



## Chassis Cast Iron Parts Air Storage Tank Bracket Assembly Customization

### Our Product Introduction

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#### Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Model Number: 1109015-KM5K1
- Packaging Details: Wooden box packaging
- Delivery Time: Spot goods
- Payment Terms: T/T
- Supply Ability: Annual production of 500000 pieces



#### Product Specification

- Surface Finish: Rough
- Machinability: Good
- Heat Resistance: High
- Hardness: High
- Strength: Durable
- Tensile Strength: High
- Country Of Origin: China
- Compatibility: Universal
- Durability: High
- Surface Treatment: Painted
- Material: Cast Iron
- Cost: Moderate
- Color: Black
- Usage: Automotive Industry
- Highlight: **Chassis Cast iron Parts.**

## Product Description

Automobile chassis castings: the cornerstone of solid support for vehicles

In the modern automobile industry, chassis cast iron parts play an indispensable role. They are like the skeleton of the car, supporting the weight and functional components of the entire vehicle. These cast iron parts not only need to withstand various pressures from uneven road surfaces, steering movements, etc., but also need to meet various requirements such as durability, safety, and lightweight. This article will delve into the importance of automotive chassis castings, manufacturing processes, and future trends.

importance:

Chassis cast iron parts are a key component of the automobile chassis structure. They are not only responsible for supporting the body and carrying various power components, but also play an important role in shock absorption, sound insulation and stability control during vehicle driving. From the perspective of overall vehicle performance and safety, the quality and stability of chassis castings directly affect the driving quality and driving safety of the car.

Manufacturing process:

Design and mold making: The manufacturing of chassis cast iron parts starts with precision design, and mold design is carried out according to the structural and functional requirements of the car. Subsequently, mold production is carried out through CNC machine tools and other equipment to ensure that the size and shape of the castings are accurate.

Casting: Casting is a key step in the manufacturing of chassis cast iron parts. Commonly used casting methods include sand casting, metal mold casting and die casting. In the casting process, molten iron is injected into a pre-made mold, and the cast iron is obtained after cooling and solidifying.

Heat treatment: After casting, iron castings usually need to be heat treated to improve their strength and hardness. The heat treatment process includes tempering, normalizing, etc., by controlling temperature and time, the structural structure of the casting is adjusted and its mechanical properties are improved.

Mechanical processing: After heat treatment, cast iron parts need to be precision machined to achieve the size and surface quality required by the design. Mechanical processing includes milling, drilling, turning and other processes to ensure the accuracy and precision of castings.

Surface treatment: Finally, cast iron parts may also require surface treatment, such as anti-corrosion paint spraying, galvanizing, sandblasting, etc., to improve their corrosion resistance and aesthetics.

Future trends:

Lightweight design: With the development of the automobile industry, lightweight design has become an industry trend. Future chassis cast iron parts will pay more attention to the optimization of materials and structures to reduce vehicle weight and improve fuel economy and environmental performance.

Intelligent manufacturing: With the advancement of Industry 4.0, intelligent manufacturing technology will gradually be applied to the production of chassis cast iron parts. Digital design, intelligent casting equipment and automated production lines will improve production efficiency and product quality.

Material innovation: The application of new materials will further improve the performance of chassis castings. For example, the application of high-strength cast iron, aluminum alloy and other materials will become the development direction to meet the needs of automobiles for high performance and lightweight.

Sustainable development: In the context of increasing environmental awareness, the production of chassis castings will pay more attention to resource conservation and environmental friendliness. Promote green manufacturing and recycling to achieve sustainable development.

The manufacturing of automobile chassis cast iron parts not only requires continuous innovation in technology and process, but also requires the joint efforts of all parties in the industry to meet the needs of the development of the automobile industry and provide a solid guarantee for safe, comfortable and environmentally friendly travel.



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