



Engine Cast Iron Bracket Water Pump Bracket Engine Stability

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Model Number: 10A06-01040
- 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

- Compatibility: Fits Most Engines
- Vibration Resistance: Yes
- Melting Point: High
- Certifications: IATF 16949:2016
- Machinability: Easy
- Mounting Position: Engine Block
- Usage: Automotive Engines
- Mounting Type: Universal
- Stability: Strong And Sturdy
- Included Components: Bracket, Bolts
- Mounting Location: Engine Block
- Function: Vibration Damping
- Finish: Rust Resistant
- Surface Treatment: Powder Coating
- Installation Method: Bolt-on



More Images



Product Description

Engine cast iron bracket: a stable backing for the car engine

In the automobile industry, the cast iron engine bracket is one of the important components of the engine system. Its function is similar to the skeleton of the automobile engine, providing solid support and stable installation for the engine. This article will provide an in-depth introduction to the structural characteristics, functions, manufacturing processes and wide application of cast iron engine brackets in the automotive industry.

Structural features:

Engine cast iron brackets are usually made of cast iron materials, which have excellent strength and rigidity and can withstand the weight of the engine and various external forces, maintaining the stability and safety of the engine during operation. Its main structural features include:

High strength and rigidity: The cast iron bracket is made of high-strength cast iron material, which can withstand the weight of the engine as well as the challenges of road vibration and steering force, maintaining a stable installation of the engine.

Complex structural design: The engine cast iron bracket has a complex design structure, taking into account the installation position and connection method of each engine component to ensure the safety and stability of the engine.

Vibration absorption and noise reduction: The cast iron bracket can effectively absorb and reduce vibration and noise generated when the engine is working, improving driving comfort and riding experience.

Corrosion resistance and wear resistance: Cast iron brackets have strong corrosion resistance and wear resistance, and can maintain stable performance and extend service life under harsh environmental conditions.

function:
Supporting the engine: The cast iron engine bracket is the main support and fixation component of the engine. It firmly installs the engine on the vehicle chassis and ensures the stability and safety of the engine during driving.

Absorb vibration: The engine will produce various vibrations when it is working. The cast iron bracket can effectively absorb and reduce the transmission of vibration through its structure and material characteristics, reducing the impact of engine vibration on the vehicle and improving driving stability.

Reduce noise: The quality and structural design of the cast iron bracket can effectively reduce the noise generated by the engine, improving the driving comfort and riding experience of the car.

Protect the engine: The cast iron engine bracket can provide effective protection when the engine is working, reducing engine damage caused by factors such as road bumps and collisions, and extending the service life of the engine.

Manufacturing process:

Mold design: Manufacturing cast iron engine brackets first requires mold design. The design of the mold takes into account the shape, size and internal structure of the bracket to ensure the accuracy and quality of the casting.

Casting: Casting is a key step in the manufacture of cast iron engine brackets. Molten iron is injected into a pre-made mold, and then cooled and solidified to form a casting.

Heat treatment: After casting, heat treatment is usually required to improve its structure and performance, and increase strength and wear resistance.

Mechanical processing: After the cast iron bracket is initially formed, it needs to undergo precision mechanical processing, including milling, drilling, turning and other processes, in order to achieve the size and surface quality required by the design.

Surface treatment: Finally, cast iron brackets may require surface treatment, such as anti-corrosion paint or coating, to improve their corrosion resistance and aesthetics.

Applications in the automotive field:

Cast iron engine brackets are widely used in various types of automobiles, including cars, trucks, buses, etc. They not only ensure the stable installation and operation of the engine, but also improve the safety and driving comfort of the car.

All in all, as an important part of the car engine, the cast iron engine bracket assumes multiple functions such as support, shock absorption, noise reduction and protection, providing a solid guarantee for the safety, stability and comfort of the car.

With the continuous development of automobile technology, it is believed that cast iron engine brackets will continue to play an important role in the future and will be continuously optimized and improved to adapt to the development needs of the automobile industry.



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