



## Car Torsional Vibration Damper Modern Small-scale Package

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Model Number: 109197-00-03
- Minimum Order Quantity: 100 piece
- Price: EXW 82.8CNY/piece
- Packaging Details: Metal mesh box packaging
- Delivery Time: Spot goods
- Payment Terms: T/T
- Supply Ability: Annual production of 500000 pieces



### Product Specification

- Compatibility: Fits Most Car Models
- Material: Steel
- Operating Temperature: -40°C To 120°C
- Installation Method: Bolt-on
- Certifications: ISO 9001, CE
- Color: Black
- Maintenance: Low Maintenance Required
- Model: XYZ-100
- Installation: Easy To Install
- Efficiency: Effectively Reduces Vibration By 80%
- Function: Reduce Torsional Vibration
- Warranty: 1 Year
- Package Contents: Car Torsional Vibration Damper
- Size: 10 Inches
- Durability: Highly Durable

## Product Description

Introduction to the selling points of torsional vibration dampers for passenger cars

In modern passenger car design, torsional vibration damper (TVD) plays a crucial role as a key transmission system component. It can not only effectively reduce the vibration and noise of the transmission system, but also improve the driving comfort, fuel economy, and overall reliability of the vehicle. This article will provide a detailed introduction to the multiple selling points of torsional vibration dampers for passenger cars, helping consumers and car manufacturers better understand their importance and advantages.

### 1, Improve driving comfort

#### Reduce vibration and noise

During the driving process of passenger cars, especially when shifting gears at low speeds or accelerating rapidly, the transmission system often generates significant torsional vibrations. These vibrations not only affect driving comfort, but may also cause damage to the vehicle structure. The torsional vibration damper can effectively absorb and disperse the vibration energy through its internal damping material or spring mechanism, thereby reducing the vibration and noise transmitted to the cockpit and improving the riding experience.

#### Improve the smoothness of gear shifting

In manual transmission vehicles, the impact sensation during gear shifting is often caused by torsional vibration of the transmission system. The torsional vibration damper can reduce this impact, making the shifting process smoother, especially when switching between low gears, reducing jerkiness and improving driving smoothness and comfort.

### 2, Enhance the reliability of the transmission system

#### Extend the lifespan of the transmission system

The torsional vibration in the transmission system can cause additional wear on components such as gears, bearings, and drive shafts. By reducing vibration, torsional vibration dampers can significantly reduce fatigue damage to these components, extend the overall service life of the transmission system, and reduce maintenance and replacement costs.

#### Protect the engine and transmission

Twisted vibration may also cause damage to key components such as the output shaft and flywheel of the engine and transmission. As a part of the transmission system, torsional vibration dampers can absorb vibration energy, reduce the impact on these components, protect them from damage, and improve the reliability of the entire vehicle.

### 3, Improve fuel economy

#### Optimize engine performance

Twisted vibration can affect the smoothness of engine operation, leading to insufficient fuel combustion and increased fuel consumption. The torsional vibration damper reduces vibration, making the engine run more smoothly and optimizing fuel combustion efficiency, thereby improving fuel economy.

#### Reduce power loss

The torsional vibration in the transmission system can also cause loss of power transmission, affecting the acceleration performance and fuel economy of the vehicle. The torsional vibration damper reduces vibration, improves the efficiency of power transmission, reduces power loss, and makes the vehicle more fuel-efficient.

### 4, Adapt to multiple powertrains

#### Compatible with fuel vehicles and new energy vehicles

With the popularization of new energy vehicles, torsional vibration dampers have also undergone corresponding technological upgrades to meet the needs of different powertrains. Whether it is a gasoline vehicle, hybrid vehicle, or pure electric vehicle, torsional vibration dampers can provide effective vibration control to ensure the stable operation of the transmission system.

#### Suitable for different types of transmissions

The torsional vibration damper is not only suitable for manual transmissions, but also widely used in different types of transmission systems such as automatic transmissions, dual clutch transmissions, and continuously variable transmissions. They can be designed and optimized according to the characteristics of different transmissions, providing the best vibration control effect.

### 5, Trends towards intelligence and integration

#### Intelligent control

The torsional vibration dampers in modern passenger cars are becoming increasingly intelligent. By integrating sensors and control systems, they can monitor the vibration of the transmission system in real time and make dynamic adjustments as needed. This intelligent control not only improves the accuracy of vibration control, but also makes torsional vibration dampers more adaptable to the needs of different working conditions.

#### Integrated design

With the development of lightweight automobiles, torsional vibration dampers are also being designed towards integration. By integrating multiple functional components together, not only does it reduce the number and weight of parts, but it also improves space utilization and reduces production costs. This integrated design makes torsional vibration dampers more compact and efficient, in line with the trend of modern automotive design.

### 6, Customized solutions

#### Optimization for specific vehicle models

Due to differences in powertrain, chassis structure, and driving performance, different vehicle models have varying requirements for torsional vibration dampers. Therefore, many torsional vibration damper manufacturers provide customized solutions designed and optimized according to the characteristics of the vehicle model to ensure the best vibration control effect.

#### Meet the needs of different users

In addition to customized solutions for specific vehicle models, torsional vibration dampers can also be customized according to the needs of different users. For example, for vehicles that pursue sporty performance, torsional vibration dampers with higher damping characteristics can be provided; For models that prioritize comfort, torsional vibration dampers with better isolation effects can be chosen.

### 7, Environmental Protection and Sustainable Development

#### Environmentally friendly materials

Modern torsional vibration dampers are increasingly emphasizing the use of environmentally friendly materials in the manufacturing process, such as recyclable metals, bio based plastics, etc. These materials not only reduce environmental pollution during the production process, but also lower the cost of waste disposal, in line with the concept of sustainable development.

#### Reduce energy consumption

The torsional vibration damper improves the fuel economy of the vehicle by reducing the vibration and noise of the transmission system, thereby reducing energy consumption and emissions. This is not only beneficial for environmental protection, but also in line with the national requirements for energy conservation and emission reduction.

## 8. Quality assurance and after-sales service

### High quality manufacturing

As an important component of the transmission system, the quality of torsional vibration dampers directly affects the reliability and safety of the entire vehicle. Therefore, many manufacturers adopt advanced processes and equipment in the manufacturing process to ensure that the quality and performance of their products reach international advanced levels.

### Improve after-sales service

In addition to high-quality products, many torsional vibration damper manufacturers also provide comprehensive after-sales service. They have a professional technical support team and after-sales service center, which can promptly solve problems encountered by users during use, ensuring the normal operation of the product and extending its service life.

### epilogue

In summary, passenger car torsional vibration dampers have significant advantages in improving driving comfort, enhancing transmission system reliability, improving fuel economy, adapting to various powertrains, intelligent and integrated trends, customized solutions, as well as environmental protection and sustainable development. It is not only an indispensable part of the modern passenger car transmission system, but also a key factor in improving vehicle performance and quality. With the continuous advancement of automotive technology and the increasing demand for vehicle performance from consumers, torsional vibration dampers will continue to play a more important role in providing high-quality, reliable, and environmentally friendly transmission system solutions for passenger cars.



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