Dongfeng (Shiyan) Torsional Damper Company Limited DFTD dongfengtorsionaldamper.com

Automotive / Industrial Engine Iron Casting Bracket Stable And Durable

Basic Information

. Place of Origin: China Brand Name: Dongfeng

IATF 16949:2016 · Certification:

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

. Strength: Strong

Package Contents: 1 Engine Cast Iron Bracket

• Density: High

Function: Vibration Damping

• Melting Point: High

• Mounting Position: Engine Block

Color: Black

IATF 16949:2016 Certifications:

• Material: Cast Iron

-40°C To 120°C • Operating Temperature:

Weather Resistance: Yes • Installation Method: Bolt-on Mounting Location: Engine Block Rust Resistant Finish:

High · Durability:

Product Description

Engine cast iron bracket: solid support, driving the future

In the complex mechanical structure of automobiles, the cast iron bracket of the engine plays a crucial role as a key component connecting the engine and the body. It not only carries the weight of the engine, but also effectively isolates and reduces engine vibration during vehicle operation, ensuring smooth and safe driving. This webpage details the structure, advantages, applications, and future development trends of engine cast iron brackets.

1, Construction and Function of Engine Cast Iron Bracket

Engine cast iron bracket, as the name suggests, is mainly made of cast iron material and is a precision designed and structurally robust automotive component. It usually consists of three parts: the bracket body, connecting components, and shock-absorbing elements. The bracket body is the main load-bearing structure, which is precision cast and has high strength and good wear resistance; The connector is responsible for tightly connecting the bracket body to the engine and vehicle body, ensuring the stability of the overall structure; Shock absorbing components, such as rubber bushings or hydraulic shock absorbers, can effectively absorb and disperse the vibrations generated during engine operation, improving driving comfort. 2. Reasons for choosing cast iron material

High strength and durability: Cast iron is known for its excellent strength and durability, which can withstand the enormous pressure and vibration generated during engine operation, ensuring long-term stable operation of the engine.

Cost effectiveness: Compared to other materials such as aluminum alloy and cast iron, the cost of these materials is lower, which is beneficial for reducing the production cost of the entire vehicle and enabling more consumers to enjoy a highperformance driving experience.

Good thermal stability: Although cast iron has lower thermal conductivity than aluminum alloy, its thermal stability becomes an advantage in certain application scenarios, effectively preventing material deformation or failure caused by overheating. Easy to process and recycle: Cast iron materials are easy to shape through casting processes and have good recyclability, meeting environmental requirements.

3, Application scenarios of engine cast iron brackets

Engine cast iron brackets are widely used in various types of automobiles, including but not limited to:

Passenger cars: Whether it is a sedan or SUV, the cast iron engine bracket is a key component to ensure stable engine operation.

Commercial vehicles: For heavy-duty trucks, buses, and other commercial vehicles, cast iron brackets have become the preferred engine support solution due to their high strength and durability.

High performance vehicles: Although lightweight is the pursuit in high-performance vehicles such as racing cars and sports cars, cast iron materials are still widely used in certain key areas, such as engine mounts, due to their reliability and durability. Diesel engine vehicles: Diesel engines have higher requirements for brackets due to their high torque and strong vibration, making cast iron brackets an ideal choice.

4, Advantages and Challenges of Engine Cast Iron Bracket Advantages:

Stability: The high strength and rigidity of the cast iron bracket ensure the stable support of the engine under various working

Durability: Specially treated cast iron brackets can maintain a long service life even in harsh environments.

Economy: The cost-effectiveness of cast iron brackets is high, which helps to reduce the production cost of the entire vehicle. Challenge:

Weight: Cast iron brackets are relatively heavy, which is not conducive to the lightweight design of vehicles and may affect fuel economy.

Thermal conductivity: Cast iron has poor thermal conductivity, which may affect the heat dissipation efficiency of the engine. Material innovation: With the development of lightweight materials such as aluminum alloy and carbon fiber, cast iron brackets are facing the challenge of material substitution.

5, Technological Innovation and Future Development

Faced with trends such as lightweighting and intelligence, engine cast iron brackets are also constantly evolving:

Lightweight design: By optimizing structural design, adopting thinner wall thickness and more efficient casting processes, the weight of the bracket is reduced while maintaining sufficient strength and durability.

Application of composite materials: Explore the composite application of cast iron with other lightweight materials, such as composite brackets of cast iron and aluminum alloy, to balance weight and performance.

Intelligent monitoring: integrating sensors and intelligent algorithms to achieve real-time monitoring of the status of the bracket, early warning of potential faults, and improving driving safety.

Environmentally friendly manufacturing: adopting green casting technology to reduce energy consumption and emissions in the production process, in line with the requirements of sustainable development.

6, User Guide and Maintenance Suggestions

For car owners, understanding the maintenance knowledge of engine cast iron brackets is equally important:

Regular inspection: Regularly check the fastening of the bracket to ensure that the connectors are not loose or damaged. Observation of abnormal noise: If you hear abnormal noise in the engine area while driving, you should promptly check whether the bracket is loose or damaged.

Professional maintenance: If the bracket is damaged, it should be replaced or repaired by a professional technician to ensure correct installation and avoid safety hazards.

Avoid collisions: When driving, pay attention to avoiding chassis collisions to protect the bracket from external damage.

The cast iron bracket for the engine, as the strong backing of the car's heart - the engine, its importance is self-evident. With the advancement of technology and changes in the market, cast iron brackets are constantly innovating and developing to meet more stringent performance requirements and environmental standards. We believe that in the future world of automobiles, cast iron engine mounts will continue to play an irreplaceable role, providing every driver with a safer, more comfortable, and efficient driving experience. Whether now or in the future, the cast iron bracket of the engine is an important bridge connecting power and dreams.











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