



## Commercial Vehicle Torsional Vibration Damper CUMMINS Heavy Engine Parts

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Model Number: 1005243-EE54R
- Minimum Order Quantity: 100 piece
- Packaging Details: Metal mesh box packaging
- Delivery Time: Spot goods
- Payment Terms: T/T
- Supply Ability: Annual production of 50000 pieces



### Product Specification

- Installation: Bolt-on
- Material: Steel
- Maintenance: Low
- Warranty: 1 Year
- Application: Commercial Vehicles
- Installation Method: Bolt-on
- Country Of Origin: China
- Size: Standard
- Function: Reduce Torsional Vibration
- Certifications: ISO 9001, CE
- Weight: 5 Kg
- Durability: High
- Compatibility: Fits Most Commercial Vehicle Engines
- Color: Black
- Package Contents: Torsional Vibration Damper



### More Images



## Product Description

Commercial vehicle torsional vibration shock absorber - robust power, guarding the solid foundation of long-distance transportation introduction

In the field of commercial vehicles, every long-distance transportation is a severe test of vehicle performance. Especially in complex and changing road conditions, the vibration problem of the transmission system is particularly prominent. Vibration not only affects driving comfort, but may also cause damage to vehicle components, reduce service life, and even threaten driving safety. Therefore, choosing a high-performance torsional vibration damper is crucial for commercial vehicles. This article will provide a detailed introduction to the relevant knowledge of commercial vehicle torsional vibration dampers, including their working principle, importance, selection points, and our product advantages, aiming to provide a comprehensive and in-depth damping solution for your commercial vehicle.

### 1, Working principle of torsional vibration dampers for commercial vehicles

The torsional vibration damper of commercial vehicles is an important component of the transmission system, whose main function is to absorb and dissipate the torsional vibration generated by the transmission shaft during operation. When the torque output by the engine is transmitted to the wheels through the transmission shaft, the transmission shaft will produce torsional vibration due to various factors such as uneven road surfaces, changes in engine speed, etc. If this vibration is not controlled, it can cause damage to various components of the transmission system and reduce vehicle performance.

The working principle of torsional vibration dampers is based on their internal elastic and damping elements. When the transmission shaft generates torsional vibration, elastic elements (such as rubber, springs, etc.) will absorb some of the vibration energy and convert it into thermal energy or other forms of energy to dissipate. At the same time, damping components (such as hydraulic oil, damping plates, etc.) will dampen vibration, slow down the propagation speed of vibration, and further reduce the impact of vibration on the transmission system.

### 2, The importance of torsional vibration dampers for commercial vehicles

#### Improve driving comfort

In long-distance transportation, driving comfort is crucial for drivers of commercial vehicles. Torsion shock absorbers can effectively reduce the vibration of the transmission system, making the vehicle travel smoother, reducing driver fatigue, and improving driving safety.

#### Protect the transmission system

The transmission system is an important component of commercial vehicles, and its performance directly affects the vehicle's operating efficiency and service life. The torsional vibration damper can absorb and dissipate the torsional vibration generated by the transmission shaft, reduce the impact and wear of vibration on various components of the transmission system, and extend the service life.

#### Improve fuel economy

Vibration can increase energy loss in the transmission system and reduce power transmission efficiency. The torsional vibration damper can improve power transmission efficiency by reducing vibration, thereby reducing fuel consumption and improving fuel economy.

#### Ensure the safety of goods

In long-distance transportation, the safety of goods is one of the most concerned issues for commercial vehicle users. Torsion shock absorbers can reduce the vibration during vehicle operation, lower the risk of damage to goods due to vibration, and ensure the safety of goods.

### 3, Key points for selecting torsional vibration dampers for commercial vehicles

#### Applicable vehicle models

Different models of commercial vehicles have different requirements for torsional vibration dampers. When making a purchase, the first thing to ensure is that the selected shock absorber is suitable for your vehicle model. This includes considering factors such as the weight of the vehicle, the layout of the transmission system, and the output torque of the engine.

#### Shock absorption performance

Shock absorption performance is the core indicator of torsional vibration dampers. High quality shock absorbers should be able to efficiently absorb and dissipate torsional vibrations generated by the transmission shaft, making the vehicle travel more smoothly. When purchasing, attention can be paid to the damping efficiency, damping characteristics, and material and performance parameters of the elastic components of the shock absorber.

