

Electrically Powered Steering (EPS)

Benefits

- Lower fuel consumption / CO₂ emission reduction
- Tunable steering assistance characteristics
- 'End of Line' calibration and built-in diagnostics



Features

- 40-100 Nm maximum torque output
- Developed in accordance with ISO 26262 functional safety standard. The powerful and flexible ECU incorporates advanced steering functions, including inputs for supporting Driver Assist Functions
- Non-contacting driver torque sensor with optional steering angle measurement
- Low-noise worm gear

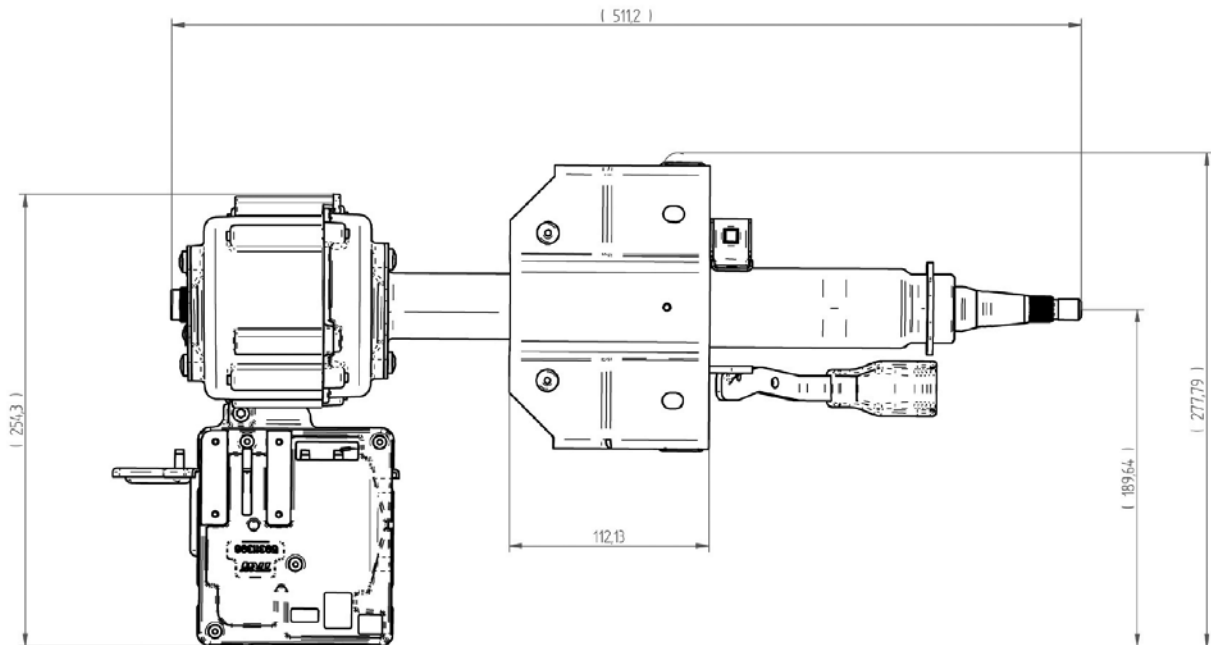
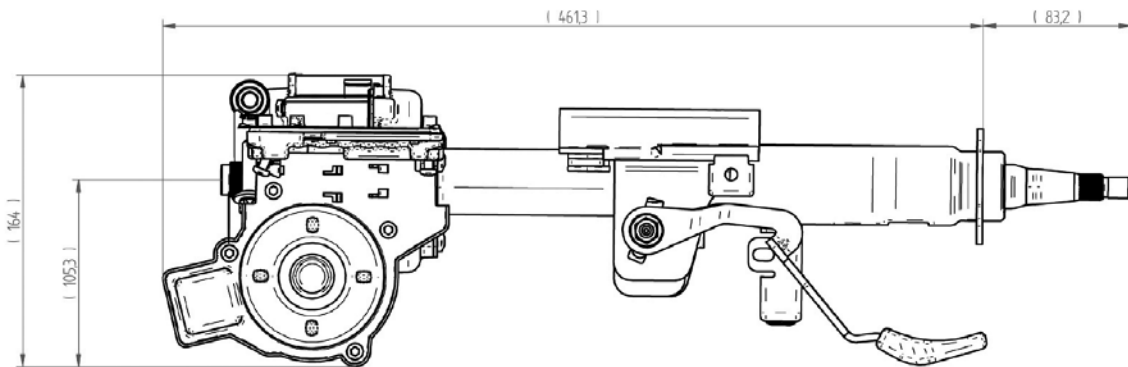
EPS is an innovative steering technology that removes the need for any connection between the steering system and an internal combustion engine. This can be used on conventional petrol and diesel vehicles, as well as hybrid and electric vehicles.

The level of assistance provided by the EPS unit can be varied depending on vehicle speed and steering rate, allowing for a tailored steering feel for all driving situations and the possibility of substantial fuel and CO₂ savings over conventional power steering systems.

EPS can also be integrated with other vehicle systems, such as Lane Departure Warning, to offer new functionality.

Technical Specification Outline

- Max Torque Rating 38 Nm @ 25°C and 12 V DC
- Torque Delivery 38 Nm @ 300°/s
20 Nm @ 600°/s
- Travel Range $\pm 1600^\circ$
- Closed Loop Bandwidth 20 Hz
- Signal Interface CAN (500 kBit/s)
- Sensor Data Available on CAN Column torque, position and velocity
- Power Supply 115 to 240 V AC
- Dimensions Approximately 241 x 225 x 436 mm
- Weight Approximately 9 kg



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