Flexible functions for autonomous driving: Brose to present multifunctional interior of the future

Brose shows at the IAA how the complete interior can adapt to changing driving situations. New kinematics and additional adjustments provide highest flexibility possible.

Frankfurt am Main (13. September 2017) Autonomous driving is changing car users' demands on vehicle interiors. At the International Motor Show Brose will show how the complete interior can be individually adapted to changing driving situations to enable drivers and passengers to work or relax for example. For the first time, the company will also showcase adjustment technology that goes above and beyond the seat. It draws on the mechatronics specialist's decades of experience and expertise in front and rear seats.

Autopilot takes control, the steering wheel disappears into the instrument panel. The pedals are raised to serve as footrests. A table folds out from the center console, the screen on the dashboard moves directly in front of the driver: working mode is one of several configuration options in Brose's new interior concept. Various modes for entering and exiting the vehicle, driving, relaxing or meetings offer maximum comfort and flexibility.

To create the interior of the future, Brose expanded its expertise in seat systems to the entire vehicle interior, with adjusters for the steering wheel, display and footrests as well as multifunctional consoles that adapt to different seating positions. Passengers can switch between different interior configurations as they like while on the road. The system is easy to operate, for example using an app. Connecting and coordinating all of the functions demonstrates the supplier's electronics expertise, making it the ideal development partner for all adjustment systems in the interior.

This high interior flexibility is made possible by power seat structures with new kinematics and additional functional adjustment technology: the front seats automatically move toward the door for comfortable vehicle access. They can be rotated 180 degrees, enabling four people to talk face-to-face during meetings. The reclined position with leg and armrests provides a new level of comfort and previously unheard-of legroom of up to one meter. To create this space in the vehicle interior, Brose uses a continuous rail system for the front and rear seats, which is hidden in the floor. The contourable rear seats can be folded extremely flat and lowered completely.

The Brose interior concept enables new scenarios for working and relaxing, for example meetings with up to four participants.