

# Planetary Gear Reducer Dissectible



Model: 205-180

Gear reducers, also known as gear boxes, gear drives, or speed reducers, are enclosed mechanical devices that use gears to lower the speed and raise the torque of an electric motor. There are a wide variety of different types of gear reducers for specific applications.

Planetary gear reducers use three force-transmitting elements — a sun gear, three or more satellite or planet gears, and an internal ring gear — to achieve speed reduction. Planetary gear reducers provide the following benefits: high torque density, load distribution and sharing between planet gears, smooth transmission, high efficiency, low backlash, and low cost.

Planetary gear reducers are used in a wide variety of applications, including: linear actuators, X-Y gantry systems, textile machines, packaging machines, conveying, materials handling, AGVs, paper manufacturing, rack and pinion, printing, semiconductor, food processing, bottle manufacturing, automotive, and tire manufacturing.

DAC Worldwide's Planetary Gear Reducer Dissectible (205-180) is one of an extensive series of actual industrial gear reducer dissection units for use in hands-on mechanical drives training in either the classroom or the laboratory.

Each dissection unit consists of a real piece of industrial equipment that has been cleaned, restored, repainted, and mounted on a modular, heavy-gauge, formed-steel baseplate. It can also be mounted on a compatible DAC

Worldwide bench, workstation, or storage product.

All primary functional features are retained, and replacement hardware is provided where necessary. The dissectible provides learners with realistic, hands-on experience with the detailed disassembly, inspection, and assembly of a planetary gear reducer commonly encountered in industry.

### **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 dissectible features a carefully-restored, industrial planetary gear reducer to provide learners with a realistic training experience that will build skills that translate easily to the workplace.

The Planetary Gear Reducer Dissectible is a sturdy unit mounted on a 7-gauge, formed-steel baseplate with provision for bench-top, workstation, or storage rack mounting. Where necessary, it has been painted with a highly-durable urethane coating. An applicable installation and maintenance manual from the original manufacturer is also included with each dissectible.

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

The Planetary Gear Reducer Dissectible can be customized with available options to create a training system that matches a particular industry's or user's specific needs. For example, available options for this dissectible include: an IPT Industrial Trades Training Manual or Handbook and an Electromechanical Workstation.

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## **FEATURES & SPECIFICATIONS**

- 7-gauge, formed-steel baseplate with provision for bench-top, workstation, and storage rack mounting.
- Restoration of actual industrial gear reducers.
- Painting, where necessary, using a high-durability, urethane coating.
- Replacement hardware where necessary.
- Applicable installation and maintenance manual from original manufacturer.
- Crating for shipment via common carrier.

## **PRODUCT DIMENSIONS**

- **Product Dimensions**  
(L x W x H)  
Approx. 24in. x 13in. x 14in. (600 x 330 x 360 mm)  
Varies, 45-150lbs. (20-70kg)
- **Shipping Dimensions**  
Varies, 70-175lbs. (32-80kg)

DISCLAIMER: Product Dimensions are approximate. Shipping Dimensions and Weights are for directional use only and may change based on manufacturer variables. For the most accurate Shipping Dimensions and Weights, please contact the manufacturer.

## **OPTIONS**

- Recommended #902F – Electromechanical Workstation
- #510-000 - Industrial Trades Manual (IPT)
- #510-001 - Industrial Trades Handbook (IPT)

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