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PRODUCT DATA SHEET
Catalogue reference for product evaluation

Phone: +91 7015865225 **Email:** info@scienticoindia.com **Web:** scienticoindia.com **Address:** #71, Industrial Area, Ambala Cantt, Haryana, India

Cut Model Of Single Cylinder Four Stroke Petrol Engine | Torquemaster-38

Category: Automobile Engineering Lab Equipment · **Order Code:** TORQUEMASTER-38 · **Country of Origin:** India

Product Overview

Cut Model Of Single Cylinder Four Stroke Petrol Engine Torquemaster-38 demonstrates the internal construction and operation of a 160 cc, 6 hp single cylinder four-stroke petrol engine. This Cut Model Of Single Cylinder Four Stroke Petrol Engine features a cutaway design showing piston, valves, crank, camshaft, pumps, and all auxiliary systems with colour-coded components. It is dissectible for demonstration, mounted on a sturdy iron frame with flywheel, and supplied with key card and working literature for comprehensive classroom training.

View this product online: https://scienticoindia.com/product/cut-model-of-single-cylinder-four-stroke-petrol-engine-torquemaster-38/



Request a model-specific quotation
Include quantity and delivery country.

Technical Specifications

Cut Model Of Single Cylinder Four Stroke Petrol Engine Torquemaster-38 — Technical Specifications

Parameter	Value
Model	Torquemaster-38
Engine Type	Single cylinder four-stroke petrol engine
Displacement	160 cc
Power	6 hp
Camshaft	In the crankcase
Valves	Overhead valves
Speed Control	RPM regulator
Lubrication	Oil pump
Fuel Supply	Carburetor
Air Supply	Air filter
Exhaust	Silencer
Fuel Storage	Tank
Design Feature	Flywheel mounted on sturdy iron frame

Parameter	Value
Operation	Manual, through a crank handle
Equipment Layout	On base
Finish	Fine finish
Construction	Dissectible for demonstration purposes
Documentation	Key card and working literature included
Length x Width x Height (approx.)	480 x 480 x 500 mm
Weight (approx.)	35 kg

Technical Data

Engine Configuration

Component	Detail
Displacement	160 cc
Power Output	6 hp
Cylinder Type	Single cylinder
Stroke Type	Four-stroke cycle
Camshaft Location	In the crankcase
Valve Type	Overhead valves

Components Demonstrated

Component	Detail
Piston	Working piston demonstrating reciprocating motion
Valves	Intake and exhaust valves showing operation
Crank	Crankshaft converting piston motion to rotary motion
Camshaft	In crankcase driving valve operation
Pumps	Oil pump and fuel pump operation
Flywheel	Mounted on engine for momentum demonstration

Auxiliary Systems

Component	Detail
Lubrication	Oil pump and lubricating circuits
Cooling	Cooling system and circuits
Fuel System	Carburetor and fuel tank
Air Supply	Air filter
Exhaust	Silencer
Speed Control	RPM regulator

Key Features

Key Features

- **Operation:** Manually operated through a crank handle

- **Layout:** On base with sturdy iron frame
- **Finish:** Fine finish with colour-coded components
- **Handling:** Simple operations
- **Accuracy:** Functional accuracy
- **Design Type:** Cut Model Of Single Cylinder Four Stroke Petrol Engine for comprehensive engine training
- **Dissectible:** Specially made dissectible for demonstration purposes
- **Documentation:** Supplied with key card and interesting working literature

Experiments

- Study of single cylinder four-stroke petrol engine internal construction
- Study of intake, compression, expansion, and exhaust strokes
- Observation of piston motion and crankshaft rotation
- Study of valve operation with camshaft in crankcase
- Observation of fuel system with carburetor
- Study of air filter and intake system
- Study of exhaust system with silencer
- Observation of oil pump and lubricating circuit
- Study of cooling system and distribution circuit
- Manual engine operation with crank handle
- Understanding of complete engine working principles

Construction and Design

The Cut Model Of Single Cylinder Four Stroke Petrol Engine Torquemaster-38 is built as a single cylinder four-stroke petrol engine with 160 cc displacement and 6 hp power rating. The cutaway model is carefully sectioned to show the internal constructional details, with the working of individual parts and accessories like valves, pistons, pumps, crank and camshaft clearly demonstrated. The engine features a camshaft located in the crankcase with overhead valves for efficient operation. A flywheel is mounted on the engine and the complete assembly is mounted on a sturdy iron frame. The model is professionally painted with different colours to differentiate various parts, cross-sections, lubricating circuits, fuel system, and cooling system, with many parts chromium plated and galvanized for durability. The model includes an oil pump, carburetor, air filter, silencer, tank, and RPM regulator. It is specially made dissectible for demonstration purposes and is supplied with a key card and interesting literature regarding working principles. Operation is manual through a crank handle.

Scope of Delivery

- Single cylinder four-stroke petrol engine cutaway model
- Piston and connecting rod assembly
- Crankshaft and camshaft
- Intake and exhaust valves
- Oil pump and lubrication circuit components
- Carburetor and fuel tank
- Air filter and silencer
- Flywheel
- Sturdy iron frame base
- RPM regulator
- Key card with component identification
- Working literature and operating principle documentation
- Crank handle for manual operation

Ordering & Delivery

- Send the product name, quantity, delivery country and destination with your enquiry.
- Production schedule, freight, payment terms and export documents are confirmed in the written quotation.

Frequently Asked Questions

demonstrate?
A: It demonstrates the internal construction and operating principles of a single cylinder four-stroke petrol engine, including all major components and systems.

Q2: What is the displacement and power of this engine model?
A: The engine has a displacement of 160 cc and a power rating of 6 hp.

Q3: Can the model be disassembled for closer inspection?
A: Yes, the model is specially made dissectible for demonstration purposes, allowing students to examine individual components.

Q4: What documentation is provided with this model?
A: A key card and interesting literature regarding the working principles of the engine are supplied with the model.

Q5: What are the dimensions and weight of the model?
A: The approximate dimensions are 480 x 480 x 500 mm, with an approximate weight of 35 kg.

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