

VOLKSWAGEN Arteon R-Line

Space Drive steer-by-wire technology carrier



The VOLKSWAGEN Arteon R-Line

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In this test vehicle, the steering column has been removed entirely. The actuator is located on the steering gear. The vehicle was designed for the future pre-series further development and industrialization of the Space Drive system, is equipped with the latest Space Drive II steer-by-wire technology, and can also be steered using a four-way joystick located in the center console at the touch of a button. The steer-by-wire system has no steering column switch – these functions have been taken over by PARAVAN Touch. The corresponding secondary functions such as indicators and windscreen wipers are controlled using PARAVAN Touch. Via a CAN interface, the vehicle can also receive signals via a PC – option for connecting

an ADAS system in combination with the retrofitting of sensor technology. The vehicle also serves as a reference vehicle for further developments of the R8 LMS GT3 steer-by-wire prototype. The conventional mechanical steering linkage has also been removed here and replaced by the redundant Space Drive steering system. The input signals are only transmitted to the Space Drive main module via a force-feedback steering unit by-wire. This vehicle is an innovation and a prototype.

The VW ARTEON was in use as a safety car at the Motorsport Total Weekend at the DMV GTC series at Nürburgring on June 14 and 15.



Vehicle information:

- Year of construction 2018
- Arteon R-Line 2.0 TSI OPF 140 kW (190 hp)
- Seven-speed dual-clutch transmission (DCT)
- 0 - 100 km/h in 7.7 sec
- Space Drive steer-by-wire system
- system with no steering column at all – no mechanical linkage
- Force-feedback steering unit (on the driver's side)
- Space Drive four-way joystick (in the center console)



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