



## Engine Cast Iron Bracket Light Truck Fan Bracket Accessories

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Minimum Order Quantity: 100 piece
- Packaging Details: Wooden box packaging
- Delivery Time: Spot goods
- Payment Terms: T/T
- Supply Ability: Annual production of 500000 pieces



### Product Specification

- Type: Silicone Oil Shock Absorber
- Function: Vibration Damping
- Certifications: IATF 16949:2016
- Installation: Bolt-On
- Efficiency: Effective
- Size: Standard
- Material: Viscous
- Warranty: 1 Year
- Operating Temperature: -40°C To 120°C
- Compatibility: Universal
- Installation Method: Bolt-on
- Color: Black
- Highlight: **Light truck Fan bracket,  
Engine Cast iron Bracket,  
Accessories Cast iron Bracket**



### More Images



## Product Description

### Comprehensive Introduction to Engine Support Castings

The importance of engine support castings, as an indispensable part of modern mechanical manufacturing industry, is self-evident. As an important component for supporting and fixing the engine, the engine bracket casting not only needs to bear the weight of the engine itself, but also needs to cope with various vibrations and impacts generated during driving. Therefore, its design, material selection, and production process have all been rigorously considered and optimized.

#### 1, Design and Function

The design of engine support castings primarily considers their stability and safety. Through precise calculations and simulations, engineers have determined the optimal structure of the bracket to ensure that it can withstand the weight and vibration of the engine. At the same time, the design of the bracket also needs to consider the layout and installation position of the engine, ensuring a tight and stable connection between the bracket and the engine.

In addition to supporting and fixing the engine, engine support castings also have the function of buffering vibration. Through reasonable design and material selection, the bracket can effectively absorb and reduce the impact of vibration on the vehicle and passengers, improving driving comfort and safety.

#### 2, Material selection

The material selection of engine support castings is crucial. Generally speaking, brackets need to have high strength, toughness, and good wear resistance. Therefore, commonly used materials include cast iron, cast steel, and aluminum alloys. These materials not only have excellent mechanical properties, but also have relatively low costs, making them suitable for large-scale production.

In the selection of materials, it is also necessary to consider their castability and heat treatment performance. Materials with good castability can more easily form complex shapes and structures, while materials with good heat treatment performance can further improve their mechanical properties through heat treatment.

#### 3, Production process

The production process of engine support castings includes multiple stages such as mold design, melting, pouring, cooling, cleaning, and heat treatment. Among them, mold design is one of the key links in production. Designers need to design molds based on the shape and structure of the brackets to ensure the accuracy and durability of the molds.

During the melting process, it is necessary to control the melting temperature and time to ensure that the composition and properties of the metal material meet the requirements. When pouring, it is necessary to control the pouring speed and temperature to avoid defects such as pores and inclusions. The cooling and cleaning process is to remove impurities such as burrs and oxide scales from the surface of the casting, and improve the surface quality of the casting.

Finally, heat treatment is an important step in improving the mechanical properties of castings. By heat treatment, residual stress and deformation in castings can be eliminated, and the strength and toughness of castings can be improved.

#### 4, Summary

As an important component of modern mechanical manufacturing, engine support castings have undergone strict consideration and optimization in their design, material selection, and production process. With the continuous development of technology, it is believed that the performance and quality of engine support castings will be further improved in the future.



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