

# Gear Maintenance Training System



Model: 205-000

Basic mechanical maintenance skills are fundamental throughout advanced manufacturing and industries from pharmaceutical and automotive to power and energy and agriculture. For example, industrial maintenance technicians must possess essential knowledge and skills to install, align, troubleshoot, and repair a wide variety of gears, shafts, and bearings.

DAC Worldwide's Gear Maintenance Training System (205-000) features a diverse selection of industrial-quality gears, shafts, and bearings that can be used in a variety of configurations. Learners will benefit from convenient hands-on training in gear identification, installation, alignment, and troubleshooting.

The trainer requires the #205-001 Tool Kit and #208-015 Magnetic Base/Dial Indicator Set. It also includes the following: gear box, seven custom bearing housings, two flanged bearing units, gear sets, tapered roller and radial ball bearings, tool kit, #510-000 IPT Industrial Trades Training Manual, and #205-500 Use/Exercise Guide.

The CNC-machined gear box is made of welded aluminum and allows learners to mount and shim tapered roller bearings using several different bearing housing types. This heavy-duty training system will improve learners' maintenance skills and increase their understanding of precision gearing.

## **Industry-Standard Components Provide Realistic, Hands-On Training**

Technical training is most effective when learners can gain hands-on practice with industry-standard components they'll encounter on the job. The Gear Maintenance Trainer features a variety of common, industrial-quality components to provide learners with a realistic training experience that will build skills that translate easily to the workplace.

The Gear Maintenance Trainer features a variety of industrial-quality components, such as: welded aluminum gear box; custom bearing housings; flanged bearing units; spur gears; helical gears; worm gears; bevel (miter) gears; tapered roller bearings; radial ball bearings; shafting with keyways and keys; handle for illustrating thrust and establishing wear patterns; steel bracket for mounting a dial indicator; and steel baseplate.

## **Courseware & Hands-On Exercises**

The Gear Maintenance Trainer's courseware consists of an Industrial Trades Training Manual with a chapter on gearing 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 gears, shafts, and bearings, including: gear components and terminology; parallel shaft gearing; spur gears and measurement of backlash; tapered roller bearings; helical gearing; 90-degree shaft gearing; bevel gears; cross shaft gearing; worm gears; and planetary gearing.

### **Expand Training Capabilities with Custom Options**

The Gear Maintenance Trainer can be customized with a variety of options to create a training system that matches a particular industry's or user's specific needs. In industry, one size rarely fits all and this trainer can be tailor-made to your exact needs.

For example, available training options can be expanded by including one or more of the following options: gear sample board; cams and mechanisms accessory; and an electromechanical workstation. See the **OPTIONS** tab below for more information about available options for this product.

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### **FEATURES & SPECIFICATIONS**

- 7-gauge, formed-steel baseplate with provision for tabletop mounting.
- Welded aluminum gear box, allowing for installation of all supplied gear sets.
- Seven custom bearing housings allowing for installation and shimming (internal and external) of tapered roller bearing sets.
- Two additional flanged bearing units for open gearing application.
- Gear sets, including spur gears, helical gears, worm/worm gear, and bevel (miter) gears. Gear sets include different pitches, ratios, pressure angles, and pitch diameters.
- Bearings, including tapered roller bearings and radial ball bearings.
- Shafting with keyways and keys.
- Handle for illustrating thrust and establishing wear patterns.
- Steel bracket for mounting dial indicator for backlash measurements.
- High-durability, powder-coated surfaces throughout.
- Can be mounted on related bench and workstation products.
- Provision for mounting #222 Cams and Mechanisms Accessory.
- Acrylic gear sample.
- Additional key stock.
- Shim stock.

- Prussian blue.
- Combination wrenches.
- Allen wrench set.
- Industrial Trades Training Manual with 53-page section on gears (IPT).
- Use/Exercise Guide with ten hands-on exercises.
- Crating for shipment via motor freight.

## **PRODUCT DIMENSIONS**

- **Product Dimensions**

(L x W x H)

13in. x 24in. x 14in. (330 x 600 x 350 mm)

55lbs. (25kg)

- **Shipping Dimensions**

(L x W x H)

15in x 28in x 24in ( 381 x 711 x 609mm)

150lbs. (68kg)

## **OPTIONS**

- Recommended #902F - Electromechanical Workstation
- #205-001 - Gear Maintenance Tool Kit (required)
- #208-015 - Magnetic Base/Dial Indicator Set (required)
- #510-000 - IPT Industrial Trades Training Manual
- #510-001 - IPT Industrial Trades Handbook
- #836-PAC - Gear Sample Board, Quick-Start Package
- #205-500 - Use/Exercise Guide (additional)
- [#205-PAC - Gear Maintenance Training System Plus](#)

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