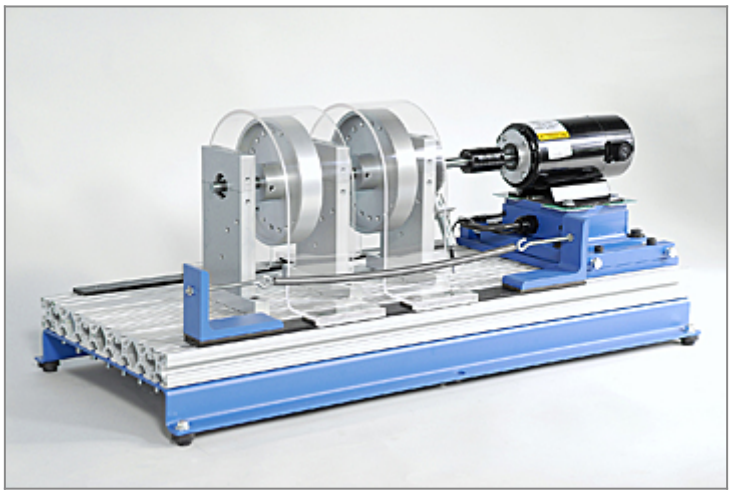
Vibration Analysis Training System



Model: 203-000

DAC Worldwide’s Vibration Analysis Training System (203-000) is a heavy-duty learning package that allows for in-depth training in vibration analysis, using a vibration meter, gear/belt drives, and bearing faults. Through the use of internally gauged studs and associated instrumentation, the Vibration Analysis Training System demonstrates the cause and effects of vibration in industrial rotating machinery.

Using the Vibration Analysis Training System, learners will gain experience on a versatile, precision-machined device that allows for isolation of individual, vibration-causing variables in order to demonstrate their individual signatures. Learners will use the demonstrator’s industrial-grade components to study topics such as effects of frequency/displacement, proper pick-up mounting, correcting vibrations caused by imbalance and misalignment, and more. Not only do the components provide durability to stand up to frequent use, but they also aide learners in becoming better prepared for the tasks they will encounter on the job.

This training package includes an assortment of rotors, gears, and bearings, which allow for a variety of hands-on exercises. The trainer also provides skill-building for industry-relevant tasks, like single-phase balancing, performing the four-run method, and how to align for center-to-center variation.

Practice Hands-On Mechanical Skills for Various Applications

Working as the center piece of this training package, DAC Worldwide’s Vibration Analysis Training System features a heavy-duty steel sub-based with adjustable feet. It includes a 1/3 HP three-phase AC Motor, three (3) precision-machined split pillow blocks, two (2) 6-inch rotors, three (3) ½-inch diameter shafts, a Digital RPM Indicator, and an Instructor Key Switch. It also comes with an Allen wrench and combination wrench set, a weight/washer set, and a resonance demonstration kit.

Expand Training with Additional Mechanical Options

The Vibration Analysis Training System is only one of DAC Worldwide’s Vibration Analysis mechanical training systems, which also includes an Extended Vibration Analysis Demonstrator (203E). Other mechanical demonstrators include the Fan Balancing Demonstrator (202-000), the Reciprocating Compressor Dissectible Trainer (211-000), Motorized Multi-Turn Valve Actuator Trainer (212-000), and many more!

Student Training Manual and Textbook

A copy of this course's Student Training Manual and Textbook are included 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 *IPT Rotating Equipment*, 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

- 1/3 HP, 3450 RPM, inverter-duty, 3-phase, AC motor
- SCR speed control
- Digital RPM indicator with magnetic pick-up
- Heavy-duty, formed-steel sub-base with adjustable feet
- Three (3) precision-machined split pillow blocks, allowing for bearing removal
- Two 6" precision-machined rotors, allowing for single plane, dual plane and overhung balancing
- Provision for creating rotor imbalance using set screws/washers or clay on inner rotor rim
- Three ½" diameter, precision-ground shafts, which allows for re-configuration
- Precision, helical beam coupling *(Other coupling types available as options)*
- Provision for attachment of vibration pick-ups via 1/4-28 threaded studs
- Steel top-surface mounting bars allowing for attachment of accessories, and modular guards
- Instructor key switch
- Motor mounting sub-base with tapered alignment pins, allowing for ease of alignment/mis-alignment
- T-slotted aluminum mounting surface allowing for convenient reconfiguration, and attachment of optional accessories
- Motor jacking bolts
- High-durability powder-coated and anodized surfaces throughout
- Modular polycarbonate guards
- Packaging for shipment via motor freight

PRODUCT DIMENSIONS **Product Dimensions**

(L x W x H)
13.5" x 30" x 13" (343 x 762 x 330 mm)

Shipping Dimensions

(L x W x H)
41" x 37" x 32" (1041 x 940 x 813 mm)
168 lbs (76 kg)

OPTIONS

- #203-002 - Belt Drive Gear Accessory
- #203-003 - Basic Vibration Meter
- #203-012 - Resonance and Elastic Shaft Kit
- #203-015 - Supplemental Coupling Kit
- #203-019 - Mechanical Rub Kit
- #208-001 - Shaft Alignment Tool Kit
- #208-003 - Standard Shim Kit
- #208-015 - Magnetic Base/Dial Indicator Set
- #570-000 - IPT Rotating Equipment Training Manual
- #570-001 - IPT Rotating Equipment Handbook
- #902F - Electromechanical Workstation
- #203-011 - Eccentric/Cocked Rotor Kit
- #203-013 - Replacement Bent Shaft Kit
- #203-025 - Load/Brake Device Accessory, Mechanical
- #203-500 - Use/Exercise Guide (Additional)
- #208-002 - Economy Shim Kit (plastic)

UTILITIES 115V/60Hz/1Ph power

Address

DAC Worldwide
3 Killdeer Court, Suite #301
Swedesboro, NJ 08085

Contacts

email: contact@dacworldwide.com
phone: (800) 662 5877