



Engine Cast Iron Bracket Air Conditioning Compressor Bracket Corrosion Resistance

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Model Number: 10A60-01045
- 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

- Efficiency: Effective
- Tensile Strength: High
- Cost: Affordable
- Operating Temperature: -40°C To 120°C
- Function: Vibration Damping
- Color: Black
- Durability: High
- Machinability: Easy
- Weather Resistance: Yes
- Melting Point: High
- Installation: Bolt-on
- Mounting Location: Engine Block
- Usage: Automotive Engines
- Highlight: **Corrosion resistance Engine Cast Iron Bracket, Air conditioning compressor bracket**



Product Description

Engine cast iron bracket: the solid foundation of automobile power

In the chassis system of a car, the engine cast iron bracket plays a vital role. It is not only a supporting and fixing component of the engine, but also can effectively absorb vibration, reduce noise, and protect the engine from the external environment and collisions. This article will delve into the structural characteristics, functional role, manufacturing process 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, and their structural design has undergone precise calculations and engineering optimization to ensure the stability and safety of the engine under various working conditions. Its main features include:

High strength and rigidity: The cast iron bracket has excellent strength and rigidity and can withstand the weight of the engine as well as challenges from road vibrations and steering forces, maintaining a stable installation of the engine.

Vibration absorption and noise reduction: Various vibrations and noises are generated when the engine is working. Through its quality and structural characteristics, the cast iron bracket can effectively absorb and reduce vibration transmission, reduce the noise level when the engine is working, and improve driving comfort.

Corrosion resistance and wear resistance: Due to the characteristics of its cast iron material, cast iron brackets have strong corrosion resistance and wear resistance, and can maintain stable performance and extend service life under harsh environmental conditions.

Complex structure and precision machining: The design structure of the engine cast iron bracket is relatively complex, taking into account the installation position and connection method of each engine component to ensure the safety and stability of the engine. The manufacturing process requires precise mold design and processing to ensure the accuracy and quality of castings.

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 to ensure 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, reduce the impact of engine vibration on the vehicle, and improve driving stability.

Reduce noise: The quality and structural design of the cast iron bracket can effectively reduce the noise generated by the engine and improve 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, reduce engine damage caused by factors such as road bumps and collisions, and extend 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.

Future outlook:

In the future, engine cast iron brackets will continue to develop in the direction of being lighter, higher strength, and more intelligent. It is expected that more advanced materials and manufacturing processes will be used to meet the ever-increasing requirements of automobiles for performance, safety and environmental protection, and to contribute to the sustainable development of the automobile industry.



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