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# DUAL CLUTCH MECHATRONICS TEST BENCH



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## TRANSMISSION MODULES

In a modern, quality oriented market, it is necessary for the automotive component manufacturer to test the reliability and the performance of their products. In particular the Loccioni Mobility has designed and developed a test system for the Dual Clutch system production lines.

## DUAL CLUTCH MECHATRONICS TEST BENCH

The bench is composed of a single station to carry out the following operations:

- > Correct Gear coupling testing
- > Coupling and selection power testing
- > System valves functionality testing
- > Hydraulic tooling functionality testing
- > Clutches actuators characterization

The Software for the management of the system is completely developed by the Loccioni Group and allows high flexibility for testing performance and on reliability tests.

### TECHNICAL FEATURES

- > Vacuum realization up to 5 mBar\_abs
- > Vacuum leak test by means of pressure transducer 0-2500 mBar\_abs (Accuracy +/- 0,2% FS)
- > CSC position accuracy test by means of stroke transducer 0-50 mm (Accuracy +/- 0,1% FS)
- > Contrast force measurement by means of load cell 0-5000 N (accuracy +/- 0,2 FS)
  
- > Software interface possibility through TCU
- > Complete functional testing on Dual Clutch System and sub-components (Actuator Pack and Power Pack)
- > Easy customization for different types of actuators
- > Possibility to use the bench either for production lines or for laboratory purposes

