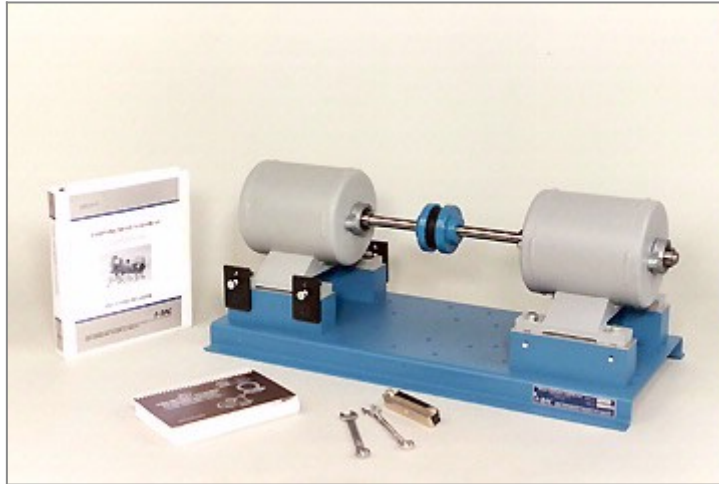


# Basic Coupling/Shaft Alignment Trainer



Model: 208D-000

DAC Worldwide's Basic Coupling/Shaft Alignment Trainer (208D-000) is a heavy-duty, precision learning aide that allows for convenient, realistic training in shaft alignment. The Basic Coupling/Shaft Alignment Trainer is designed based on the dimensions of a common ANSI centrifugal pump, and allows for training using all common alignment techniques and tools. With each element having adjustment capabilities to create unique alignment problems, this learning system offers a complete training experience in this fundamental industrial bearing maintenance.

The trainer requires the following components:

- #208-001 - Tool Kit, Shaft Alignment
- #208-015 - Magnetic Base/Dial Indicator Set

Learners will use industrial-grade components to study topics such as using a dial indicator in coupling/shaft alignment, coupling alignment using the reverse dial indicator method, fabrication of shaft keys, and installing a flexible disc coupling. 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 Basic Coupling/Shaft Alignment Trainer features a heavy-duty, 7-gauge steel baseplate with provision for tabletop mounting. It includes flanged bearings, fasteners, shafts, and  $\frac{3}{4}$ " diameter shafting with keyways. It also comes with four (4) steel pads, an Allen wrench set, combination wrenches, and more.

All fasteners are easily accessible and replaceable, and the system requires a minimal number of hand tools. Flanged bearing allow changes in angular and parallel misalignment, and motor attachment points include steel threaded inserts. Replaceable shafts and bent shafts are easily installed.

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

In addition to hands-on training, DAC Worldwide's Basic Coupling/Shaft Alignment Trainer comes with courseware, which is useful in both an instructor-led or self-directed format. The courseware includes a textbook with chapters on coupling and alignment techniques, as well as twenty (20) illustrated, hands-on exercises. Some of the exercises locating and correcting soft foot, assembling a chain-type coupling, installing a universal joint coupling, and much more!

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

The Basic Coupling/Shaft Alignment Trainer is only one of DAC Worldwide's expansive mechanical training systems. Other related equipment includes a Belt Drive Training System (201-000), a Coupling/Shaft Alignment Trainer (208-000), a Gear Maintenance Training System (205-000), and many more!

## **Student Training Manual and Textbook Available**

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 Activity Guide 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 Activity Guides for your program, please contact your local DAC Worldwide Representative for more information.