#### durability

Commercial vehicles often face harsh road conditions and complex operating environments during long-distance transportation. Therefore, torsional vibration dampers need to have good durability and be able to withstand long-term vibration impact and wear. When purchasing, attention can be paid to parameters such as the service life, wear resistance, and fatigue resistance of shock absorbers.

#### Installation and maintenance

The installation and maintenance of torsional vibration dampers are also factors to consider when selecting. High quality shock absorbers should have standardized installation interfaces and a simple installation process, making it convenient for users to install and replace them. Meanwhile, the maintenance of shock absorbers should also be simple and convenient, reducing the maintenance costs for users.

#### Brand and reputation

Brand and reputation are important reference factors when choosing torsional vibration dampers. Famous brands usually have more advanced technology and stricter quality control systems, which can provide users with higher quality products and services. Meanwhile, user reputation can also reflect the actual performance and user experience of shock absorbers, which helps users make more informed purchasing decisions.

### 4, Our commercial vehicle torsional vibration shock absorber product advantages

As a professional manufacturer in the field of commercial vehicle accessories, we are committed to providing users with high-quality and high-performance torsional vibration shock absorber products. Our product has the following advantages:

#### Advanced design concepts

Our torsional vibration dampers adopt advanced design concepts, combined with the characteristics of commercial vehicle transmission systems, to optimize shock absorption performance and durability. Through precise simulation analysis and experimental verification, we have ensured that the shock absorber can maintain stable performance under various working conditions.

#### High quality material selection

We use high-quality materials to manufacture torsional vibration dampers, including high-strength alloys, high-performance rubber, and high-quality hydraulic oil. These materials have good wear resistance, fatigue resistance, and high temperature resistance, which can ensure the stable performance of shock absorbers in harsh operating environments.

Exquisite craftsmanship in manufacturing

We have advanced manufacturing processes and equipment to ensure the manufacturing accuracy and consistency of torsional vibration dampers. Through strict quality control and testing processes, we ensure that every shock absorber meets high standards of quality requirements.

#### Rich product range

We offer a wide range of commercial vehicle torsional shock absorber products, including multiple models and specifications, to meet the needs of different vehicle models and usage scenarios. Whether your commercial vehicle is used for urban delivery, long-distance transportation, or special industry applications, we can provide the most suitable solution.

#### Comprehensive after-sales service

We provide comprehensive after-sales service, including product consultation, technical support, installation guidance, and warranty services. Our professional team will provide you with assistance and support at any time to ensure that your commercial vehicle torsional vibration dampers always maintain their optimal working condition.

#### 5, Product Application Cases

The following are practical application cases of our commercial vehicle torsional vibration dampers in some typical application scenarios:

##### Long distance transport truck

Long distance transport trucks often need to travel in complex and changing road conditions, and the vibration problem of the transmission system is particularly prominent. Our torsional vibration dampers can effectively reduce vibration, improve driving comfort, protect the transmission system, reduce fuel consumption, and improve transportation efficiency.

##### Urban delivery vehicles

Urban delivery vehicles require frequent start stop and acceleration/deceleration, which has a significant impact on the transmission system. Our torsional vibration dampers can absorb and dissipate the vibrations generated by these impacts, protect various components of the transmission system, and extend their service life.

##### Special industry applications

In some special industries, such as mining and oil fields, commercial vehicles need to face even harsher operating environments. Our torsional vibration dampers have excellent durability and fatigue resistance, which can maintain stable performance in these environments and ensure the normal operation of vehicles.

#### 6, Conclusion

Commercial vehicle torsional vibration dampers are important components for ensuring long-distance transportation safety and improving transportation efficiency. Choosing a high-performance torsional vibration damper is crucial for commercial vehicle users. We are committed to providing users with high-quality and high-performance commercial vehicle torsional vibration shock absorber products through advanced design concepts, high-quality material selection, exquisite craftsmanship manufacturing, and comprehensive after-sales service. Whether your commercial vehicle is used for long-distance transportation, urban distribution, or special industry applications, we can provide the most suitable solution to provide robust power for your commercial vehicle and safeguard the solid foundation of long-distance transportation.

In the future development, we will continue to adhere to the principle of "quality first, customer first", constantly innovate and improve, and provide users with higher quality products and services. Looking forward to working together with you to create a better tomorrow!



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