Exploring Mechanisms
587583 (3342-A0)

LabVolt Series

Datasheet

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Festo Didactic
en 120 V - 60 Hz
05/2025

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General Description

The Exploring Mechanisms trainer introduces students to the world of mechanical power transmission. It comes with an operational elevator and a collection of gears, pulleys, and sprockets. It also includes the necessary equipment to study the basic principles of mechanics and simple machines.

The Exploring Mechanisms trainer comes in a practical case containing all the equipment required for installation and operation of gear trains, belt and chain drives, and pulley systems, allowing students to gain hands-on experience on common mechanisms.

The trainer, along with the included courseware, serves to teach theoretical concepts such as force, torque, work, energy, power, rotation, and tension.

Carrying Case

The Exploring Mechanism trailer is contained in a sturdy, easy-to-transport carrying case. The carrying case containing the Exploring Mechanism trailer is designed for maximal protection of the system components while still allowing easy transportation. Transport is facilitated by the sturdy wheels and telescopic handle.

The lid of the carrying case is fixed into place with durable plastic locks, but can be removed easily when performing experiments, allowing access to the components. The lid also includes a storage compartment for the leads in the system, as well as for other individual components.

The external form of the case enables multiple units of the training system to be conveniently and securely stacked one atop the other when the training system is not being used. The tight, waterproof, and sturdy case prevents damage to the equipment during prolonged storage periods.

Courseware

The courseware included in the Exploring Mechanism trainer consists of a student manual providing comprehensive theory presentations, guided, easy-to-understand lab procedures, and review questions. An instructor guide that includes both the content of the student manual as well as the results and answers to questions is also included with each system. See the Table of Contents of the Manual(s) section of this datasheet for more information on the content of the manuals.

Topic Coverage

- Force
- Torque
- Work
- Energy
- Power
- Rotation
- Tension

Features & Benefits

- Fully introduces students to many important concepts of mechanisms.
- Powered using a standard single-phase ac outlet. Control components operate at a low voltage for student safety.
- Training system enclosed in a rugged case fitted with sturdy wheels and a telescopic handle for easy transportation. The case also allows training systems to be conveniently stacked for storage.
- Comprises student and instructor manuals that provide comprehensive theory presentations, guided easy-to-understand lab procedures, and review questions.
- Complete, cost-efficient learning package
- Estimated program duration: 24 hours

List of Manuals

Description	Manual number
Mechanisms (Workbook)	588976 (20748-00)
Mechanisms (Workbook (Instructor))	588977 (20748-10)

Table of Contents of the Manual(s)

Mechanisms (Workbook) (588976 (20748-00))

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.