Bearing Maintenance Training System

Model: 204-000

DAC Worldwide’s Bearing Maintenance Training System (204-000) is a heavy-duty learning package that allows for in-depth training in the identification, installation, and removal of a variety of industrial-quality rolling element bearings.

With the Bearing Maintenance Training System, learners will gain experience on a realistic, heavy-duty device that provides for two student workstations. Using two of the four CNC-machined stub shafts provided, in combination with the shaft mounting brackets, student training can take place at both ends of the device.

The trainer requires the #204-001 Bearing Maintenance Tool Kit. It also includes four steel shaft mounting brackets, four steel stub shafts, eight ball bearing types, #510-000 Industrial Trades Training Manual, and #204-500 Use/Exercise Guide.

Learners will use the trainer’s industrial-grade components to study topics such as bearing identification systems, rolling element bearing construction, bearing maintenance pre-check, 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.

The trainer includes an assortment of gears, and bearings, which allow for a variety of hands-on exercises. It also provides skill-building for industry-relevant tasks, like mounting radial ball bearings, installing angular contact bearings, hydraulic mounting, and much more.

Practice Hands-On Mechanical Skills for Various Applications

DAC Worldwide’s Bearing Maintenance Training System features a 7-gauge steel baseplate with provision for mounting across the width of a standard shop bench. A selection of large diameter spherical roller bearings, radial ball bearings, angular contact bearings, cylindrical roller bearings, a needle bearing, and shaft seals are provided. Additionally, “loose” and “interference” fit bearing seating locations are provided. The trainer also includes an Allen wrench and combination wrench set.

Expand Training with Additional Mechanical Options

The Bearing Maintenance Training System can be added to a variety of other DAC Worldwide mechanical training systems to greatly expand training options. See the OPTIONS tab below for the available options for this product.

Courseware & Hands-On Exercises

The Bearing Maintenance Training System’s courseware consists of an Industrial Trades Training Manual with chapters on rolling element bearings and friction bearings, a reference book on bearing maintenance, and a user’s guide with hands-on exercises. These can be used as part of either an instructor-led course or self-directed study.

Learners will explore a wide variety of fundamental topics relevant to bearings, including: rolling element bearing types, construction, and terminology; bearing identification systems; 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, tapered sleeve, or 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; and hydraulic mounting and dismounting of tapered bore bearings.

FEATURES & SPECIFICATIONS

- 7-gauge, formed-steel baseplate, 30" long, allowing for mounting across the width of a standard shop bench.
- Four steel shaft mounting brackets which, when used in combination, allow for mounting of shafts in different orientations.
- Four 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 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)
  30in. x 13.5in. x 12in. (750 x 340 x 300 mm)
  125lbs. (57kg)

- **Shipping Dimensions**
  (L x W x H)
  34in. x 15in. x 24in. (870 x 380 x 610 mm)
  200lbs. (91kg)

OPTIONS

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

CONTENT Learners will explore a wide variety of fundamental topics relevant to bearings, including:

- Rolling element bearing types, construction, and terminology
- Bearing identification systems
- 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, tapered sleeve, or 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.

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