor, DC
CAM Switch Assembly
Spindle Mount
Assembly (2)

Spring Scale
Weight Set
Weight Hanger
Ruler
Hardware Package

Instrumentation



Support Stand Set



Digital
Tachometer

Digital
Multimeter



High Current Power Supply

The AC/DC power supply is fully protected and specifically designed to provide long life under classroom conditions. Built with rugged 20-gauge steel, it is made in the USA and backed by a 3-year warranty.

The Laboratory Manual

The Lab manual is designed to help students develop a thorough understanding of the subject matter. It is clearly written and professionally illustrated. It is printed in two-colors and comes in a quality vinyl binder.

Introduction

Safety
System Familiarization

Simple Machines

Introduction
The Lever

Pulleys

The Single Pulley
The Double Pulley

Gears

Spur Gears
Increasing Speed with Spur Gears
Worm Gears

Belts and Pulleys

Introduction
Belt and Pulley Systems

Cams

Introduction
Cams

Linkages

Introduction
Linkages



Instructor's Resource Guide

The Resource Guide includes sample data and answers to quiz questions, as well as a Student Journal CD. The journal provides a convenient way for students to enter and save their data and answers to experiment questions. The instructor can also have the students print paper copies to hand in for grading.

