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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

Vehicle Transmission 5 Speed Manual Gearbox | Torquemaster-27

Category: Scientico · **Order Code:** TORQUEMASTER-27 · **Country of Origin:** India

Product Overview

Vehicle Transmission 5 Speed Manual Gearbox Torquemaster-27 is a working cutaway model of a 5-speed manual transmission fitted to most 4WD vehicles. This Vehicle Transmission 5 Speed Manual Gearbox shows a 5-speed gearbox with reverse, 2-speeds reduction gear, front wheel drive manual control, drive shafts with universal joints, and self-locking hypoid differentials. Professionally painted with colour-coded components and chromium plated parts, it is mounted on a base with wheel for classroom demonstration.

View this product online: https://scienticoindia.com/product/vehicle-transmission-5-speed-manual-gearbox-torquemaster-27/



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

Technical Specifications

Vehicle Transmission 5 Speed Manual Gearbox Torquemaster-27 — Technical Specifications

Parameter	Value
Model	Torquemaster-27
Vehicle Application	4WD vehicles
Gearbox	5 speeds and reverse
Reduction Gear	2-Speeds reduction gear
Drive System	Front wheel drive manual control
Drive Shafts	Drive shafts with universal joints
Differential	Self-locking hypoid differentials
Operation	Manual operation
Equipment Layout	On base with wheel
Finish	Fine finish
Length x Width x Height (approx.)	800 x 300 x 1100 mm
Weight (approx.)	225 kg

Technical Data

Gearbox and Transmission

Component	Detail
Gearbox Configuration	5 speeds and reverse
Reduction Gear	2-Speeds reduction gear
Gear Selection	Manual control
Torque Conversion	Speed and torque conversion through gear trains

Drive System

Component	Detail
Drive Configuration	Front wheel drive with manual control
Drive Shafts	Fitted with universal joints
Differential	Self-locking hypoid differentials
Power Distribution	To front wheels through differential

Key Features

Key Features

- **Design:** Transmission system model ideal for classroom demonstrations
- **Cross-Sectioning:** Various parts cross-sectioned to show internal operation
- **Operation:** Manual
- **Layout:** On base with wheel
- **Finish:** Fine finish
- **Handling:** Simple operations
- **Accuracy:** Functional accuracy
- **Design Type:** Vehicle Transmission 5 Speed Manual Gearbox with 5-speed gearbox and 2-speed reduction gear

Experiments

- Study of 5-speed manual gearbox operation
- Study of speed and torque conversion through gear trains
- Study of 2-speeds reduction gear function
- Study of front wheel drive transmission system
- Study of drive shafts and universal joint operation
- Study of self-locking hypoid differential function
- Study of manual gear selection and control mechanisms
- Study of power distribution from engine to wheels

Construction and Design

The Vehicle Transmission 5 Speed Manual Gearbox Torquemaster-27 is a working model of transmission assembly fitted to most 4WD vehicles. The various parts are supplied as accurate real cutaways, connected together to show their operation in an easy and immediately understandable manner. The model features a 5-speed gearbox plus reverse, with a 2-speeds reduction gear providing additional speed and torque conversion options. Front wheel drive manual control allows demonstration of drive system operation. Drive shafts are fitted with universal joints for smooth power transmission, and self-locking hypoid differentials distribute power to the front wheels. The cutaway model is professionally painted with different colours to differentiate various parts and cross-sections, with many parts chromium plated and galvanized for durability. Manual operation allows comprehensive demonstration of transmission functions.

Scope of Delivery

- Vehicle transmission 5-speed manual gearbox cutaway model
- 5-speed gearbox assembly with reverse
- 2-speeds reduction gear
- Front wheel drive control mechanism

- Drive shafts with universal joints
- Self-locking hypoid differentials
- Base-mounted assembly with wheel

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 Vehicle Transmission 5 Speed Manual Gearbox Torquemaster-27 demonstrate?
A: It demonstrates the structure and operation of a 5-speed manual transmission system used in most 4WD vehicles, including gearbox, differential, and drive system components.

Q2: How many speeds does the gearbox have?
A: The gearbox has 5 forward speeds plus reverse, with an additional 2-speeds reduction gear for extended speed and torque conversion.

Q3: What type of differential is used in this model?
A: Self-locking hypoid differentials are used to distribute power to the front wheels.

Q4: How is the transmission operated?
A: The model is manually operated, allowing students to demonstrate and understand gear selection and transmission function.

Q5: What are the dimensions and weight of the model?
A: The approximate dimensions are 800 x 300 x 1100 mm, with an approximate weight of 225 kg.

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