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Robot System R-ABC

for Accelerator, Brake and Clutch pedal

Fig.: Example picture of Robot

Application

- Driving of vehicles on chassis dynamometers for EMC tests
- Actuation of pedal positions to external, analogue set-points

Specifications

- Due to pneumatically operation no EMC emission
- Emergency-Off safety principle
- Safe non-energized basic positions. The accelerator, brake and clutch pedals are released
- Quick snap-in mechanism of pedal actuator for individual settings
- Easy mounting in the vehicle
- Automatic control by a digital control system (PC compatible software is included)

Technical Data

Stroke distance accelerator adjustable	0 to 100 mm
Strength	200 N
Stroke distance brake adjustable	0 to 125 mm
Strength	350 N
Stroke distance clutch adjustable	0 to 150 mm
Strength	350 N

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Power consumption	208-230 VAC, 50/60 Hz, single-phase
Current	approx. 0.5A
Fuse	T 2A, 250V
Compressed Air Supply	via pressure regulator and ½ inch quick connector
Signal Pressure	0.2 – 1.0 bar
Nominal Pressure	5 bar
Lengths of lines	Air tube 5 m from Dynamometer to Robot
Operating Temperature	5°C to 40°C
Total weight of actuator	approx. 25 kg

Brief description

The Robot R-ABC allows the stepless adjustment of the accelerator and brake pedal inside EMC Chambers preferably in combination with chassis dynamometers.

The R-ABC can be controlled directly from NCD controller with the software included.

The control allows the adjustment and storage of different test cycles and applications.

The NCD and drive unit are located outside the chamber and is only connected to the actuator with two compressed air tubes in order to avoid any EMC emissions.