

1966: Internally ventilated disc brakes

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Effective cooling of the brakes is important in a high-performance vehicle – only then can they stably and repeatedly brake the car at high speeds. For this reason, Porsche introduced internally ventilated discs to the 911 S as early as 1966. These discs are double-walled so that air can circulate and frictional heat is reduced. Furthermore, the perforations also have the advantage that water spray is conducted away from the discs very quickly. To improve cooling even more, the disc brake systems on later 911 types also have ram air ducts that guide fresh air through channels onto the brake discs from the front – from openings in the spoiler. No other manufacturer invests so much expertise into the brake systems on their series production cars as Porsche. This is because no other manufacturer has as much experience from motor racing as Porsche. The reason being that Porsche has always developed the brake systems for its racing cars itself. The rewards for all this effort are not only brake systems that are extremely stable and therefore play their part in high-precision driving, the Porsche series production vehicles also always boast the shortest braking distances in their class – a significant safety benefit on public roads.