

# Flange Bolt Torquing Trainer



Model: 225-000

DAC Worldwide's Flange Bolt Torquing Trainer (225-000) is a heavy-duty learning aid that allows for in-depth training in bolted joint torquing, gasket selection/usage, and torque wrench usage. Through the use of internally gauged studs and associated instrumentation, the trainer allows learners to see "scatter" resulting from errors, like improper torquing procedures, improper fastener care, lubrication variables, and gasket variations.

Using this trainer, learners will explore the usage and torque of many common industrial components, such as bolted joints, flanges, wrenches, and gaskets. Learners will use these industrial-grade components to study topics such as mechanical principles, alternate seals/gaskets, lubrication, and maintenance. 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.

This basic mechanical training system includes an assortment of gasket types, gasket adapter plates, and lubricants, which allow for a variety of hands-on exercises. The trainer also provides skill-building for industry-relevant tasks, like creating a flanged pipe joint, fabricating flange gaskets, and how to make a flanged pipe joint using a full-face gasket, an o-ring, and spiral wound gaskets.

## **Practice Hands-On Mechanical Skills for Various Applications**

This Flange Bolt Torquing Trainer features a floor-mounted, all-steel fixture, equipped with aluminum-machined inserts for component storage. It includes sixteen (16) "raised face" synthetic gaskets, eight (8) "full face" synthetic gaskets, eight (8) Flexitallic gaskets, four (4) o-rings, and a drive socket. It also comes with an eight-channel signal conditioner/amplifier/digital readout assembly, with provisions for re-calibration.

Learners will use these components to practice hands-on skills, such as using torque wrenches, understanding torque scatter in bolted joints, preparing to create a correct flanged pipe joint, and understanding alternate gasket types.

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

The Flange Bolt Torquing Trainer is only one of DAC Worldwide's expansive mechanical training products, including a Flange Bolt Torquing Fixture Set (#226), a Mobile Mounting Platform (#225-010), a Gasket Fabrication Activity Kit (225-003), and many more!

## **Student Training Manual and Textbook Enhances Industrial Learning**

A copy of this course's Student Training Manual and Textbook are included 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. The textbook, called *IPT Industrial Fasteners*, presents clear objectives and performance standards for learners. If you would like to inquire about purchasing additional Student Training Manuals or Textbooks for your program, please contact your local DAC Worldwide Representative for more information.

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### **FEATURES & SPECIFICATIONS**

- Floor-mounted, all-steel fixture including 8" schedule 40 pipe pedestal, baseplate, 150 lb., raised-face flange and raised-face blind flange
- Aluminum machined inserts with provision for flat-face flange, Flexitallic gasket, and o-ring applications
- Additional 150 lb., flat-face blind flange
- Eight (8) internally-gauged, "full bridge", 3/4" - 10 studs with nuts
- Eight-channel signal conditioner/amplifier/digital readout assembly with provision for re-calibration
- Rolling cart
- High-durability, powder coated surfaces throughout
- Packaging for shipment via motor freight

### **PRODUCT DIMENSIONS**

- **Product Dimensions**  
(L x W x H)  
14in. x 14in. x 41in. (350 x 350 x 1040 mm)  
290lbs. (132kg), excluding cart.
- **Shipping Dimensions**  
(L x W x H)  
23in. x 31in. x 48in. (590 x 790 x 1220 mm)  
468lbs. (212kg)

### **OPTIONS**

- #225-010 - Mobile Mounting Platform

- #540-000 - Industrial Fasteners Manual
- #540-001 - Industrial Fasteners Handbook
- #093-001 - CD-ROM, titled, "Gasket and Bolted Flange Connections" (New Standard Institute)
- #225-500 - Use/Exercise Guide, Flange Bolt Torquing
- #226-001 - Dial-Type Torque Wrench
- #226-002 - Click-Type Torque Wrench

## **ACCESSORIES**

- Sixteen (16) synthetic gaskets of different materials for raised-face application
- Eight (8) synthetic gaskets of different materials for full-face application
- Eight (8) Flexitallic gaskets
- Four (4) o-rings
- Four (4) tally pads for noting results during use
- Drive socket, 1-1/4in. x 1/2in. drive
- Industrial Fasteners Training Manual, with sections on bolted joints, gaskets, and tightening/torque (IPT)

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