

Basic Coupling/Shaft Alignment Training System Plus



Model: 208D-PAC

DAC Worldwide's Basic Coupling/Shaft Alignment Training System Plus (208D-PAC) is a heavy-duty, precision learning package that allows for convenient, realistic training in shaft alignment. When paired with a variety of hands-on exercises, the training system creates a complete performance-based course in the maintenance of shaft alignment. The package includes:

- Basic Coupling/Shaft Alignment Trainer (208D-000)
- Tool Kit, Shaft Alignment (208-001)
- Standard Shim Kit (208-003)
- Steel Grid Coupling, Coupling/Shaft Alignment (208-005)
- Elastomeric Element Coupling, Coupling/Shaft Alignment (208-007)
- Jaw and Spider Coupling, Coupling/Shaft Alignment (208-014)
- Magnetic Base/Dial Indicator Set (208-015)

The Basic Coupling/Shaft Alignment Training System Plus has a design based on the configuration found in many vertical centrifugal pumps, and accommodates all types of alignment apparatus, including laser systems. Through its realistic features and versatility, this lightweight, yet rigid training fixture will make any training session more productive, convenient, and professional. Learners will use industrial-grade components to study topics such as performing a four-point motor element jacking, mastering usage of a dial indicator in coupling/shaft alignment, troubleshooting angular and parallel misalignment, and installing a flexible disc coupling. Not only do the components provide durability to stand up to frequent use, but they also aid 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 steel baseplate with provision for tabletop mounting. It requires a minimal number of tools, and its rigid construction allows for alignment within .001". It also comes with four (4) steel pads, an Allen wrench set, combination wrenches, and more.

The Tool Kit, Shaft Alignment comes with two (2) CNC-machined shaft bracket sets, two (2) sets of clamp attachment studs, four (4) dial indicator support bars, four (4) dial indicator attachment bars, four (4) swivel clamps, two (2) Starrett universal dial test indicators, and many more useful tools to aid in industrial training. The Standard Shim Kit includes ten (10) shims each – of 13 different thicknesses – each accurate within +/- .001". Made of durable, corrosion-resistant stainless steel that is permanently marked with both nominal thickness and actual thickness information, the kit is perfect for use in the training lab or by the working maintenance professional in the field.

To round out the training package, students will use a Magnetic Base/Dial Indicator Set, a Steel Grid Coupling, an Elastomeric Element Coupling, and a Jaw and Spider Coupling for authentic hands-on learning using equipment encountered on the job.

Expand Training with Additional Mechanical Options

The Basic Coupling/Shaft Alignment Training System Plus is only one of DAC Worldwide's expansive mechanical training systems. Other related equipment includes a 3-Component Coupling Shaft Alignment Training System (206-000), a Vertical Coupling Shaft Alignment Trainer (207-000), and many more!

Student Training Manual Included With Package

A copy of this course's Student Training Manual 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.

FEATURES & SPECIFICATIONS

- Basic Coupling/Shaft Alignment Trainer (208D-000)
- Tool Kit, Shaft Alignment (208-001)
- Standard Shim Kit (208-003)
- Steel Grid Coupling, Coupling/Shaft Alignment (208-005)
- Elastomeric Element Coupling, Coupling/Shaft Alignment (208-007)
- Jaw and Spider Coupling, Coupling/Shaft Alignment (208-014)
- Magnetic Base/Dial Indicator Set (208-015)

- 7-Gauge, formed-steel baseplate.
- Heavy-duty, welded aluminum driver and driven elements.
- Allows for alignment using all common methods and alignment tools.
- 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 DAC 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 (4) 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 ***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 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
- #208-004 - Extended Shim Kit
- #208-006 - Thomas Flexible Disk Coupling, Coupling/Shaft Alignment

- #208-012 - Chain Coupling, Coupling/Shaft Alignment
- #208-013 - Universal Joint Coupling
- #208-020D - Basic Laser Alignment System
- #510-000 - Industrial Trades Manual (IPT)
- #510-001 - IPT Industrial Trades Handbook (IPT)

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