



EUROAMERICA
TEST AND MEASUREMENT SOLUTIONS

ATD-LabTech PDC Test System

The PDC Test System is a series of test benches united in a single, compact system. This offers the opportunity to synchronize the performance of neck pendulum tests, foot impact tests, head drop tests and rib drop tests, along with multiple compression and tension tests in a confined space. The design pays special attention to ergonomic working heights, storage space and simple operation. The central control system with touch panel realizes efficient testing scenarios.

- Neck Pendulum, Foot Pendulum, Head Drop, Rib Drop, Abdomen Compression
- Quick-change adaptations
- Automated drop height positioning system
- Customizable test specifications
- Modular design for future upgrades
- Prepared for in-dummy data acquisition systems
- Compression & Extension module available
 - Up to 25 kN of force and 55 in of stroke
 - Force and moment sensor validation
 - Displacement sensor validation
 - Flex-PLI static validation
- MDT+ upgrade available





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Additional Information

Neck Pendulum



The neck pendulum offers an innovative adaption system to change the head forms quickly and easily. Also available is the neck pendulum electrical acceleration extension which provides accurate drive of the pendulum with a servo drive to reduce the required test bench height.

Foot Impact

Innovative design allows for a simple and easy adjustment of the point of impact during the foot impact test scenarios. By quickly changing the testing pendulum the system can be universally used for furth pendulum impact tests. The system is already able to certify the THOR-50M ATD.





Additional Information

Head Drop



An automated drop-height positioning and quick-lock mechanism for an easy adaption and release of the head offer maximum convenience during the preparation and performance of the test. Through its design concept, the head drop test can be used for a wide range of other applications such as the rib drop test and the calibration of seat belt load cells, displacement sensors, etc.

MDT+

Drop and compression tests are possible on the PDC as well as with the stand-alone solution MD Test System. A variety of additional tests, such as various sensor calibrations and tension/compression tests, are possible through an upgrade. The MDT+, with its horizontally movable table is the core of this upgrade. Together, with the vertical linear drives, a test system is created that has three driven axes (X, Y, Z).

