



Cutaway engine model is based on a 6-cylinder turbo diesel engine with a displacement of **5900 cm<sup>3</sup>**, direct common-rail injection, and a waste-gate turbocharger. Professionally sectioned for training, it features visible components including the crankshaft, valves, pistons, injectors, turbocharger, fuel pump, and exhaust system. It is equipped with an alternator, air compressor, cooling fan with a viscous joint, and camshaft in the crankcase. The model operates electrically by **220V (110V US)** in reduced speed, demonstrating internal operations in a controlled, safe environment.

### Features

- Sectioned engine components including crankshaft, valves, injectors, camshaft, and cylinders for hands-on training.
- Clear visualization of oil and cooling paths, highlighting key systems in operation.
- Electric operation on low speed to simulate real engine mechanical functions.
- Professionally painted and color-coded parts for easy differentiation.
- Chromium-plated and galvanized components for enhanced durability and longevity.

### Value for Students

- Detail study of a turbo diesel engine, including components like the crankshaft, pistons, valves, injectors and all other essential components.
- Clear view of internal systems such as cooling, oiling, and fuel circuits.
- Practical learning with manual operation, allowing students to see the movement of components like the camshaft and flywheel in action.
- Diagnostic and repair skills by identifying the interaction of components in common-rail injection and turbocharging systems.
- Understand principles of lubrication, cooling, and combustion processes critical for automotive maintenance.

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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### Value for Instructors

- Clear visual representation of internal engine and gearbox components.
- Supports versatile teaching from basic mechanical principles to advanced concepts like common-rail injection and waste-gate turbocharger functions.
- Mobile and space saving in the classroom, allows concurrent use by multiple students.
- Electrical operation by **220V (110V US)** engine movement observation on low speed.

### Specifications

- **Dimensions:** 1400 × 1000 × 1650 mm (55.12 × 39.37 × 64.96 in)
- **Weight:** 510 kg (1124.36 lbs)
- **Model No.:** AT0354

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