



# SINGLE-CYLINDER 4 STROKE PETROL ENGINE AIR COOLED CUTAWAY MODEL

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Product number  
AE35245M

The Single-Cylinder 4-Stroke Petrol(gasoline) Engine Air-Cooled Cutaway Model features a 160cc displacement engine delivering 6 horsepower. It is equipped with a camshaft housed in the crankcase, overhead valves, an RPM regulator, oil pump, carburetor, air filter, silencer, and a fuel tank. This manually operated trainer provides a comprehensive view of internal components and cooling mechanisms, making it an ideal tool for technical and vocational automotive education.



## Features

- 160cc displacement and 6 horsepower for realistic performance simulations.
- Provides a transparent view of internal components such as the camshaft in the crankcase, overhead valves, and RPM regulator.
- Allows manual control of engine speed and operation, essential for practical learning.
- Includes oil pump, carburettor, air filter, silencer, and fuel tank for a comprehensive learning experience.
- Demonstrates basic engine air-cooling principles.

## Value for Students

- Students will gain a thorough understanding of the operation of a single-cylinder, 4-stroke petrol(gasoline) engine. The cutaway model allows for clear visibility of internal components such as the camshaft, overhead valves, and RPM regulator.
- Detailed examination of key engine components including the oil pump, carburetor, air filter, and silencer. Students can observe their arrangement, function, and interaction within the engine.
- Learn about engine principles including combustion, valve timing, and fuel-air mixture regulation. The manual operation feature provides practical experience in controlling engine speed and performance.
- Study the air-cooled system and understand its advantages and limitations compared to liquid cooling systems.
- Analyze the engine's vibration characteristics and the role of flywheels and counterbalance shafts in mitigating these effects.

## Specifications

- Dimensions: 480 x 480 x 500 mm (18.90 in x 18.90 in x 19.69 in)
- Weight: 16 kg (35 lb)
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