



BRAKES

Brake linings and drums

Renault Trucks offer

Renault Trucks brake drums and linings have been developed to work together and are designed for each model. They feature optimal safety, low noise levels, absence of vibration and a long service life.

All parts making up the drum brake system are available as After Sales items. When changing the brake linings, it is also recommended to check the condition of the brake drums.

CHARACTERISTICS	BENEFITS
The brake drum material generates maximum braking efficiency and optimal service life.	Safe braking for optimized operating costs.
Renault Trucks feature for vehicle type, weight and operation, all for optimal performance.	Safe braking for optimized operating costs.
Technical specifications meeting all Renault Trucks brake testing criteria, ensuring that brake drums work perfectly with other components of the vehicle's braking system.	Safe braking for optimized operating costs.
The material has excellent heat transfer capability.	Safe braking, even in extreme temperatures.
Patented durable alloy material with excellent heat transfer capability also reducing the risk of cracks.	Safe braking and long service life.

Key arguments

Quality materials

- For linings: complex friction material mixing different substances
- For drums: patented durable alloy material

Renault Trucks original brake linings are made up of around 25 different substances meeting Renault Trucks' very demanding braking characteristics:

- Abrasive materials that generate friction and remove both dirt and corrosion;
- Lubricant which preserves both the linings and brake drum;
- Reinforcing fibres to extend the components' lifespan.

Made from a durable alloy, the brake drum is machined inside and out to avoid variations in thickness and maintain consistent ovalness.

High thermal properties

- Excellent heat transfer capacity
- Lower risk of cracking and premature degradation

Made of heat resistant material, the brake linings feature excellent heat transfer capacity to ensure braking is safe under all conditions.

Due to their composition, Renault Trucks brake drums enable a large amount of braking energy to be absorbed with high intensity. When combined with Renault Trucks brake linings, the risk of cracking and degradation is significantly further reduced.

A specific design for every vehicle

- Adapted to the type of vehicle and its use

The original Renault Trucks brake drum components are adapted to the vehicle, its type of use and tonnage. Similarly, the friction material is developed according to the type of vehicle, its weight and use, to provide the most appropriate lining.

An environmentally friendly composition

- Asbestos and lead-free materials
- Reduced environmental impact

Substances used for the friction material are specifically chosen to reduce its impact on the environment. All Renault Trucks original brake linings are free of asbestos and lead.

Due to their optimised weight and long useful life, Renault Trucks brake drums help to reduce waste and have a lower impact on the environment.

Customer benefits

Comfort

- Compliance with a strict industrial process
- Demanding tests carried out during the development phase to ensure optimal braking performance

The trims feature grooved edges and bevelled edges to reduce noise and vibration. The friction material is also riveted to the brake shoes ensuring a longer operational life.

The use of adaptable parts can cause the following problems:

- Cracks around the rivet holes due to excessive riveting force between brake shoes and linings;
- Accumulated dirt particles on the linings' surface;
- Linings not suited to the brake shoes' geometry result in premature wear

Safety

- Compliance with a strict industrial process
- Demanding tests carried out during the development phase to ensure optimal braking performance
- All Renault Trucks brake linings and drums undergo exhaustive testing procedures to maintain our superior safety and quality standards. The parts are tested on test benches and on the track, followed by further tests in the field to guarantee optimal performance.

Following analyses carried out on adaptable brake drums, it was shown that these products are far from complying with Renault Trucks specifications:

- materials with chemical compositions and degrees of hardness inconsistent with Renault Trucks specifications
- dimensions inconsistent with original Renault Trucks parts:
 - 1) burrs around the wheel axle housing holes -> risk of incorrect axle assembly and substandard wheel holding
 - 2) wheel axle housing diameter too large -> risk of inferior axle gripping when tightening the wheels
 - 3) thickness exceeds tolerance (-1.5mm on average) -> risk of the drum breaking between the fixing section and braking section
 - 4) inferior flatness on the bearing surface -> risk of the drum becoming deformed when tightened.

The risks incurred by using adaptable parts are high and the collateral damage expensive:

- Insufficient deceleration;
- Unexpected braking of the vehicle;
- Sudden wheel locking;
- Risk of shifting when braking.

Peace of mind

- Guarantee of optimal integration
- Adequate friction combination between linings and drum
- 2 years warranty

The correct and tested association between the lining and the brake drum provides a superior overall life cycle for both lining and drum, resulting in more uptime and lower costs for the customer.

The original Renault Trucks drum guarantees its geometry is maintained under strong braking. Its design allows the entire brake drum surface to be in contact with the brake linings, whatever the temperature of the drum.

Renault Trucks original parts fitted in a Renault Trucks workshop approved by a certified technician are guaranteed for 2 years.