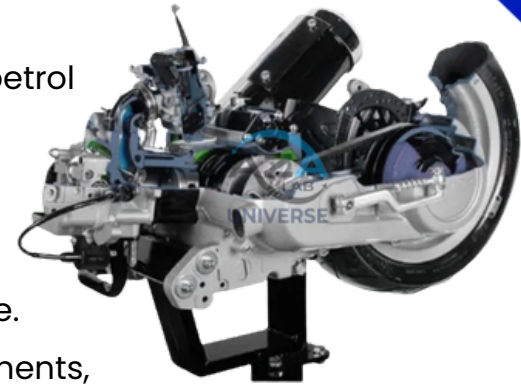




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## **CUT SECTION MODEL OF FOUR STROKE PETROL ENGINE AZA1253**

The AZA1253 Cut Section Model of Four Stroke Petrol Engine by AZA LAB is a precision-engineered educational training model developed to provide a clear and practical understanding of four-stroke petrol engine construction and operation. Specifically designed for engineering colleges, ITIs, polytechnics, vocational training centers, and automotive laboratories, this model presents a detailed sectional view of an actual four-stroke petrol engine.



The cutaway construction exposes all major internal components, enabling students to visually study how mechanical and thermodynamic processes occur during each stage of engine operation – intake, compression, power, and exhaust strokes.

### **KEY FEATURES**

#### **1. ACTUAL FOUR-STROKE PETROL ENGINE**

Manufactured using a real petrol engine for authentic demonstration and practical understanding.

#### **2. PRECISION CUTAWAY CONSTRUCTION**

Clearly exposes internal engine components for enhanced visual learning.

#### **3. COLOR-CODED COMPONENTS**

Different systems and parts are highlighted for easy identification during demonstrations.



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### 4. MANUAL OPERATION

Hand-crank mechanism allows slow and controlled step-by-step explanation of engine operation.

### 5. ROBUST INDUSTRIAL CONSTRUCTION

Built with durable materials and mounted on a sturdy base frame for long-term institutional use.

### 6. EDUCATIONAL & FUNCTIONAL DESIGN

Accurately demonstrates actual engine working principles and mechanical relationships.

### TECHNICAL SPECIFICATIONS

| Parameter         | Specification                           |
|-------------------|---|
| Model             | AZA1253                                 |
| Make              | AZA LAB                                 |
| Engine Type       | Four Stroke Petrol Engine (Cut Section) |
| Displacement      | 160 cc                                  |
| Power Output      | 6 HP                                    |
| Camshaft Location | In crankcase                            |



## UNIVERSE TECHNICAL SPECIFICATIONS

| Parameter              | Specification          |
|------------------------|------------------------|
| Valve Type             | Overhead valves        |
| RPM Regulator          | Yes                    |
| Oil Pump               | Yes                    |
| Carburetor             | Yes                    |
| Air Filter             | Yes                    |
| Silencer               | Yes                    |
| Fuel Tank              | Yes                    |
| Operation              | Manual (crank handle)  |
| Mounting               | Sturdy iron base frame |
| Dimensions (L × W × H) | 500 × 500 × 600 mm     |
| Weight                 | Approx. 35 kg          |

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