4active**DR**-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

☑ very flexible and comfortable user interface
☑ highly performant robot control software
☑ modular actuator design and flexible application software

precise - reliable - efficient

☑ designed for a fast installation into vehicles without changes to the car
☑ compact, lightweighted and ruggedized components - each component < 10 kg
☑ only quick teach-in set-up - no calibration required

4active**DR**-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   ☑ uncovered airbag area
☑ torque support on driver'side   ☑ 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

STÄHLE
ROBOT SYSTEMS

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