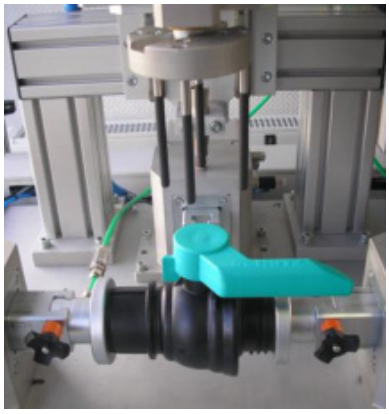
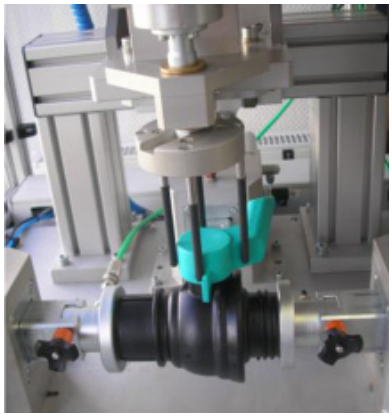
CETA Leak Test System





Application example:
CETA leak test system with fixture for the leak test of ball valves (test of the internal and external tightness in different positions of the ball valve, switching by mechanical actuator, use of the test mode „closed component“ [volume determination and test of gross leaks] and „pressure decay test“ [test of fine leaks])

Short description	The CETA leak detection system is conceived as a semi-automatic test stand. The modular construction and the use of standardised components allow the offer of a price attractive system. The integration of different types of test devices (leak tester, flow tester, mass flow tester) enables a variety of industrial solutions for the most different applications and test parts. The adaption of the test part is specific as well as customer options. During the project planning phase the technical feasibility of the leak test is checked.
Sequence controller	PLC controlled semi-automatic test system Manual placement of the test part into the receptacle Automatic test procedure Evaluation of the measurement result (pass / fail)
Standard components	Optimized concept regarding the pneumatical design and the technical application Mobile Rittal control cabinet (with drawer) including integrated maintenance unit, valve cluster and control components Savety devices 2-hand-start Siemens PLC (basic model) with pass / fail evaluation, malfunction indicator, acknowledge reset, emergency stop switch Use of components from reputed manufacturers for pneumatic and sensor technology, guiding systems and mechanical profiles Prepared for the integration of a CETA test device
Components specific to the customer	Test part specific adaption, number of clamping cylinders Modification of the standard layout and additional functions
Power supply	230 V AC, 5 A (standard configuration)
Compressed air supply	1 bar above test pressure, but at least 5,5 bar (ISO 8573-1)

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Application example:
Mobile CETA 3-channel test system fort he autonomous leak test of pneumatical systems with customer specific adjustments (16 bar test pressure, pneumatical measuring line and hose reel, industrial PC controlled, network compatible, bar-code-scanner, label printing for documentation of the measuring results)

Modifications and options	PLC Siemens S7/226 control system (24 inputs / 16 outputs) Extension of the PLC with additional modules Display for visualization Safety systems Guard door with end position control Light grid Optional extensions (examples) Integration of a PC Signature / marking of test part Signal lamp Double receptacle for test parts with sliding table
Weight	Approximately 200 kg (depending on the customised modifications)
Included in delivery	Transport packing, engineering drawing, list with spare and wear parts, CE identification, conformity declaration, user manual, calibration certificate for test device
Accessories (optional)	Application software CETA Soft, standard leak, master jet, leaktight 3/2-way-valve, CETA accessories catalogue

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