



CUSTOM 2.0

Design solution, enjoy success



Automatic Driving System | TAZIO

ENGINEERING SOLUTIONS AND SERVICES SINCE 1988



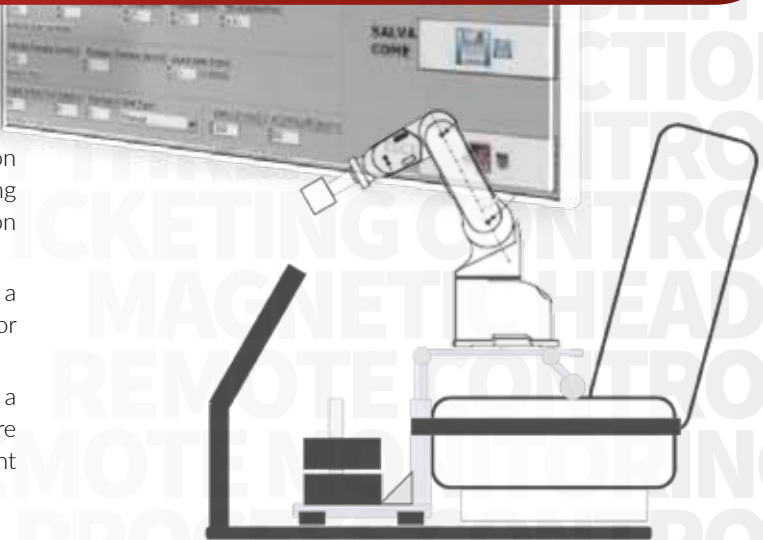
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Tazio - software

TAZIO Supervisor. For fixed installations, is provided a supervision software, installed on a PC, for the test management from the testing room (tracking of states and alarms, logging measurements, suspension test, return parameters).

TAZIO Profile Editor. This editor allows advanced user to define a spreadsheet of test cycles and sub-cycles, warmup, recovery gear for endurance and emissions testing.

TAZIO Regulator Editor. This editor allows the expert user to fill out a specific parameter file of the vehicle model. The control parameters are the PID coefficients of the speed and timing regulator and adjustment of braking and declutching.



Tazio - hardware

GEAR MANIPULATOR

The gear manipulator is developed using an anthropomorphic robot equipped with gear shift grip tool. The robot is insertable on an adjustable support in x, y, z axes, integrated with the seat through knob latches and having the following characteristics:

- 3+2 axes (3 of the arm + 2 of wrist)
- Max range of action 410 mm
- Max speed 2.1 m/s
- Positioning repeatability 0.02 mm
- Max charge on wrist 2.16 Nm

PEDAL ACTUATORS

The pedal actuator is composed by an articulated pusher driven electrically and a centering clamp of pedal gripping. Every single actuator has the following characteristics:

- Max stroke 200 mm
- Resolution 0.05 mm
- Max speed 400 mm/s
- Max pushing force 450 N
- Max clamp opening 65 mm

CONTROL BOX

La Control Box is able to:

- Communicate via CAM with NCM, NBC, NFL, MTA, DCTM control units
- Load and run a complete simulation of road mission
- Pilot the manipulator robot manual or selespeed and brake / clutch / throttle actuators
- Manage the electronic throttle
- Directly control the torque / revolutions setpoint on the actuation of drive rollers
- Perform automatic refueling
- Start the engine synchronization with the AID driver
- Manage the internal alarms of water temperature, oil pressure, faults engine control unit and external alarms.



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