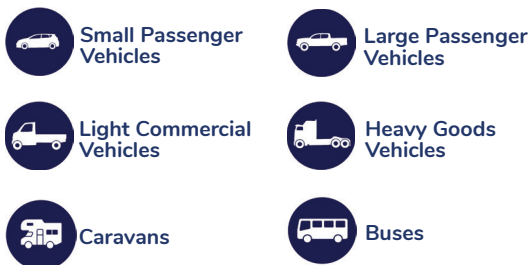


# DRIVINGROBOT MODULAR (DRm)

Advanced Driver-Assistance Systems (ADAS) in trucks are increasingly crucial as the industry responds to data-driven safety initiatives and stringent regulations. New regulations aim to significantly reduce road casualties, with heavy vehicles being especially targeted due to their over-representation in fatal collisions.

As such, testing for ADAS compliance is not just a regulatory formality but a vital step in enhancing road safety and moving towards the Vision Zero goal.

While the DrivingRobot Compact (DRc™) has been designed specifically for ADAS and AV testing of passenger vehicles, the DrivingRobot modular (DRm) is completing our portfolio with the option to operate in a great variety of vehicles. The range includes:



The DRm contains the SteeringRobot modular (SRm), the Steering Wheel Adapter and the PedalRobot modular (PRm™). All components are available in individual packages as well as complete DRm60™ or DRm150™ packages. Additionally, the DRm offers both pedal-only and steering-only modes for enhanced flexibility and control.

The DRm provides a solution with its versatile design, allowing for quick preparation of multiple VUTs, flexible steering wheel accommodation, and silent operation. This leads to cost savings, enhanced testing efficiency.

The DRm box and accompanying battery are securely attached with a seatbelt mount or with ISOFIX mount, ensuring a rapid and secure setup for testing.

The SRm will be available as a SRm60™ version for passenger vehicles and is available as a SRm150™ version for heavy goods vehicles with an increased torque.



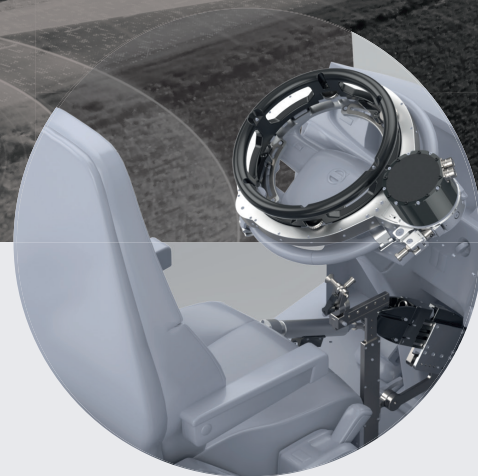
The Steering Wheel Adapter supports steering wheels of 330mm to 550mm in diameter and allows for quick placement. The split of adapter and motor enables the preparation of multiple VUTs.



The PRm™ can be efficiently mounted on the seat rail, optimizing foot space.



# DRIVINGROBOT MODULAR (DR<sub>m</sub>)



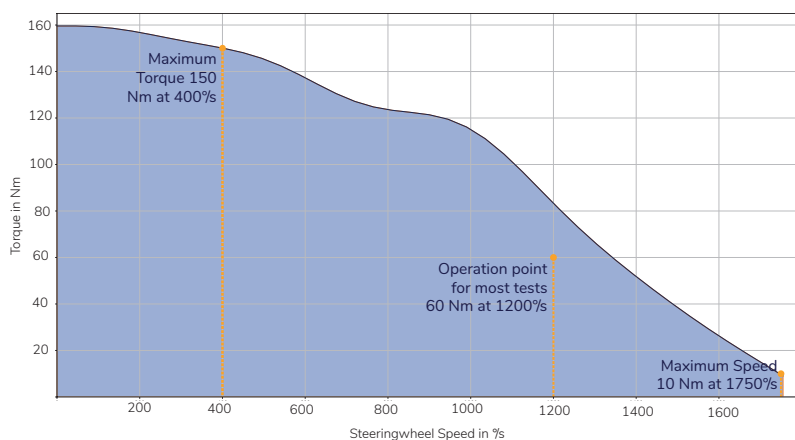
## STEERINGROBOT MODULAR (SR<sub>m</sub>)

	SR <sub>m</sub> 60™	SR <sub>m</sub> 150™
Motor	Brushless	Brushless
Max Torque	60 Nm at 1500%/s	150 Nm at 400%/s
Rated Torque	10 Nm at 2500%/s	60 Nm at 1300%/s
Steering Wheel Diameter	330-550 mm	
System Angle Control Accuracy	+/- 0.5°	
Space in front of Steering Wheel	60 mm required	
Control Mode	Path following, wheel angle control, steering wheel angle control, friction compensation	

## PEDALROBOT MODULAR (PR<sub>m</sub>™)

Max Continuous Pedal Force	56 N
Max Accelerator Pedal Force	156 N
Max Accelerator Pedal Speed	1 m/s
Max Stroke	104 mm
Control Mode	Speed Control, Position Control, Force Control
Security	Safe Design – driver can overrule the brake and take over control at any time
Drive Mode	Brushless electric motor
Max Braking Force	1000 N (depending on mounting angle)
Max Velocity	1 m/s
Max Stroke	140 mm (depending on mounting angle)
Control Mode	Speed Control, Position Control, Force Control

## TORQUE - SPEED DIAGRAM DR<sub>m</sub>150™



## KEY FEATURES

- › Designed for Passenger and Commercial Vehicles: Optimized for a wide range of vehicle types to maximize versatility
- › Split Design Mounting: Facilitates fast switching of Vehicle Under Tests (VUTs), enhancing testing efficiency
- › Simplified installation process with minimal tool use, streamlining the setup process
- › No Dismounting of Airbag or Steering Wheel Needed: Maintains all vehicle safety features intact; no specialized training needed for installation
- › Comfortable Seating Position for the Driver: Ensures a clear view of the proving ground, enhancing driver comfort and safety during tests