

204E Bearing Maintenance Trainer, Extended



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)

FEATURES AND 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.
- CNC-machined, 24" long, multi-land shaft.
- 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.
- Large-diameter spherical roller bearing pillow block and radial ball bearing pillow block for mounting on the multi-land shaft.
- Shaft seal application.
- Can be mounted on related bench and workstation products.
- High-durability, powder coated surfaces throughout.

SERVICE REQUIREMENTS

GENERAL DESCRIPTION

A realistic, heavy-duty device allowing for convenient and consistent training in the identification, installation and removal of a variety of industrial-quality rolling element bearings.

The device provides for two student workstations. Using two of four CNC-machined stub shafts provided, in combination with shaft mounting brackets, training can take place at both ends of the device. A 24in. long, multi-land shaft with two pillow blocks is also provided.

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 device, together with a variety of hands-on exercises, creates a complete performance-based course in the maintenance of industrial bearings.

OPTIONS

- [#099-005 - 6-Topic Power Transmission Installation and Maintenance Training DVD \(IBT\)](#)
- [#204-001 - Bearing Maintenance Toolkit](#)
- [#204-002 - Bearing Heater, Cone-type](#)
- [#204-004 - Extended Bearing Fitting Tool Kit](#)
- [#204-005 - Bearing Inner Race Puller Tool](#)
- [#510-000 - IPT Industrial Trades Training Manual](#)
- [#510-001 - IPT Industrial Trades Handbook](#)
- [#835 - Bearing Sample Board](#)
- [#835-PAC - Bearing Sample Board, Quick-Start Package](#)
- [#902 - Electromechanical Workstation](#)
- #030-024 - CD-ROM, titled, "Ball Bearing Maintenance and Installation" (Majec).
- #030-025 - CD-ROM, titled, "Spherical Roller Bearing Installation and Maintenance" (Majec).
- #204-003 - Bearing interchange/nomenclature wall charts.
- #204-006 - Hydraulic Installation/Removal Option
- #204-500 - Use/Exercise Guide (additional).
- #204E-PAC - Bearing Maintenance Trainer, Quick-Start Package, including: #204E, #204-001, #204-002, #204-005

RELATED ITEMS

- [#200-2045 - Spherical Roller Bearing Pillow Block Assembly Cutaway](#)
- [#204 - Bearing Maintenance Trainer, Basic](#)

STANDARD ACCESSORIES

* Combination wrenches. * Allen wrench set. * Use/Exercise Guide * Industrial Trades Training Manual (IPT). * Reference

None

book on bearing maintenance (SKF).

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).

DAC assumes no liability for injury resulting in the use or misuse of this product.

In accordance with DAC's established policy of continuous improvement, these specifications and product descriptions are subject to change without notice. This information is the latest technical information as of the time of viewing or printing.