



I N P H Y S I C S W E T R U S T

4activeDR-Driving Robot



Highly advanced system for computer controlled driving of cars & trucks

- ✓ drives the vehicle by operating the steering wheel, accelerator and brake pedal
- ✓ providing lateral and/or longitudinal closed-loop or open-loop operation modes
- ✓ to perform standard and customized test procedures with robotic precision

Providing the highest level of user friendliness

- ✓ highly flexible and user-friendly interface
- ✓ full integration in the 4a driving robot control center
- ✓ modular actuator design and flexible application software

Precise - Reliable - Efficient

- ✓ designed for a fast installation into vehicles without changes to the car
- ✓ compact, lightweight, fast installation and rugged components
- ✓ truck kit option available



4activeDR-Driving Robot

Steering actuator

	ADAS/ NCAP config.	High Dynamic config.
nominal load point	10 Nm @ 720 %/sec	60 Nm @ 1280 %/sec
max. speed	750 %/sec	1700 %/sec
max. torque	30 Nm	75 Nm

- ✓ steering wheel diameter range - app. 377 – 405 mm
- ✓ torque support on driver's side
- ✓ uncovered airbag area
- ✓ handle bars for the driver

Throttle actuator

angle	90°max.
torque	15 Nm (nom), 30 Nm (max)
velocity	330 %/s max.

- ✓ lays on pedal (free access to human foot)
- ✓ adjustable position

Brake actuator

	ADAS/NCAP config.	High Dynamic config.
stroke	150 mm max.	150 mm max.
force	350 N max.	1.800 N max.
velocity	0.4 m/s max.	2.1 m/s max.

- ✓ pneumatical brake redundancy upon request
- ✓ clamping attachment, no drills

Key extensions

- ✓ clutch + shift robot for manual transmission
- ✓ truck adapter set
- ✓ driverless add-ons with brake redundancy
- ✓ keyboys for starting / stopping engine

