

Portable Emission Measurement Systems (PEMS) Equipment accuracy Test stand (PET)

- The test bench is operated in the Institute of Internal Combustion Engines and Thermodynamics (IVT).
- It is aimed to move the measuring device such that the real-world condition (real-vehicle acceleration) is simulated.
- Three linear motors (from *Linmot*), which make the appropriate motion of the PEMS box, are permanently actuated synchronous servo motors.
- ACOPOS multi drive system and a PLC (from *B&R*) are applied to position the aforementioned motors in the stroke range.
- The program employed for this project, which controls the drives used in the process with an automatic sequence, has been developed in ANSI C language.

