

# Robot Driver

for automated vehicle testing



- Rapid installation and auto learn
- Accurate and repeatable control of the drive cycle
- Climatic (-40°C /+50°C) as standard
- Comprehensive schedule creation software for easy creation of drive-cycles
- Operates under vDriver™ control, providing “Real World” driving situations and operation
- Robot control system can also control a full chassis dynamometer providing cost effective upgrade solutions

fact sheet:

# Robot Driver

## for automated vehicle testing

Hofmann TeSys Automatic Robot Driver system utilises advanced technology and design techniques to meet the high demand of endurance testing with the precision of control for exhaust emission and performance testing. With an automated learn routine all the vehicle's driving controls are learnt quickly and effectively. The sophisticated automation system can be fully integrated with our chassis dynamometer control system or as a "Stand Alone" unit providing the user with many benefits.

### Applications

- ✓ Customer specific and regulatory vehicle testing
- ✓ Vehicle exhaust emission testing
- ✓ Vehicle mileage accumulation testing
- ✓ Climatic / Environmental vehicle testing
- ✓ NVH testing
- ✓ Powertrain testing

### Features

- ✓ Measurement and control of individual gear engagement force
- ✓ Gear change speed control
- ✓ Auto-learn gear positions
- ✓ Multiple gear configuration for left and right-hand drive vehicles
- ✓ Accommodates automatic, sequential and electronic clutchless systems
- ✓ Synchro protection logic
- ✓ No load on shift mechanism once gear is selected
- ✓ Seamless integration with chassis dynamometer system

### Services

- ✓ Facilities planning and installation services
- ✓ Comprehensive in-house and/or on-site training for customer engineering, operator and maintenance personnel
- ✓ Tailored preventative maintenance contract
- ✓ On-line diagnostics and support
- ✓ Technical helpline support

### Options

- Throttle actuator or full Robot Driver
- Real time and historical data plotting package
- Drivers aid option allows either robot or human drive cycles from the same schedule
- Integrated or stand alone control system
- Integrated column shift gearbox actuator

### Specification

Control may be 'stand-alone' or fully integrated with a chassis dynamometer system providing flexible solutions for various test situations. Pedal actuators are available for throttle, clutch and brake. Gearshift actuator suitable for manual, automatic or semi-automatic gearboxes and an ignition key actuator with optional Pushbutton start system. The sophisticated control algorithms ensure accurate control of gear engagement combined with sensitive clutch and throttle balance for optimum driving performance. Fully automatic set-up capability provides auto-gear position, keyswitch learn, as well as pedal positions and clutch bite point learn. The system has in-built safety protection and automatic emergency shut down in event of vehicle or system fault.

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