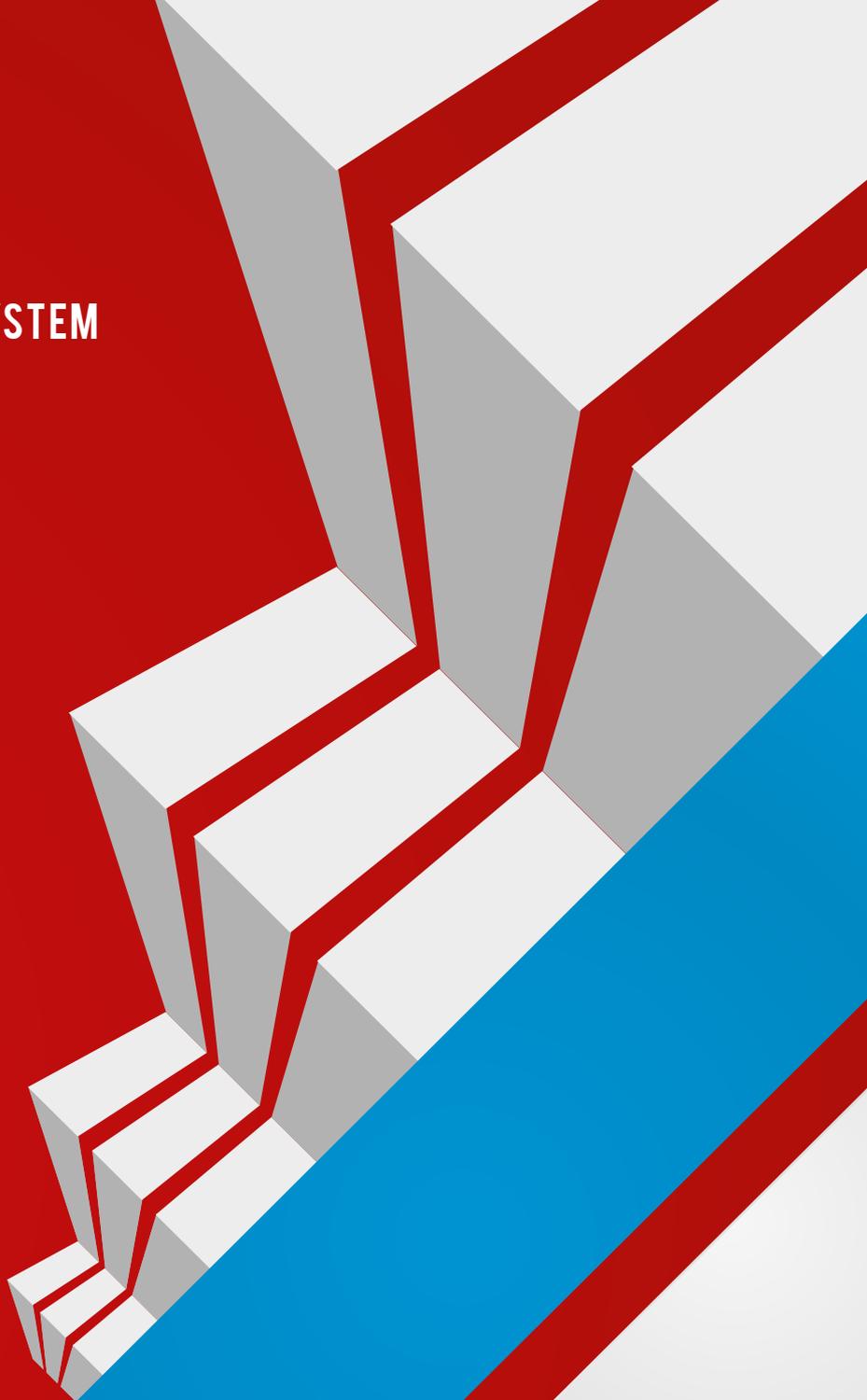


TeCAS

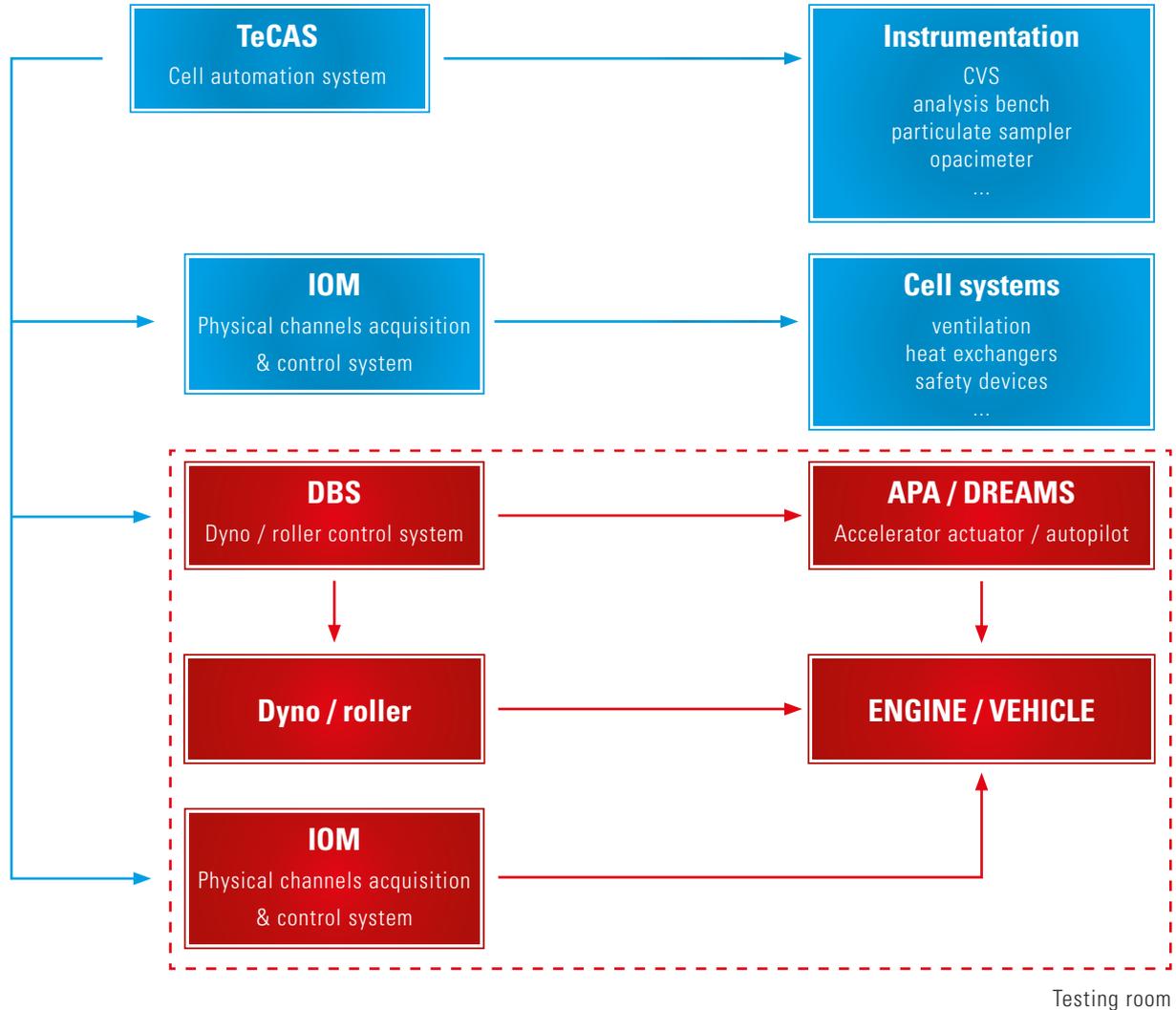
TEST CELL AUTOMATION SYSTEM



AUTOMOTIVE TESTING SOLUTIONS

Test Cell Automation System

AUTOMATION SYSTEM



FEATURES

The engine test cells and the chassis-dynos include several elements and instruments that can work both independently or managed by a central automation system.

