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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

Working Model Of MPFI Petrol Engine | Torquemaster-17

Category: Automobile Engineering Lab Equipment · **Order Code:** TORQUEMASTER-17 · **Country of Origin:** India

Product Overview

Working Model Of MPFI Petrol Engine Torquemaster-17 is a multi point fuel injection petrol engine cutaway model demonstrating fuel delivery through multiple injectors per cylinder. This Working Model Of MPFI Petrol Engine features a 4 in-line cylinder engine with displacement of 1600, 1800, or 2000 cc, an overhead camshaft, and a 5-speed gearbox with integrated differential. It is mounted on a mobile solid frame and built for classroom and service training demonstration.

View this product online: https://scienticoindia.com/product/working-model-of-mpfi-petrol-engine-torquemaster-17/



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

Technical Specifications

Working Model Of MPFI Petrol Engine Torquemaster-17 — Technical Specifications

Parameter	Value
Model	Torquemaster-17
System	MPFI engine model system installed in a mobile solid frame
Injection	Multi-point electronic injection with throttle
Cylinders	4 cylinders engine, 4 in-line cylinders
Displacement	1600/1800/2000 cc
Camshaft	Overhead camshaft (OHC)
Distribution	Toothed belt
Gearbox	5 speeds and reverse, with integrated differential
Exhaust	Exhaust manifold with Lambda probe
Operation	Manual/electrical
Equipment Layout	On base with wheel
Finish	Fine finish
Length x Width x Height (approx.)	900 x 800 x 1000 mm
Weight (approx.)	155 kg

Technical Data

Component	Detail
Injection System	Multi point fuel injection, one injector per cylinder in intake manifold
Injector Arrangement	All injectors connected to common input, higher pressure
Engine Configuration	4 in-line cylinders, displacement 1600/1800/2000 cc
Camshaft and Distribution	Overhead camshaft driven through toothed belt
Gearbox	5 speeds and reverse with integrated differential
Exhaust	Manifold fitted with Lambda probe

Key Features

Key Features

- **Design:** MPFI engine model ideal for classroom demonstrations
- **Cross-Sectioning:** Various parts cross-sectioned to show internal operation
- **Operation:** Manual/electrical
- **Layout:** On base with wheel
- **Finish:** Fine finish
- **Handling:** Simple operations
- **Accuracy:** Functional accuracy
- **Design Type:** Working Model Of MPFI Petrol Engine with multi-point electronic injection and integrated differential gearbox

Experiments

- Study of multi point fuel injection system operation
- Study of injector placement and fuel delivery per cylinder
- Study of common input injector pressure system
- Study of overhead camshaft and toothed belt distribution
- Study of 5-speed gearbox with integrated differential
- Study of exhaust manifold and Lambda probe function
- MPFI system repair and service procedure training

Construction and Design

The Working Model Of MPFI Petrol Engine Torquemaster-17 is built as an MPFI engine model system installed in a mobile solid frame. The engine features multi-point electronic injection with throttle, delivered through 4 in-line cylinders with a displacement of 1600, 1800, or 2000 cc. An overhead camshaft driven through a toothed belt is fitted, along with a 5-speed gearbox with reverse and integrated differential. The exhaust manifold includes a Lambda probe. Parts are professionally painted in different colours to differentiate components, cross-sections, lubricating circuits, fuel system, and cooling system, with several parts chromium plated and galvanized for durability.

Scope of Delivery

- MPFI petrol engine cutaway model on mobile solid frame
- Multi-point electronic injection system with throttle
- 5-speed gearbox with reverse and integrated differential
- Exhaust manifold with Lambda probe

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

Q1: What does the Working Model Of MPFI Petrol Engine Torquemaster-17 demonstrate?
A: It demonstrates the structure and operation of a multi point fuel injection system used in petrol engines.

Q2: How does MPFI deliver fuel to the engine?
A: MPFI injects fuel through multiple ports situated on the intake valve of each cylinder, with one injector per cylinder placed in the intake manifold.

Q3: What is the displacement range of this model?
A: The engine displacement is 1600, 1800, or 2000 cc.

Q4: What gearbox does this model feature?
A: It features a 5-speed gearbox with reverse and an integrated differential.

Q5: What are the dimensions and weight of the model?
A: The approximate dimensions are 900 x 800 x 1000 mm, with an approximate weight of 155 kg.

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