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NTN Europe certifies its entire brake range with ECE R90 approval

To satisfy market demands and comply with various mandatory safety criteria, NTN Europe – the leading manufacturer of precision mechanical assemblies – is certifying all of its brake products with ECE R90 approval. Over the course of 2023, its full line of brake discs with integrated wheel bearing – 35 part numbers in all – will be labelled ECE R90 compliant as a result. This pledge of quality and safety also means peace of mind and driving comfort for the brand's customers.

Required certification for everyone's safety

Users' safety has always been a priority for NTN Europe. This is why over the course of 2023, the manufacturer's full range of disc hub kits will be certified to the new ECE R90 regulations. Optional for some components up till now, these regulations are becoming mandatory for all brake system components.

Thanks to its expertise, NTN Europe subjects all of the parts in its range to a series of tests and quality controls which are incorporated in its testing programme. Whether in the laboratory or on the road, NTN Europe's kits that include a bearing and a disc hub will prove their performance, their quality and their compliance to the market. As a result, they will comply with the performance level of the original part, qualifying them for approval by an independent body.

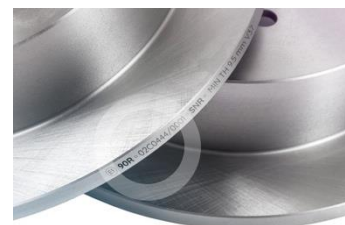


In the context of this certification, an initial battery of tests is conducted on the road using sensors to verify correct operation via various parameters such as brake line pressure and disc temperature. Brakes are then applied at different speeds and with variable weight to confirm that everything functions correctly under various operating conditions as well as during emergency braking and while parking. The subsequent fading test subjects the brakes to extremely high temperature conditions to ensure that they continue to provide optimal performance. A cold performance equivalence test, on the other hand, pushes the vehicle's line

pressure up to wheel lock to verify the performance of the replacement brake lining assemblies. And finally, the speed sensitivity test, which is conducted after the vehicle's line pressure is applied, verifies that braking performance (deceleration) is independent of the speed at which the vehicle is moving.

A second phase of testing takes place in the laboratory and comprises a series of mechanical tests. The adherence to the metal support are verified under extreme conditions to confirm their stability.

At the end of these tests, 100% of the range – in other words, 35 part numbers covering 100% of all vehicles registered in Europe – will be labelled with this safety guarantee.



The ECE R90 approval will appear on the kits themselves. Among other things, this will facilitate the flow of goods through customs in certain countries – but above all it will help fight against counterfeits that impair users' safety over the long term.

"Our customers' safety comes first. It is our duty to provide approved OE quality parts in order to make the best products available to the aftermarket and to fight counterfeiting. As an automotive manufacturer, our goal is to ensure the safety and peace of mind of our customers by guaranteeing the quality of our kits. Thanks to these regulations, it will become more and more difficult to market non-compliant products," explains Carole BERWALD, Product line manager, Wheel Bearings, Automotive Aftermarket NTN Europe.



Brand of NTN corporation

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