Control Sistem offers a full set of hardware and software tools that allow the complete automation of a wide range of testing facilities (emission cycles, characterisation, inspection, mileage tests, life tests...); these tools are able to interface with the peripherals used most widely on the market.

Nowadays the trend that predominates is to entrust the entire management of a testing room to a single intelligent unit that can synchronise most effectively all the instruments and it can collect the results and the measurements into a single database, resulting in the optimal handling of both testing and reporting processes.

It should be noted, however, that many testing rooms do not require such a high level of automation and can be managed effectively by means of manual controls and less sophisticated acquisition software.

The system proposed by Control Sistem uses modular components that, if necessary, can also work independently, or be integrated into pre-existing systems by means of simple and reliable communication interfaces.

In this manner it is possible to meet the widest variety of requirements, whether in very simple testing rooms or in highly complex and fully automated installations.



SOFTWARE

The software of TeCAS is the heart of the automation system considering it allows the operator to fully control the test cell in all its parts and instruments.

Based on INT9000 (a software dedicated to the development of testing applications) TeCAS offers to the user a ready to use application dedicated to engine test cells or chassis-dyno applications.

The basic criteria followed in defining this software were full compatibility with commercial hardware components and a fully open environment, with the possibility to define freely external scripts or drivers for new devices.

DBS - Dynamic Braking System

DBS is an automation unit of compact design.

It can manage: electric motors, eddy current or hydraulic dynos, engine accelerator, wind generator, torque meters, load cell, driving robot, etc..

DBS is designed for maximum integration with the automation systems of a testing room, but at the same time it can be used as a small stand-alone automation unit.



APA - Accelerator Pedal Actuator

APA is a universal actuator, specially designed to engage/release vehicle pedals.

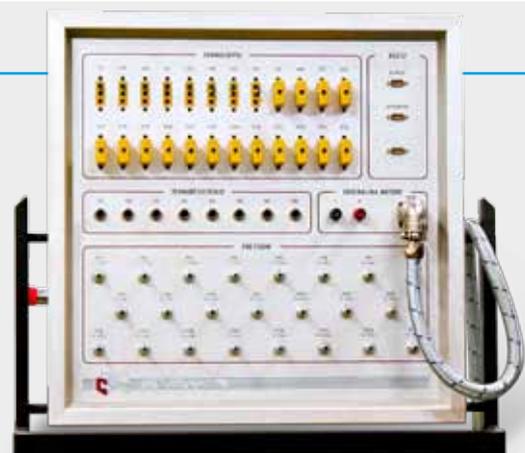
Thanks to its flexibility, APA can also be used in engine test cells (throttle control) and transmission test cells (opening and closing the gearbox clutch), and, in general, wherever there is a mechanical device to be actuated.



IOM - Input Output Module

The expanded acquisition system makes it possible to manage a great number of input and output channels.

It is made of modular units that can be installed in the automation cabinet, in the control room or inside a cabinet located next to the engine (on a moveable support, if desired).



CONTROL SYSTEM

Expert engineering, flexible deployment.

Control System is a leading producer of Testing Facility solutions for the Automotive sector providing all-round service and extensive specialization across the vehicle testing spectrum: Engine Testing Cells, Components Testing Rigs, Powertrain & Gearbox Testing Solutions.

Control System also develops in-house complete dedicated management Software that is a key feature of the entire test process alongside the other elements in the Testing chain.

The high-level technical and entrepreneurial capacity acquired in over 20 years experience in the Automotive sector enables Control System to deliver cutting-edge solutions comprising latest-generation technology as well as sophisticated Hardware and Software systems.

Proven expertise in the sector has enabled the Company to collaborate with top automakers both in Italy and worldwide with consistently excellent results.

Control System's real strength is its highly flexible ability to design and produce solutions tailored to customer specifications or developed in conjunction with customers themselves – a versatility that has become a fundamental market plus in the development of each project.



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