Brake Clutch Training System



Model: 220-PACP

DAC Worldwide’s Brake Clutch Training System (220-PACP) is a complete, motorized training package of brake and clutch-related hardware and control components. The package includes a Brake Clutch Trainer (220), a Programmable Micro-Controller Panel Assembly (220-001), a Pneumatic Supply Control and Distribution Panel Assembly (220-006), and an Abbreviated Tool Kit (330-011). An Electromechanical Bench (902) is also recommended.

Using this training system, learners will explore how brakes and clutches are used for training in various sectors, including the design, application, control, wiring, and maintenance of common industrial components. The trainer covers industry-relevant skills, such as installing, operating, and troubleshooting brakes and clutches in a variety of applications.

This basic mechanical trainer includes a dual-voltage motor, Lovejoy couplings, an electro-magnetic brake and clutch assembly, a tensioning brake assembly, and much more. Learners will use these components to study topics such as mechanical principles, seals/gaskets, 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 hands-on Brake Clutch Training System features a durable, flexible system mount, including a 7-gauge steel, control assembly support structure, electrical enclosure, instrumentation, and component mounting surface. It includes a two-pole, panel-mounted circuit breaker, emergency stop switch, two (2) Variable-DC controls, and a dedicated brake, motor, and DC control connecting cables. Learners will use these components to practice hands-on skills, such as using manual front-panel switches, connecting banana-jacks in combination with an external PLC, and troubleshooting an electro-magnetic brake and clutch assembly.

In addition, the training system features a keyed instructor power switch, as well as a modular design, which allows for additional, more personalized study of other option brake and clutch types as needed by the user.

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 Wrap-Spring Clutch Sample (#200-2203), Multiple Disc Clutch Cutaway – Pneumatic (#2000-2206), the In-Line Friction-Type Clutch Cutaway – Pneumatic (#200-2202), and many more!

Student Training Manual and Textbook Available

A copy of this course's Student Training Manual and Textbook are available for purchase 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 textbook, called *Industrial Mechanics and Maintenance*, presents clear objectives and performance standards for learners. If you would like to inquire about purchasing additional Student Training Manual or Textbooks for your program, please contact your local DAC Worldwide Representative for more information.

FEATURES & SPECIFICATIONS

- 7-Gauge, formed-steel, powder-coated baseplate
- Provisions for tabletop mounting, and mounting on related DAC, workstation and bench products.
- Aluminum T-slotted mounting rail area, allowing for attachment of motor, coupling guards, as well as standard and optional brakes and clutches
- 16-Gauge, formed-steel control assembly support structure, allowing for integration with control components
- 16-Gauge, formed-steel, electrical enclosure, with provision for attaching front panel face
- Powder-coated and epoxy silk-screened, 1/8" aluminum, front panel face
- Keyed, instructor power switch (rear of enclosure)
- Two-pole, panel-mounted, circuit breaker with provision for lock-out/tag-out
- Pilot light and emergency stop switch
- Two (2) Variable-DC controls allowing adjustment of both brake and clutch functions. (Banana jack connections allow for control and sequencing via external or optional control devices. Fused brake and clutch AC supplies with contacts for external control.)
- Dedicated brake, motor, and DC control connecting cables
- 1/3 HP Dual voltage motor assembly
- Electromagnetic brake/clutch assembly. (56-frame), with powder-coated aluminum mounting plate
- DC tensioning brake assembly
- Two (2) Jaw and spider (Lovejoy) couplings
- Two (2) Formed-polycarbonate, modular, re-positionable, coupling guards
- Provision for mounting all components on related DAC Electromechanical IntergrationBench products
- Packaging for shipment via motor freight

Package Includes:

- #220 - Brake Clutch Trainer
- #220-001 - Programmable Micro-Controller Panel Assembly
- #220-006 - Pneumatic Supply Control and Distribution Panel Assembly
- #330-011 - Abbreviated Toolkit

PRODUCT DIMENSIONS

- **Product Dimensions**
  Product Dimensions: (L x W x H)
  47.5in x 13.5in x 25in (1207 x 343 x 635 mm)
  148 lbs (67 kg)

- **Shipping Dimensions**
  Shipping Dimensions: (L x W x H)
  50in x 15in x 40in (1270 x 381 x635 mm)
  217 lbs. (98 kg)

OPTIONS

- #200-2202 - In-Line Friction-Type Clutch Cutaway, Pneumatic
- #514-002 - Textbook, *Industrial Mechanics and Maintenance, 3rd Ed.*
- #560-000 - Electrical Trades Training Manual (IPT)
- #560-001 - Electrical Trades Handbook (IPT)
- #902 - Electromechanical Workstation
- #220-002 - Electro-Mechanical Drum Brake Assembly
- #220-003 - Magnetic Particle Brake Assembly, Modulatable
- #220-005 - Electro-Hydraulic Thruster-Brake Assembly
- #220-010 - Fluid Drive Assembly
- #410-001 - Portable Digital Multimeter
- #410-002 - Non-Contact Tachometer
- #410-100 - Prony Brake Assembly

SERVICE REQUIREMENTS

- 100-240 VAC
- 50/60 Hz, single-phase

Address

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Contacts

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