

# Pump Packing / Mechanical Seal Trainer



Model: 280-000

DAC Worldwide's Pump Packing / Mechanical Seal Trainer (280-000) is a unique, multi-purpose demonstration device related to training in industrial pump sealing systems. The trainer supports basic introductory training in pump packing / mechanical seal operation, and gives learners a first-hand view into a component that is found in various maintenance applications worldwide.

Based on the dimensions of a standard ANSI centrifugal pump and incorporating a clear acrylic seal area, this lightweight trainer allows for installation and testing of a broad variety of mechanical seals and conventional packing systems. PVC representative impeller housing, leak-off taps, and provisions for vents and drains allow learners to be introduced to pressurized water for test seals and packing under moderate pressure. Additionally, food coloring can be added to allow greater visibility of migration through an improperly packed stuffing box or leakage of a mechanical seal which has been installed incorrectly.

## **Enhance Pump Sealing Training with Hands-On Industrial Components**

This Pump Packing / Mechanical Seal Trainer provides a realistic training introduction to the fundamentals of centrifugal pumps, which will make introductory courses in pump sealing, maintenance, and operation more productive, realistic, and memorable for learners. The trainer components are also industrial-grade, mimicking what students might encounter on-the-job.

The trainer features a 7-gauge formed-steel baseplate with provisions for bench mounting, or mounting on related workstation products. It includes a clear acrylic backhead and stuffing box, allowing for complete visibility of the seal area, which aids in installation of many commercially-available mechanical seals. Additionally, aluminum components grace many angles of the device, including in shaft assembly, spacer assembly, and simulated power-end.

Finally, the equipment used has been cleaned, primed and painted using a high-endurance urethane coating, providing durability to stand up to frequent use.

## **Expand Training with Additional Centrifugal Pump Options**

The Pump Maintenance Trainer is only one of DAC Worldwide's expansive centrifugal pump learning aid options,

which also includes the Centrifugal Pump Fundamentals Trainer (277), the Pump Maintenance Trainer (275), and many more!

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## **FEATURES & SPECIFICATIONS**

- 7-gauge formed-steel baseplate with provision for bench-top mounting, and mounting related workstation products
- Clear acrylic backhead and stuffing box allowing for complete visibility of the seal area, and for installation of many commercially-available mechanical seals.
- PVC simulated impeller housing with water inlet, vent, and drain
- Aluminum shaft assembly, incorporating a stainless steel 1-3/4" shaft sleeve
- Aluminum spacer assembly, connecting impeller housing and power-end
- Aluminum simulated power-end, incorporating sleeve bearing and radial ball bearing for representative pump shaft support and rotation
- Provision for attaching leak-off tubing or coolant re-circulation tubing in the seal area
- Quick-disconnect tube fittings at all fill, vent, and drain locations
- Aluminum lantern ring
- Aluminum packing gland
- Acrylic replacement packing gland for mechanical seal applications
- Handwheel, allowing for shaft rotation
- Provision for mounting on DAC bench, workstation and display products
- Packaging for shipment via motor freight

## **PRODUCT DIMENSIONS**

- **Product Dimensions**  
(W x L x H)  
13-1/2" x 24" x 14" (343 x 609 x 355 mm)  
57 lbs (26 kg)
- **Shipping Dimensions**  
(W x L x H)  
37" x 32" x 28" (940 x 813 x 355 mm)

## **OPTIONS**

- #280-001 - Compression Packing Assortment
- #280-004 - Type 1 Mechanical "Non-Pusher" Seal w/Elastomer Bellows
- #280-005 - Type 8 Mechanical "Pusher" Seal

## **ACCESSORIES**

- Spool of 3/8" braided packing
- Food coloring
- One (1) pressure gauge with quick-connect fittings
- Hose and air adapter assemblies
- Vent and fill valve assemblies
- Two (2) additional impeller housing gaskets
- Tool kit, including:
  - 6" Depth scale
  - Two (2) packing pullers
  - Two (2) lantern ring pullers
  - Packing pusher/driver
  - 1-3/4" diameter packing cutting mandrel
  - Six (6) pairs of disposable gloves
  - Inspection mirror
  - Crocus cloth
  - Plastic tool box

## **UTILITIES**

- Tap Water required

### **Address**

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### **Contacts**

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