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PRODUCT DATA SHEET
Catalogue reference for product evaluation

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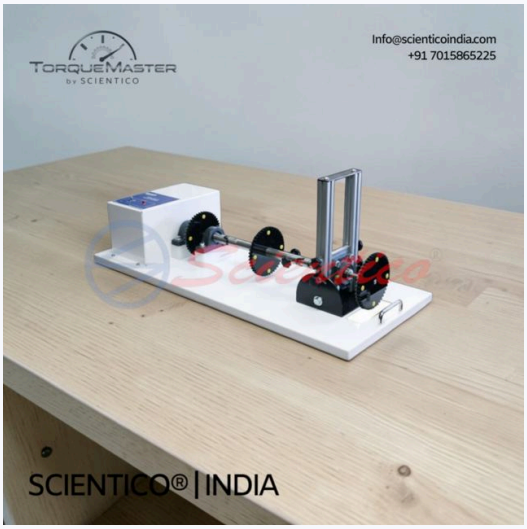
Working Model Of Drive Shaft | Torquemaster-12

Category: Automobile Engineering Lab Equipment · **Order Code:** TORQUEMASTER-12 · **Country of Origin:** India

Product Overview

Working Model Of Drive Shaft Torquemaster-12 demonstrates the acceleration and deceleration phenomenon that occurs in revolving universal joints and drive shafts at various angles. This Working Model Of Drive Shaft is driven by an electric motor with universal shaft adjustment, allowing different driveshaft angles to be selected. Speed variation effects are audibly demonstrated using toothed wheels, illustrating vibration and wear caused by angled operation. It is mounted on a mobile solid frame for classroom demonstration.

View this product online: https://scienticoindia.com/product/working-model-of-drive-shaft-torquemaster-12/



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

Technical Specifications

Working Model Of Drive Shaft Torquemaster-12 — Technical Specifications

Parameter	Value
Model	Torquemaster-12
System Type	Fully functional Drive Shaft system installed in a mobile solid frame
Angle Adjustment	Different driveshaft angles can be selected using the adjustment system
Speed Change Demonstration	Results of changes in speed audibly demonstrated using toothed wheels
Power Required	230V, 50Hz, 1 phase
Length x Width x Height (approx.)	800 x 500 x 600 mm
Weight (approx.)	45 kg

Technical Data

Component	Detail
Drive Method	Driven by electric motor
Indicators	Visual indicators
Shaft Adjustment	Universal shaft adjustment
Propeller Shaft	Tubular section, one- or two-piece construction
Two-Piece Support	Supported at mid point by rubber-mounted bearing

Component	Detail
Short Drive Shafts	Transmit power from final drive assembly to road wheels in front and rear wheel drive layouts

Key Features

Key Features

- **Drive Method:** Driven by electric motor
- **Indicators:** Visual indicators for speed and angle effects
- **Adjustment:** Universal shaft adjustment
- **Angle Selection:** Different driveshaft angles selectable via adjustment system
- **Audible Demonstration:** Speed changes demonstrated audibly using toothed wheels
- **Design Type:** Working Model Of Drive Shaft mounted in a mobile solid frame for classroom use

Experiments

- Study of acceleration and deceleration in revolving universal joints
- Study of variable output speed at different driveshaft angles
- Observation of vibration and wear effects caused by angle changes
- Study of propeller shaft construction, one-piece and two-piece
- Study of short drive shaft power transmission in front and rear wheel drive layouts
- Audible demonstration of speed variation using toothed wheels

Construction and Design

The Working Model Of Drive Shaft Torquemaster-12 is a fully functional drive shaft system installed in a mobile solid frame. It is driven by an electric motor and fitted with visual indicators to demonstrate the effects of shaft angle on output speed. The universal shaft adjustment allows different driveshaft angles to be selected, and the resulting speed changes can be audibly demonstrated using toothed wheels. The model represents the propeller shaft, or carden shaft, along with short drive shafts used in the transmission of power to the road wheels.

Scope of Delivery

- Drive shaft system on mobile solid frame
- Electric motor drive unit
- Universal shaft adjustment mechanism
- Toothed wheel speed demonstration assembly
- Visual indicators

Required for Operation

- Power supply: 230V, 50Hz, 1 phase

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 Drive Shaft Torquemaster-12 demonstrate?
A: It demonstrates the acceleration and deceleration phenomenon in revolving universal joints and drive shafts operating at various angles.

Q2: Why does output driveshaft speed vary?
A: Even when the input driveshaft rotates at constant speed, the output driveshaft maintains a variable speed depending on the angle between them, causing vibrations and wear.

Q3: How is the speed variation demonstrated?
A: The results of speed changes are audibly demonstrated using toothed wheels.

Q4: What power supply does this model require?
A: It requires a 230V, 50Hz, 1 phase power supply.

Q5: What are the dimensions and weight of the model?
A: The approximate dimensions are 800 x 500 x 600 mm, with an approximate weight of 45 kg.

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