

起动机和发电机

启动-停止高速滑行功能

Starter Motors and Generators

Start-stop coasting



BOSCH

博世 科技成就生活之美



为了进一步降低油耗和二氧化碳排放，博世工程师致力于延长发动机熄火时间：如车辆滑行至停止前发动机熄火，未来将进一步应用于司机松开油门踏板即高速滑行时熄火。即使延长发动机熄火时间，也能保证车辆的安全和舒适性。启动-停止高速滑行功能节省更多的燃油。

In order to reduce fuel consumption and CO₂ emissions even further, Bosch engineers are steadily extending the periods during which the engine is switched off: first while the vehicle coasts to a halt, and in future also when the driver releases the accelerator pedal while driving. All safety and comfort functions are operational even during these longer engine-off phases. The latest version of the start-stop coasting system saves even more fuel.

启动-停止高速滑行功能：典型驾驶情况（自动挡汽车）：

Start-stop coasting – exemplary driving situation (automatic transmission):

在高速公路上，司机发现前方车辆行驶缓慢时松开油门踏板，变速箱自动切换到空档，发动机熄火。车辆在惯性的作用下前行。司机一踩油门，发动机可以迅速重新启动。

Driving on the freeway – the driver sees that traffic is slowing down and releases the accelerator pedal. The gearbox switches to neutral and the engine shuts off. From now on the vehicle is moving forward only by its remaining kinetic energy. The engine restarts as soon as the driver depresses the accelerator pedal.

客户受益

Customer benefits

- ▶ 相比标准版启动-停止系统，油耗和二氧化碳排放可额外降低
 - 7-12% 美国联邦测试循环 (FTP)
 - 5-7% 全球轻型车测试循环 (WLTC)
 - 10-12% 实际路况下
- ▶ 行驶中发动机熄火，零油耗
- ▶ 与车载导航系统结合可进一步降低油耗，如接近限速时发动机自动关闭
- ▶ 由于离合器的辅助启动功能，降低了启动噪音
- ▶ CO₂ savings compared to today's start-stop system:
 - Additional 7-12% in FTP
 - Additional 5-7% in WLTC
 - Additional 10-12% under real-life conditions
- ▶ Zero fuel consumption in engine-off phases while driving
- ▶ Further savings when combined with the navigation system, e.g. through automatic switching off when approaching city limits
- ▶ Improved noise performance when restarting thanks to clutch assisted restart

功能介绍

Functional description

- ▶ 启动-停止高速滑行功能
 - 在驾驶中司机松开油门和刹车踏板：发动机熄火
 - 踩油门：重新启动
- ▶ 即使在高速时，启动-停止功能仍能实现
- ▶ 基于12V电气系统
- ▶ Start-stop coasting
 - Releasing the accelerator and brake pedals while driving: engine switches off
 - Depressing the accelerator pedal: restart
- ▶ Start-stop functionality even at high speeds
- ▶ Based on 12 V vehicle electrical system

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