

# External Gear Pump Cutaway



Model: 278-135

External gear pumps are positive displacement rotary pumps consisting of a casing with two interlocking (meshing) gears with external teeth. The unmeshing of the gears produces a partial vacuum to draw fluid into the pump. The fluid is then carried between the gear teeth and displaced into the outlet line when they mesh.

There are many common industrial applications for an external gear pump process, including pumping high-viscosity fluids, such as oils, paints, coolants, bleaches, solvents, glues, greases, asphalt, and foodstuffs like syrups and lard.

They're also used to supply fuel oil, gasoline, kerosene, and diesel oil. In addition to their use in the petrochemical, chemical, and food industries, external gear pumps are also used for hydraulic devices like elevators and damper controls.

DAC Worldwide's External Gear Pump Cutaway (278-135) is a sample industrial external gear pump that has been carefully sectioned and color-coded to train learners in the design, operation, construction, and maintenance of this common process pump used throughout industry.

The cutaway exposes and showcases the complete internal configuration of an industrial external gear pump. Moreover, seal features, bearings, and hardware locations have been retained to allow realistic, hands-on pump maintenance and operation training. This realistic cutaway will make introductory courses in pump maintenance and operation more productive and memorable.

## **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 External Gear Pump Cutaway features a common, industrial-quality external gear pump sourced from common pump makes and models, such as Haight, Jackson/SPX, Viking, Oberdorfer, and Tuthill, to provide learners with a realistic training experience that will build skills that translate easily to the workplace.

The External Gear Pump Cutaway is a sturdy unit whose primary features have been retained, and replacement hardware is supplied where necessary. To make identification easier, component parts, such as gaskets, seals, and

bearings, are clearly visible, and cutaway surfaces, seal elements, and pumping surfaces are color-coded with contrasting colors.

The cutaway is cleaned, primed, and painted using a high-durability polyurethane coating. It comes on a 7-gauge, formed-steel baseplate with provision for tabletop mounting or mounting on an optional DAC Worldwide Electromechanical Workstation.

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## **FEATURES & SPECIFICATIONS**

- Sectioning of an actual industrial rotary gear pump. (Examples from manufacturers such as Haight, Jackson/SPX, Viking, Oberdorfer, and Tuthill are chosen for industrial relevancy.)
- Cleaning, priming, and painting using a high-durability, urethane coating.
- Color-coding of cutaway surfaces, seal elements, and pumping surfaces using contrasting colors.
- Replacement plated hardware where necessary.
- All gaskets, seals, and bearings visible.
- 7-gauge, formed-steel baseplate with provision for tabletop mounting and mounting on related DAC Worldwide bench products.
- Crating for shipment via motor freight.

## **PRODUCT DIMENSIONS**

- **Product Dimensions**  
(L x W x H)  
Approx. 12in. x 14in. x 12in. (300 x 350 x 300 mm)  
45lbs. (21kg)
- **Shipping Dimensions**  
85lbs. (39kg)

## **OPTIONS**

- Recommended #902 Electromechanical Workstation

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