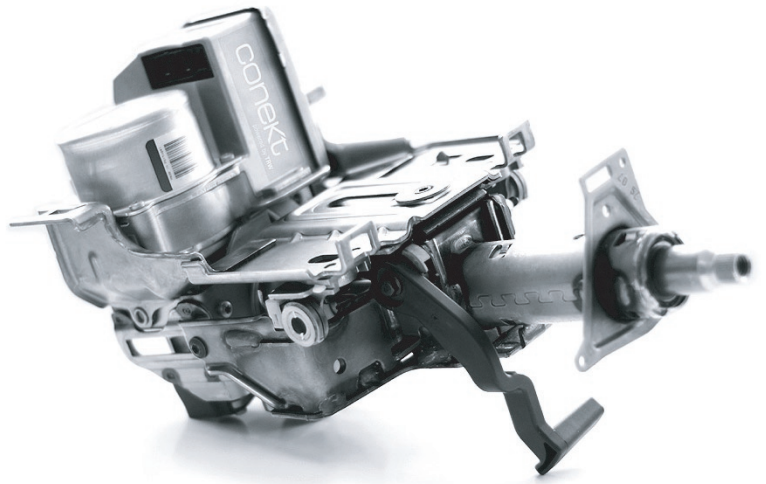




Active Steering Wheel System 2

Advantages

- Base technology proven in mass produced automotive steering systems
- High torque capability of up to 38 Nm (28 ft-lbs), capable of providing realistic end-stops
- Fully integrated sensor / actuator package
- High resolution torque and angle sensing
- CAN interface to simulator
- Automatic shutdown in the event of a fault



New features for the ASWS2

- Increased closed loop bandwidth giving tighter control
- Improved start-up procedure that can save time when you power up the system
- The option to run the ASWS2 with open loop control only

New power supply option

- To ease ASWS2 installation a low cost and compact power supply is now available from Conekt. This PSU has been designed to safely dissipate the reverse currents generated by the ASWS2 and removes the need for cumbersome batteries.

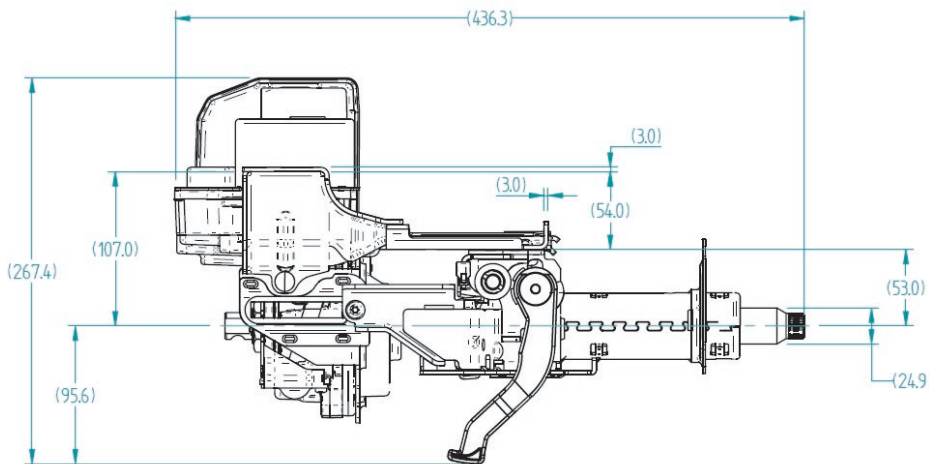
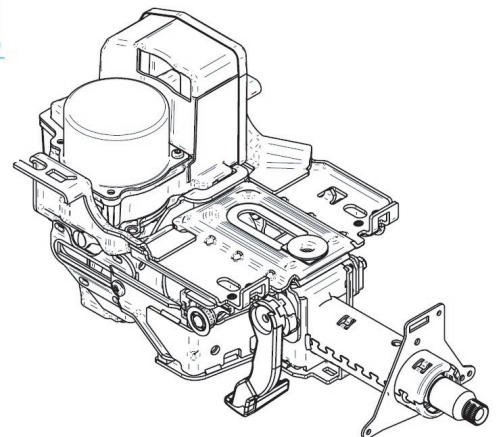
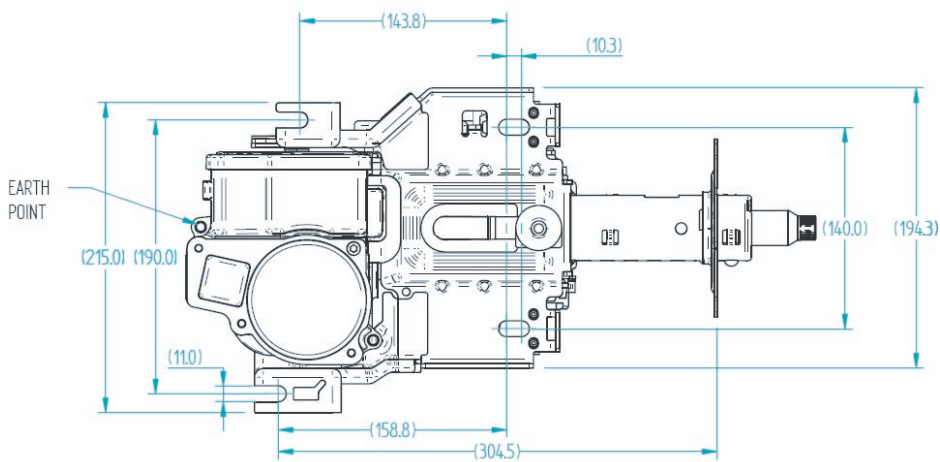
The new Active Steering Wheel System 2 from TRW Conekt enables a driver to experience all of the steering feel of a real vehicle in an artificial, simulated environment. Based on widely used and well-proven TRW Electric Power Steering technology, the system is comprised of a fully integrated unit containing a brushless AC electric motor, ECU, gearbox and a sensor to measure driver torque, hand wheel angle and velocity.

A simple CAN based command and communications interface allows dynamic changes of torque to be transferred from the host system. The system can be used to simulate a wide variety of different vehicles from sports cars to commercial vehicles.

Applications for the Active Steering Wheel System 2 include military and civilian training simulators as well as steering development programmes and driver behaviour research.

Technical Specification

- Max Torque Rating 38 Nm (28 ft-lbs) @ 25°C and 12 V DC
- Torque Delivery 38 Nm (28 ft-lbs) @ 300°/s
20 Nm (14.7 ft-lbs) @ 600°/s
- Travel Range ± 1600°
- 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 (9.5 x 8.9 x 17.2 inches)
- Weight Approximately 9 kg (19.8 lbs)



For more information on the Active Steering Wheel System 2, contact:
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