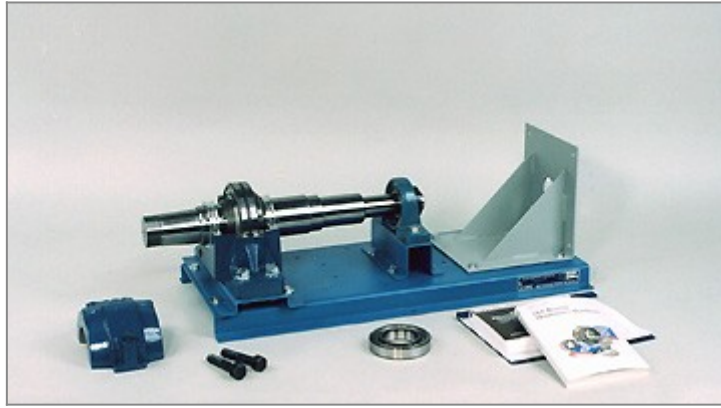


# Advanced Bearing Maintenance Trainer



Model: 204E-000

DAC Worldwide's Advanced Bearing Maintenance Trainer (204E-000) is a realistic, heavy-duty learning aide that allows for convenient and consistent training in the identification, installation, and removal of a variety of industrial-quality rolling element bearings. When paired with a variety of hands-on exercises, the training system creates a complete performance-based course in the maintenance of industrial bearings.

The Advanced Bearing Maintenance Trainer contains two student workstations, with training available at both ends of the device. Packaged with a selection of large diameter spherical roller bearings, radial ball bearing, angular contact bearings, and cylindrical roller bearings, this learning system offers a complete training experience in this fundamental industrial bearing maintenance. This system includes a fifth shaft and pillow block mounts that are not included with the 204-000. Learners will use these industrial-grade components to study topics such as types of rolling element bearings, cold mounting and removal of radial ball bearings, installation of shaft seals, 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.

## **Practice Hands-On Mechanical Skills for Various Applications**

The Advanced Bearing Maintenance Trainer features a 30-inch long formed-steel baseplate with provision for tabletop mounting. It includes four (4) steel-shaft mounting brackets, which allows for mounting of shafts in different orientations. It also comes with four (4) high-grade alloy steel CNC-machined stub shafts for installation of all bearings, and provisions for both radial ball and cylindrical roller bearing installation.

## **Courseware Takes Learning to the Next Level**

In addition to hands-on training, DAC Worldwide's Advanced Bearing Maintenance Trainer comes with courseware, which is useful in both an instructor-led or self-directed format. The courseware includes a textbook with chapters on rolling element bearings and friction bearings, as well as seventeen (17) illustrated, hands-on exercises. Some of the exercises include mounting/dismounting of spherical roller bearings, installation of pillow block bearings, hydraulic mounting/dismounting, and much more!

## **Expand Training with Additional Mechanical Options**

The Advanced Bearing Maintenance Trainer is only one of DAC Worldwide's expansive mechanical training

products. Other related equipment includes a Spherical Roller Bearing Pillow Block Assembly Cutaway (200-2045); a Gear Maintenance Trainer (205-000); and more!

### **Student Training Manual Available To Enhance Learning**

A copy of this course's Student Training Manual and Textbook is available 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. If you would like to inquire about purchasing additional Student Training Manuals for your program, please contact your local DAC Worldwide Representative for more information.

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### **FEATURES & SPECIFICATIONS**

- Allows for two student workstations
- Requires 204-001 Tool Kit
- CNC-machined, 24" long, multi-land shaft
- Large-diameter spherical roller bearing pillow block and radial ball bearing pillow block for mounting on land shaft
- 7-Gauge, formed-steel baseplate, 30" long, allowing for mounting across the width of a standard shop bench
- Four (4) steel shaft mounting brackets which, when used in combination, allow for mounting of shafts in different orientations
- Four (4) high-grade alloy steel CNC-machined stub shafts allowing for installation of all bearings
- Provision for installation of radial ball bearings and cylindrical roller bearings with loose and interference-fit applications
- Provision for installation of spherical roller bearings on a tapered shaft, adapter sleeve and withdrawal sleeve. *(Includes two different internal clearance calculations.)*
- Provision for installation of a radial ball bearing in an externally-seated application
- Provision for bearing removal using a gear puller on a back-up gear
- Eight (8) bearing types for mounting on stub shafts
- Shaft seal application
- High-durability, powder coated surfaces throughout
- Combination wrenches
- Allen wrench set
- Use/Exercise Guide
- Industrial Trades Training Manual (IPT)

- Reference book on bearing maintenance (SKF)

**PRODUCT DIMENSIONS** **DISCLAIMER:** *Product Dimensions are approximate. Shipping Dimensions and Weights are for directional use only and may change based on manufacturer variables. For the most accurate Shipping Dimensions and Weights, please contact the manufacturer.*

- **Product Dimensions**

(L x W x H)

30" x 13 1/2" x 12" (750 x 330 x 300 mm)

170lbs. (77kg)

- **Shipping Dimensions**

(L x W x H)

34" x 15" x 24" (870 x 380 x 610 mm)

290 lbs. (132 kg)

## **OPTIONS**

- #099-00S - 6-Topic Power Transmission Installation and Maintenance Training DVD (IBT)
- #204-004 - Extended Bearing Fitting Tool Kit
- #510-000 - IPT Industrial Trades Training Manual
- #510-001 - IPT Industrial Trades Handbook
- #835 - Bearing Sample Board
- #902F - Electromechanical Workstation
- #204-006 - Hydraulic Installation/Removal Option
- #204-500 - Use/Exercise Guide (additional)
- #204-001 - Toolkit
- #204-002 - Bearing Heater
- #204-005 - Bearing Inner Race Puller Tool

**COURSE CONTENT** The courseware, useful in both an instructor-led or self-directed format, includes a textbook with chapters on rolling element bearings and friction bearings, and seventeen, illustrated, hands-on exercises.

### **Exercises include:**

- Introduction to rolling element bearing construction and terminology
- Introduction to rolling element bearing types
- Introduction to bearing identification systems
- Introduction to bearing clearances and fits
- Bearing maintenance pre-checks

- Cold mounting and removal of radial ball bearings
- Mounting and dismounting of radial ball bearings with interference fits
- Installing and dismounting a radial ball bearing with a back-up gear
- Installing and dismounting angular contact bearings
- Mounting and dismounting of spherical roller bearings on a tapered shaft
- Mounting and dismounting of spherical roller bearings on a tapered sleeve
- Mounting of spherical roller bearings on a withdrawal sleeve
- Installation of pillow block bearings
- Installation of externally seated radial ball bearings
- Installation of cylindrical roller bearings using an arbor press
- Installation of shaft seals
- Hydraulic mounting and dismounting of tapered bore bearings (supplemental)

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