

**KSM-006****PUMP PACKING/MECHANICAL SEALING DEMONSTRATOR**

**Pump Packing/Mechanical Sealing Demonstrator Model KSM-006** is unique, multi-use Device allows for demonstration and training related to industrial pump sealing systems. Based on the dimensions of a standard ANSI centrifugal pump and incorporating a clear acrylic seal area, this lightweight demonstrator allows for installation, and testing of a broad variety of mechanical seals and conventional packing systems. A PVC, representative impeller housing, leak-off taps and provision for vents and drains, allow for introduction of pressurized water to test seals and packing under pressure. Food coloring can be added to allow greater visibility of migration through an improperly packed stuffing box or leaking in a mechanical seal which has been installed incorrectly. This light-weight, portable, yet realistic training demonstrator will be an excellent addition to any course relating to pump operation, and maintenance.

**Features**

- Formed, 7-gauge, steel baseplate with provision for bench-top mounting.
- Clear acrylic "back head" and stuffing box, allowing for complete visibility of the seal area, and allowing 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 pump shaft support.
- Provision for attaching leak-off tubing or coolant recirculation 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.
- Hand wheel, allowing for shaft rotation.
- Provision for mounting on the Electro-Mechanical Bench.
- Overall size of 225W x 500L x 250H in mm, Weight @ 25Kgs

*Note: Specifications and Photos can be altered without prior notice in our constant efforts for improvement.*



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### Technical Specification

- The trainer is an industry based heavy duty device that allows for training in :
  - ~ Installation of broad range of mechanical seals used in pumps.
  - ~ hydraulic pressure testing of seals and packing for leaks
- Impeller housing with water inlet, vent and drain.
- The following components are made of aluminum or any other-suitable durable material and shall replicate the size and shape of a standard available centrifugal pump:
  - ~ Shaft assembly with a stainless steel shaft sleeve
  - ~ Spacer assembly
  - ~ Simulated power end
  - ~ Lantern ring
  - ~ Packing gland
- The shaft of the trainer can be rotated manually.
- The sealing area must be made of transparent durable material to allow visibility of the operation of the sealing system
- The trainer has the following features:
  - ~ The seal area has tubing attachments for leak off and coolant recirculation.

