



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

- ✓ 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

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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'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

