



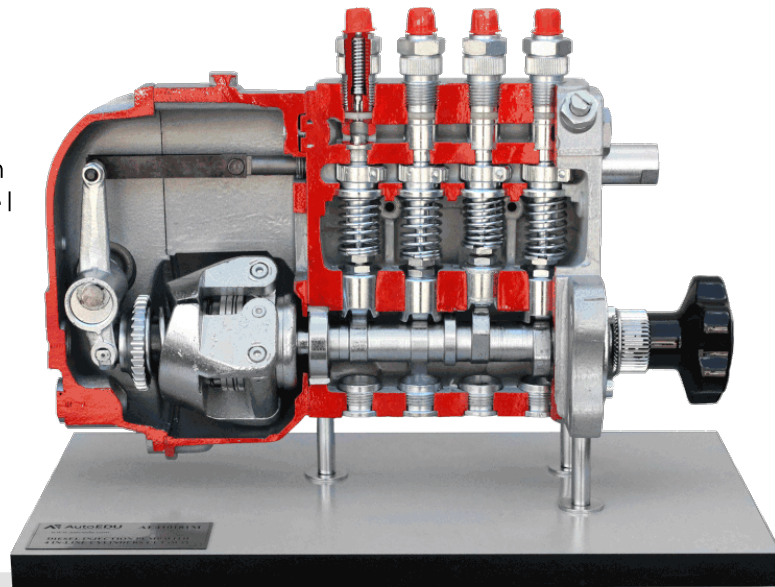
DIESEL INJECTION PUMP WITH 4 IN-LINE CYLINDERS CUTAWAY



A1

Product number
AE410181M

Cutaway model designed for automotive education and vocational training. The system features four in-line cylinders with a centrifugal governor, demonstrating fuel injection principles and component interaction. The model is manually operated, allowing students to observe mechanical movement, fuel delivery adjustments, and governor function. Various internal sections are color-coded and plated for clear identification of functional parts, enhancing the learning experience.



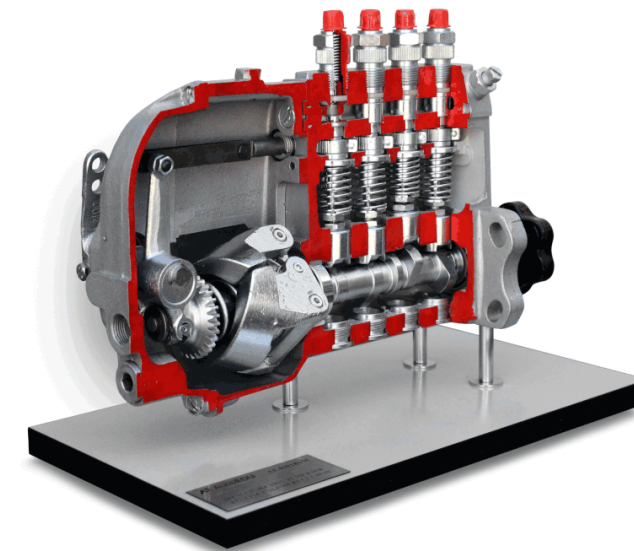
Features

- Fully sectioned diesel injection pump with four in-line cylinders and a centrifugal governor.
- Color-coded and plated internal components for clear identification.
- Manual operation allows real-time observation of fuel injection and governor adjustments.
- Toothed axle and sleeve for pump delivery adjustment.
- Integrated fuel feed and return piping.
- Spring-loaded regulator mechanism for peak RPM and idling adjustment.
- Camshaft-driven pump control mechanism.
- Sectioned lubrication circuits for studying fuel flow and system lubrication.
- Sturdy base-mounted design for stability and ease of demonstration.



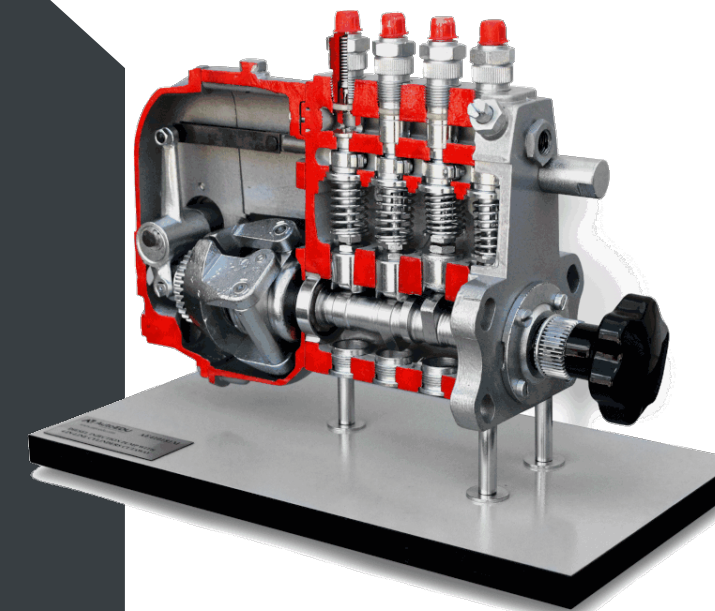
Value for Students

- Enables hands-on learning of diesel fuel injection system principles, including fuel delivery, pressure regulation, and timing adjustments.
- Demonstrates the function of the centrifugal governor in controlling fuel supply and maintaining engine stability under different loads.
- Provides an in-depth view of mechanical fuel injection components such as plunger barrels, delivery valves, toothed axles, and injection pump shafts.
- Supports the study of lubrication circuits, fuel pressure control, and excess fuel return mechanisms.
- Allows manual operation to observe real-time interactions between the camshaft, sector gears, counterweights, and injection elements.



Value for Instructors

- Provides a clear, sectioned model for detailed explanations of diesel injection pump functionality.
- Enhances engagement through interactive demonstrations of fuel injection and governor regulation.
- Simplifies teaching of mechanical fuel injection system troubleshooting and component identification.
- Designed for durability with professionally painted, chromium-plated, and galvanized parts for extended use.
- Supports group learning by offering a safe, controlled, and visible representation of injection pump mechanics.



Specifications

- Dimensions: 400 x 200 x 300 mm (15.74 x 7.87 x 11.8 inch)
- Weight: approx. 9 kg (20 lb)
- Product number: AE410181M