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## **FEATURES & SPECIFICATIONS**

- 7-Gauge, formed-steel baseplate.
- Heavy-duty, welded aluminum driver and driven elements.
- Allows for alignment using all common methods and alignment tools.
- Multiple "motor" positions allow for use of many coupling types.
- Dimensions based on a common ANSI centrifugal pump.
- Rigid construction allows alignment to .001".
- Requires a minimal number of hand tools.
- Flanged bearings allow changes in angular and parallel misalignment.
- All fasteners easily accessible and replaceable.
- Motor attachment points include steel threaded inserts.
- Replaceable shafts. Bent shafts are easily installed.
- 3/4" Diameter shafting with keyways.
- Uses size "A" shims.
- High-durability, powder-coated surfaces allow for repeated use and rough handling.

- Can be used with or without jacking bolts.
- All components can be mounted on related bench and workstation products.
- Packaging for shipment via motor freight.

**CONTENT** The courseware, useful in both an instructor-led or self-directed format, includes a textbook with chapters on couplings and alignment technique, and twenty, illustrated, hands-on exercises.

**Exercises Include:**

- Exercise 208-S01 - Introduction to Coupling/Shaft Alignment Terminology and Theory
- Exercise 208-S02 - Use of a Dial Indicator in Coupling/Shaft Alignment
- Exercise 208-S03 - Coupling Alignment Pre-Checks
- Exercise 208-S04 - Locating and Correcting Soft Foot
- Exercise 208-S05 - Calculating and Correcting for Bar Sag
- Exercise 208-S06 - Coupling Alignment Using a Straightedge and Thickness Gage
- Exercise 208-S07 - Coupling Alignment Using the Rim and Face Method
- Exercise 208-S08 - Using Graphical Solution Techniques With the Rim and Face Method
- Exercise 208-S10 - Coupling Alignment Using The Reverse Dial Indicator Method (Two Dials)
- Exercise 208-S11 - Using Graphical Solution Techniques With the Reverse Dial Indicator Method
- Exercise 208-S12 - Coupling Alignment Using The Reverse Dial Indicator Method (One Dial)
- Exercise 208-S13 - Considering Thermal Growth in Shaft Alignment
- Exercise 208-S50 - Inspection and Installation of Shafts and Keyways
- Exercise 208-S51 - Fabrication and Installation of Shaft Keys
- Exercise 208-S53 - Assembling and Installing a Chain-Type Coupling
- Exercise 208-S57 - Assembling and Installing a Jaw and Spider Coupling
- Exercise 208-S58 - Assembling and Installing an Elastomeric Element Coupling
- Exercise 208-S60 - Assembling and Installing a Flexible Disc Coupling
- Exercise 208-S61 - Assembling and Installing a Steel Grid Coupling
- Exercise 208-S62 - Assembling and Installing a Universal Joint Coupling

**ACCESSORIES**

- Four steel pads for use with jacking bolts.

- Allen wrench set.
- Combination wrenches.
- Industrial Trades Training Manual (IPT).
- Use/Exercise Guide with 20 hands-on exercises.

## **PRODUCT DIMENSIONS**

- **Product Dimensions**  
(L x W x H)  
30in. x 13in. x 16in. (760 x 330 x 400 mm)  
45lbs. (20kg)
- **Shipping Dimensions**  
(L x W x H)  
34in. x 15in. x 24in. (870 x 380 x 610 mm)  
93lbs. (48kg)

## **OPTIONS**

- Recommended #902F - Electromechanical Workstation
- #208-001 - Tool Kit, Shaft Alignment
- #208-003 - Standard Shim Kit
- #208-004 - Extended Shim Kit
- #208-005 - Steel Grid Coupling, Coupling/Shaft Alignment
- #208-006 - Thomas Flexible Disk Coupling, Coupling/Shaft Alignment
- #208-007 - Elastomeric Element Coupling, Coupling/Shaft Alignment
- #208-012 - Chain Coupling, Coupling/Shaft Alignment
- #208-013 - Universal Joint Coupling
- #208-014 - Jaw and Spider Coupling, Coupling/Shaft Alignment
- #208-020D - Basic Laser Alignment System
- #510-000 - Industrial Trades Manual (IPT)
- #510-001 - Industrial Trades Handbook (IPT)

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