



## Chassis Cast Iron Parts Steering Support Device Engine Accessories

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Model Number: 10A075-01043
- 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

- Tensile Strength: Strong
- Cost: Moderate
- Surface Finish: Rough
- Compatibility: Universal
- Dimensional Accuracy: High
- Production Process: Casting
- Hardness: High
- Precision: High
- Application: Automotive Industry
- Weldability: Poor
- Weight: 5kg
- Surface Treatment: Painting
- Heat Resistance: High
- Material: Cast Iron
- Installation Method: Bolted



### More Images



## Product Description

Automobile chassis cast iron parts are an important part of automobile manufacturing. They bear key functions such as supporting the body, carrying the engine, suspension, and steering systems. In the modern automotive industry, chassis cast iron parts are favored for their excellent strength, wear resistance and shape diversity. This article will introduce in detail the characteristics, manufacturing processes, application fields and future development trends of automobile chassis cast iron parts.

### Features:

**Excellent strength and rigidity:** Chassis cast iron parts are usually made of high-strength cast iron materials, which have excellent tensile strength and rigidity and can withstand various dynamic loads and impact forces during car driving.

**Wear resistance and corrosion resistance:** When cars drive under different road conditions, chassis cast iron parts need to have good wear resistance and corrosion resistance to ensure long-term reliable operation.

**Shape complexity:** The manufacturing process of chassis cast iron parts is flexible and can achieve complex shapes and structures according to design requirements, providing better performance and safety for the car.

**Quality stability:** The manufacturing process is mature and the quality is controllable, which ensures the stability and consistency of chassis castings and helps improve the quality level of the entire vehicle.

### Manufacturing process:

**Casting:** Chassis iron castings are usually manufactured using casting processes, which mainly include sand casting, metal mold casting and die casting. Among them, sand casting is the most common process. Molten iron is injected into the sand mold through a casting mold, and then cooled and solidified to form a casting.

**Heat treatment:** Cast iron parts usually need to be heat treated after casting to improve their strength and hardness, eliminate internal stress, and enhance the stability of the material.

**Machining:** After preliminary shaping, cast iron parts need to undergo precision machining, including milling, drilling, turning and other processes, in order to achieve the size and surface quality required by the design.

**Surface treatment:** Finally, chassis castings may also require surface treatment, such as anti-corrosion paint spraying, galvanizing, sandblasting, etc., to enhance their corrosion resistance and aesthetics.

### Application areas:

**Body structure:** As an important supporting component of the car body, chassis cast iron plays a supporting and connecting role in the overall structure of the vehicle, ensuring the stability and safety of the car.

**Engine mount:** The automobile engine is usually installed on the chassis cast iron and is connected to the chassis through the engine mount, which effectively absorbs shock and reduces engine vibration and noise.

**Suspension system:** Chassis cast iron parts are also used for supporting components of automobile suspension systems, such as cantilevers, wishbones, etc., which ensure the smooth driving and comfort of the automobile by connecting suspension springs and shock absorbers.

**Steering system:** Key components such as the steering rack and steering rod in the automobile steering system are also often made of chassis cast iron, ensuring the vehicle's flexible steering and control performance.

### Future trends:

**Lightweight design:** With the development of the automobile industry, lightweight design has become an industry trend. In the future, chassis cast iron parts will pay more attention to the optimization of materials and structures to reduce the weight of the vehicle 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 castings, including digital design, intelligent casting equipment and automated production lines, to improve production efficiency and product quality.

**Material innovation:** The application of new materials will further improve the performance of chassis cast iron parts. The application of materials such as high-strength cast iron and aluminum alloys 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, and achieve sustainable development.

In general, automobile chassis cast iron parts are an important part of automobile manufacturing. While ensuring the safety and performance of automobiles, they also face the challenges of lightweight, intelligent and sustainable development.



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