



IAM Launch
planned for
Q4/2025

Bosch Servotwin Gen3 – latest generation of CV steering systems

More and more heavy commercial vehicles are equipped with the electro-hydraulic Servotwin steering system – it enables automated driving functions

August 2025



Platooning: electrified and connected steering systems allow automated driving

There is a long list of commercial vehicle assistance systems based on the connectivity of steering systems and on-board electronics: These include highway pilots, traffic-jam assistants, blind-spot assistants, automatic emergency braking on vulnerable road users, adaptive cruise control (ACC Stop and Go), lane-departure warning systems, turning assistants, maneuvering distance warning systems and many more. To facilitate such features, an increasing number of commercial vehicles is equipped with Servotwin electrohydraulic steering systems.

Servotwin success – increasing numbers

The commercial-vehicle manufacturers' demand for these steering system is continuously growing. By now, several modern commercial vehicles are already equipped with electrohydraulic steering systems such as Bosch Servotwin. This number is expected to continue growing in future. For commercial-vehicle workshops, this means: Servotwin will be on the service schedules even more often in future.

Based on classic hydraulic steering systems

The electro-hydraulic Bosch Servotwin steering system basically consists of the RB-Servocom hydraulic ball-and-nut power steering system and a platform-based combination of an electric motor with control unit and a worm-gear transmission. The ball-and-nut power steering system – based on the principle employed in a

classic hydraulic power steering system – provides most of the steering assistance. An oil circuit and a power cylinder provide the hydraulic steering assistance. By the connection of the steering system to the onboard electronics, Servotwin is not only suitable for its integration into comfort and driver-assistance features, but also into automatic driving functions.

Planned applications for product launch

Vehicle	Model year
Mercedes-Benz Actros	2019 onwards
Mercedes-Benz eActros 300	2022 onwards
MAN TGX	2019 onwards
SCANIA R500	2020 onwards
Hyundai Xcient CZ	2021 onwards
Ford Otosan H476 Cargo (18-40t)	2023 onwards
Ford Otosan H566 and H625	2023 onwards



Bosch Servotwin on a commercial vehicle



Bosch Servotwin commercial-vehicle steering system

