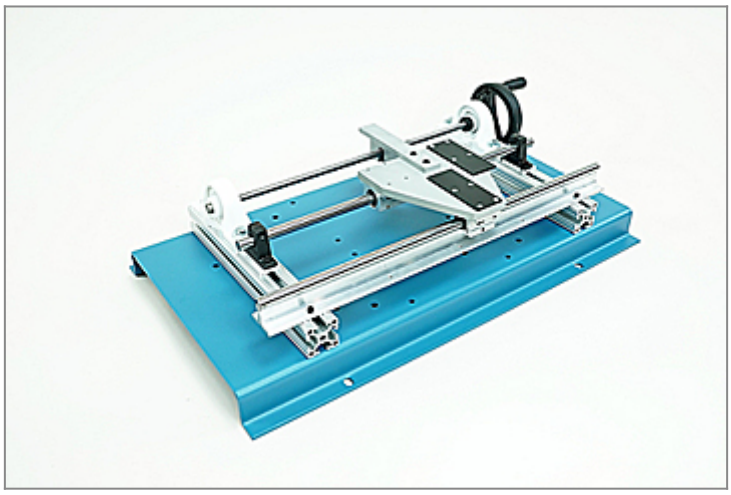
Linear Drives Training System



Model: 221-000

DAC Worldwide’s Linear Drives Training System (221-000) is a benchtop device which facilitates training in the design, function, installation, and alignment of common linear drive components. Fabricated from steel and aluminum, the training aid combines a variety of common industrial components and installation scenarios in one assembly.

This Linear Drives Training System includes two (2) ½” ground steel shafts, two (2) closed-type linear bearing blocks, one open-type linear bearing block, an aluminum sliding carriage, a 3/8” ball screw, and much more. Learners will use these components to study topics such as mechanical principles, rotary-to-linear motion drive, lubrication, and troubleshooting. This system utilizes industry-grade components, providing durability to stand up to frequent use, and to aide learners in becoming better prepared for the tasks they will encounter on the job.

Practice Hands-On Mechanical Skills for Various Applications

The Linear Drives Training System features a steel baseplate with two aluminum t-slotted mounting rails for component mounting. It also includes provisions for adjusting bearings pre-load, shimming and shaft paralleling activities, and installation of shaft seals (wipers). Learners will use these components to practice hands-on skills, such as discovering rotary input motion, mounting a robot or tooling turret, and troubleshooting position sensors.

In addition, the training system possesses elements that can be shimmed to establish level and parallel shaft conditions, allowing for various applications for converting rotary to linear motion to be demonstrated.

Expand Training with Additional Mechanical Options

The Brake Clutch Training System is only one of DAC Worldwide’s expansive mechanical training products, which also includes a Coupling/Shaft Alignment Trainer (208), a Brake Clutch Training System (220), a Chain Drive Trainer (223), and many more!

Optional Student Training Manual and CD-ROM Available

A copy of this course’s Student Training Manual and CD-ROM are available as optional learning aids with the

training system. Sourced from the Exercises and Learning Activities, the Student Training Manual takes the technical content contained in the learning objectives, and combines it into one perfectly-bound book. The CD-ROM covers 14 power transmission topics, including linear motion (PTDA). If you would like to inquire about purchasing additional Student Training Manual or CD-ROM for your program, please contact your local DAC Worldwide Representative for more information.

FEATURES & SPECIFICATIONS

- Steel baseplate with two (2) aluminum, t-slotted mounting rails for component mounting
- Two (2) 1/2" Diameter ground steel shafts with provision for mounting on t-slotted support rail and on Thompson Industries, type-SB support blocks
- Two (2) closed-type linear bearing blocks (adjustable)
- One open-type linear bearing block (adjustable)
- Provision for adjusting bearing pre-load
- Provision for shimming and shaft paralleling activities throughout
- Provision for installation of shaft seals (wipers)
- Aluminum sliding carriage, allowing for mounting of linear bearings and ball screw drive nut
- 3/8" Ball screw with adapter for demonstrating axial movement
- Drive nut with provision for mounting on sliding carriage
- Drive handle
- Allows demonstration of four rotary-to-linear motion drive arrangements
- Packaging for shipment via motor freight

PRODUCT DIMENSIONS

- **Product Dimensions**
  (L x W x H)
  24in. x 12in. x 6in. (610 x 305 x 150 mm)
  33lbs. (15kg)

- **Shipping Dimensions**
  (L x W x H)
  28in. x 15in. x 24in. (720 x 380 x 610 mm)
  55lbs. (25kg)

OPTIONS

- Recommended #902 Electromechanical Workstation
- #099-100 - CD-ROM, primer on 14 power transmission topics, including linear motion (PTDA)

- #099-P10 - Video relating to linear motion components and maintenance (IBT)
- #221-501 - Thompson Industries catalog (additional)

ACCESSORIES

- Fixture for establishing shaft parallelism and leveling (accommodates dial indicator)
- Dial indicator
- Dial indicator support fixture, low-profile
- Level
- Allen wrench set
- Combination wrench
- Shim selection
- Thompson Industries catalog

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