

Pedal Robots

Types CG300, CC800, CP800, CB2100

Pedal robots from VEHICO are standing for highest precision and reproducibility on the test track – worldwide!



Key features of all VEHICO Pedal Robots

- Quick and easy installation
- Intuitive scripting language
- Synchronized operation with all VEHICO robots possible
- Trigger signals can be processed at any time during a test run
- Multiple control modes
- Switching between control modes possible within a test run
- Driver can always override pedal



Typical applications

- EuroNCAP AEB (Automated Emergency Braking) testing
- HBA tests with high pressure gradients
- Automated braking manoeuvres
- ADAS testing and development
- Autonomous driving projects
- Tire testing



Description

Technical data				
	Accelerator Robot CG300	Combined Pedal Robot CC800	Multipurpose Pedal Robot CP800	Brake Robot CB2100
Max. force	300 N	800/200 N	800 N	2 000 N
Max. speed	110 cm/sec	100/50 cm/sec	100 cm/sec	120 cm/sec
Power supply voltage	12 VDC	12 VDC	12 VDC	12 VDC
Suitable for	Accelerator	Accelerator and Brake	Brake or Clutch	Brake
Control modes				
Pedal position	•	•	•	•
Brake force		•	•	•
Brake pressure		•	•	•
Vehicle velocity	•	•		
Vehicle distance	•	•		
Vehicle deceleration		•	•	•

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All VEHICO driving robots can be operated standalone or in combination. Each robot offers multiple control modes, which can be used right away without complicated parameterizing. You can switch between the control modes within a test run to cover most comfortably your individual test requirements. Thanks to an intuitive scripting language all driving robots offer extremely high flexibility to program desired manoeuvres. Standardized tests are available as templates. An online input of the desired values is possible for all driving robots as well.

Application

According to our philosophy all robots can be mounted in diverse cars in a very short time. A driver can still freely sit in the vehicle and operate it in the usual way.

Special feature of combined Pedal Robot CC800

The CC800 is a combined robot for operating brake and accelerator pedal. It is especially designed for quick and easy use in ADAS testing.

More features of all VEHICO Pedal Robots

- Connect any sensors on freely configurable CAN interface with dbc file import
- Different CAN signals may be computed with each other, e.g. to calculate a TTC (time to collision) value out of distance and speed
- No software installation required
- Power from the vehicle power supply, no extra battery packs needed
- Power decoupling from vehicle possible
- Own UPS for computer technology