

LEXICON



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Limited Slip Differential

Technical Description

The two drive wheels of a car cover different distances when cornering. The inside wheel covers less distance than the outside wheel. This fundamental difference is compensated by the axle differential gear.

A limited slip differential applies a blocking torque of up to 75% when one of the two drive wheels begins to slip, e.g. because of a slippery surface. When a wheel slip is imminent, the blocking torque transfers the force to the opposite drive wheel.

The limited slip differential is highly valued by drivers who prefer a more sporting driving style. In addition, on roads with average to high coefficient of friction, the limited slip ensures positive driving qualities.

Benefits for the Customer

More agility

-> Optimum thrust, more direct steering, traction benefits on snow, ice and gravel.

More driving pleasure

-> Faster cornering speeds, more direct steering behaviour (front-wheel drive), always perfect traction at both drive wheels.

beyond the standard.