



Car Torsional Vibration Damper DFTD Low Energy Consumption Environmental Protection

Our Product Introduction

for more products please visit us on dongfengtorsionaldamper.com

Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Model Number: A100144260
- Minimum Order Quantity: 100 piece
- Price: EXW 68.8CNY/piece
- Packaging Details: Metal mesh box packaging
- Delivery Time: Spot goods
- Payment Terms: T/T
- Supply Ability: Annual production of 500000 pieces



Product Specification

- Durability: Highly Durable
- Maintenance: Low Maintenance Required
- Package Contents: Car Torsional Vibration Damper
- Weight: 2kg
- Number Of Dampers: 1
- Damping Coefficient: 0.8
- Installation Method: Bolt-on
- Compatibility: Universal
- Material: Cast Iron
- Application: Automotive Industry
- Size: 10cm X 10cm X 5cm
- Maximum Torque Capacity: 500Nm
- Warranty: 1 Year
- Dimensions: 15x 15 X 6 Cm
- Highlight: **Environmental protection Car Torsional**

Product Description

Passenger Car Torsion Shock Absorber Buyer's Guide

In today's rapidly developing automotive market, passenger cars, as an important means of transportation for daily travel, are increasingly receiving attention from consumers for their performance and comfort. Among them, torsional vibration dampers, as an important component of passenger car suspension systems, have a crucial impact on the vehicle's driving stability, ride comfort, and safety. In order to help passenger car buyers better understand and choose torsional vibration dampers, this article will provide a detailed introduction to the basic principles, types, selection points, and market status of torsional vibration dampers, providing you with a comprehensive reference for purchasing a car.

1, Basic principle of torsional vibration damper

Torsion shock absorber, also known as torsional shock absorber, is an important device used in the automotive transmission system to reduce and eliminate torsional vibration (i.e. the vibration generated by the transmission shaft when transmitting torque). It mainly absorbs and dissipates torsional vibration energy through internal elastic elements (such as rubber, springs, etc.) and damping elements (such as oil, friction plates, etc.), thereby protecting various components of the transmission system from damage and improving the smoothness and reliability of vehicle operation.

The working principle of a torsional vibration damper can be simply summarized as follows: when the transmission shaft is subjected to torque, the generated torsional vibration is transmitted to the inside of the damper. The elastic element first absorbs some of the vibration energy and converts the remaining vibration energy into thermal energy or other forms of energy dissipation through the damping element, thereby achieving effective control of torsional vibration.

2, Types of torsional vibration dampers

At present, the torsional vibration dampers used in high-end cars on the market are mainly divided into the following types:

Rubber torsional vibration damper

Rubber torsional vibration dampers utilize the elasticity and damping properties of rubber materials to absorb and dissipate torsional vibration energy. It has the advantages of simple structure, low cost, easy installation and maintenance, and is therefore widely used in mid to low end passenger cars. However, it should be noted that rubber materials are prone to aging after high temperatures and prolonged use, which can affect their shock absorption performance and service life.

Hydraulic torsional vibration damper

Hydraulic torsional vibration dampers control torsional vibration through internal structures such as oil and throttle holes. When the transmission shaft is subjected to torque, the flow of oil in the throttle hole generates damping force, thereby absorbing and dissipating torsional vibration energy. Hydraulic torsional vibration dampers have the advantages of good damping effect and long service life, but they are relatively expensive and require high sealing and cleanliness of the oil.

Composite torsional vibration damper

The composite torsional vibration damper combines the advantages of rubber and hydraulic torsional vibration dampers, and controls torsional vibration through internal rubber and hydraulic components. It has a high shock absorption effect and a long service life, while the cost is relatively low, so it is widely used in mid to high end passenger cars.

3, Key points for selecting torsional vibration dampers

When choosing a passenger car torsional vibration damper, buyers need to pay attention to the following points:

Adaptability

Firstly, ensure that the selected torsional vibration damper is fully compatible with the vehicle's transmission system. Different vehicle models and transmission systems have different requirements for torsional vibration dampers, so it is necessary to choose the appropriate torsional vibration damper based on the specific model and transmission system type of the vehicle.

The performance of torsional vibration dampers directly affects the driving stability and ride comfort of vehicles. Therefore, when choosing, it is necessary to pay attention to its performance in terms of shock absorption effect, service life, and durability. You can understand the performance of the product by consulting the product manual, consulting professionals, or referring to evaluations from other car owners.

brand

Brand is one of the important indicators for measuring product quality and after-sales service. When choosing torsional vibration dampers, priority should be given to products from well-known brands, as these brands typically have more advanced technology, stricter quality control, and a more comprehensive after-sales service system.

Price

Price is also one of the factors to consider when choosing torsional vibration dampers. The prices of torsional vibration dampers vary greatly among different brands and models, so it is necessary to choose the appropriate product based on one's budget and needs. However, it should be noted that price is not the only criterion for measuring product quality. Do not blindly pursue low prices while ignoring product performance and quality.

Installation and maintenance

When choosing torsional vibration dampers, it is also necessary to consider their ease of installation and maintenance. Some brands' torsional vibration dampers are designed to be more user-friendly, with a simple and quick installation process, and lower maintenance costs in the later stages. This is undoubtedly an important consideration for car owners.

4, Market Status and Development Trends

With the continuous development of the passenger car market and the increasing demand for vehicle performance from consumers, the torsional vibration damper market has also shown the following development trends:

Continuous technological innovation

In order to meet consumers' higher demands for vehicle performance and comfort, torsional vibration damper manufacturers are constantly introducing new technologies and products. For example, some high-end car models have begun to adopt more advanced electromagnetic or hydraulic torsional vibration dampers, which have higher damping effects and more precise control capabilities.

Product differentiation competition

With the intensification of market competition, manufacturers of torsional vibration dampers have begun to focus on differentiated product competition. They attract consumers' attention and enhance market competitiveness by developing products with unique features and characteristics.

Environmental protection and energy conservation have become trends

With the increasing global awareness of environmental protection and the worsening energy crisis, manufacturers of torsional vibration dampers have also begun to pay attention to the environmental and energy-saving performance of their products. They reduce the energy consumption and emissions of their products by using more environmentally friendly materials and processes, thereby meeting the environmental needs of consumers.

Continuous improvement of after-sales service

In order to improve customer satisfaction and brand image, torsional vibration damper manufacturers continuously improve their after-sales service system. They win the trust and support of consumers by establishing a more comprehensive after-

sales service network and providing higher quality after-sales service.

5, Conclusion

In summary, as an important component of the vehicle transmission system, passenger car torsional vibration dampers have a crucial impact on the driving stability, ride comfort, and safety of the vehicle. When choosing torsional vibration dampers, buyers need to pay attention to their adaptability, performance, brand, price, installation and maintenance, and make wise decisions based on market conditions and development trends. At the same time, we also hope that passenger car manufacturers and torsional vibration damper manufacturers can continuously innovate and improve, providing consumers with higher quality, environmentally friendly, and energy-saving products and services.



Dongfeng (Shiyan) Torsional Damper Company Limited



gjh.8266@163.com



dongfengtorsionaldamper.com

10th Floor, Building B, Donghe Center, Dongfeng 3rd Road, Wuhan Economic and Technological Development Zone, China