



## Brake Axle System Cast Iron Rotary Shaft End Casting Steel Plate

### Our Product Introduction

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#### Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Model Number: 2902109-ND500
- 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

- Friction Coefficient: Low
- Compression Strength: High
- Manufacturing Process: Casting
- Usage: Braking System
- Material: Cast Iron
- Surface Treatment: Painted
- Surface Finish: Smooth
- Type: Axle System
- Weight: Heavy
- Compatibility: Universal
- Application: Automotive Industry
- Corrosion Resistance: Strong
- Color: Black
- Durability: High
- Installation Method: Bolt-on



#### More Images



## Product Description

Brake axle system castings: an important pillar of driving safety

In automotive engineering, brake axle system castings play a key role. They are not only an important part of the vehicle braking system, but also an important pillar in ensuring driving safety. This article will delve into the role, characteristics and importance of brake axle system castings in automotive engineering.

Function and characteristics

Brake axle system castings refer to key components used in the braking system, including brake discs, brake drums, brake calipers, etc. Their functions and characteristics are as follows:

**Brake discs and brake drums:** Brake discs and brake drums are the main friction elements in the braking system. The friction between the brake discs and brake drums and brake pads or brake shoes generates braking force to achieve vehicle stability. The casting part needs to have high strength, good wear resistance and thermal conductivity to ensure braking effect and safety.

**Brake calipers:** Brake calipers are one of the key components in the braking system. They are responsible for squeezing the brake pads or brake shoes against the surface of the brake disc or brake drum to generate friction to achieve braking. The casting part needs to have high precision, high strength and stability to ensure the normal operation of the braking system. Brake axle system castings are usually made of materials such as high-strength cast iron or alloy steel. They have good wear resistance, corrosion resistance and deformation resistance, and can maintain stable performance in high-temperature and high-pressure working environments.

Importance in Automotive Engineering

**Ensure driving safety:** Brake axle system castings directly affect the braking performance of the car and are a key factor in ensuring driving safety. High-quality castings can ensure the sensitivity and reliability of the braking system, improve the braking effect of the vehicle, and reduce the incidence of traffic accidents.

**Improve driving comfort:** The optimized design of the brake axle system casting can reduce noise and vibration during braking, improve driving comfort, and provide drivers with a more pleasant driving experience.

**Extend the life of parts:** High-quality castings have high wear resistance and corrosion resistance, which can reduce wear and corrosion of the braking system, extend the service life of parts, and reduce maintenance costs.

Technology development trends

With the continuous development of automobile manufacturing technology, brake axle system castings are also constantly innovating and improving:

**Material technology:** Research and develop new high-strength, high-wear-resistant casting materials, such as carbon fiber reinforced composite materials, ceramic matrix composite materials, etc., to improve the performance and durability of castings.

**Manufacturing process:** Adopt advanced casting technology and processing technology, such as digital casting, precision casting, etc., to achieve high-precision manufacturing and quality control of castings.

**Intelligent technology:** Introduce intelligent sensors and control systems to realize intelligent monitoring and control of the braking system and improve the safety and reliability of the braking system.

Conclusion

As a key component of the automobile braking system, brake axle system castings have an important impact on driving safety and driving comfort. With the continuous development and innovation of automotive engineering technology, it is believed that brake axle system castings will play a more important role in the future, providing a more reliable guarantee for the development of the automotive industry and the safe driving of drivers.



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