



EUROAMERICA
TEST AND MEASUREMENT SOLUTIONS

ATD-LabTech Dummy Lab

The Dummy Lab is a combination of three individual test systems: the Impact Test System, PDC Test System, and Flex Test System. Combined, this innovative solution allows for more efficient, repeatable, reproducible, safe, and enjoyable experience for qualifying crash test dummies.

- Impact Test System, PDC Test System, Flex Test System
- Turn-key solution with easy delivery and installation
- Compact and modular design for future upgrades
- High quality suppliers – no one off materials
- Remote support available from anywhere in the world
- 1:1 matching set of equipment in Germany for troubleshooting
- Compatible with DTS, Kistler, Messring, mg-sensor, and National Instruments
- ISO 17025 conforming test reports with flexible design and formatting





EUROAMERICA
TEST AND MEASUREMENT SOLUTIONS

ATD-LabTech Impact Test System

The Impact Test System consists of two components: the linear pendulum, and the automated *Test Bench*. Together, these components allow for repeatable, reproduceable, and efficient certification testing of ATD's and components.

- Impact Velocity: Up to 9 m/s (29.5 fps) with a 14 kg (30.9 lbs.) probe
- 4-axis CNC table for easy ATD positioning
- Laser integrated positioning
- Linear activation of impact probe
- Automatic catching of probe to prevent multiple impacts
- Capable of certifying (appropriate tests) for ALL ATD's and components on the market
- Permanent Velocity Validation – (4) independent sources of speed validation
- Velocity uncertainty < 0.05%
- Dimensions: 17.6 x 3.2 x 11 ft
- Power Supply: 400 V AC, 63A





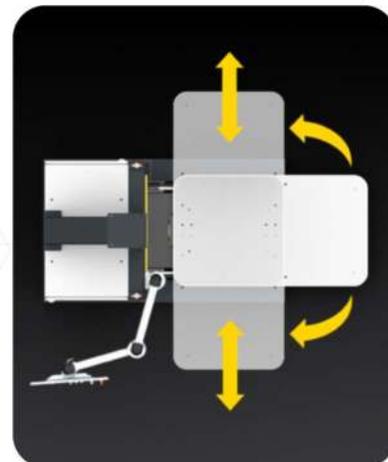
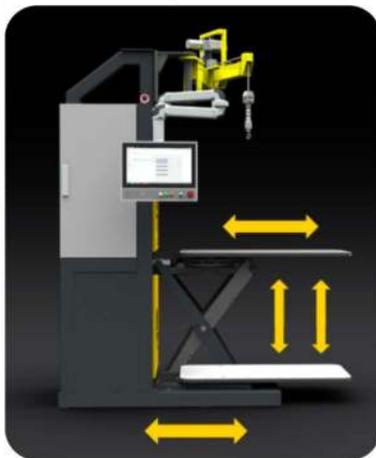
Additional Information

Test Bench



The automated test bench allows for operation and adjustment along four axes, creating high flexibility in relation to the significant number of dummy types and diverse testing scenarios. The easy and precise positioning can be done at the self-explanatory input module of the touch-panel monitor.

This system includes the handling of all coming ATD types and testing scenarios. The functionality of the test bench reveals various scopes of operation beyond the certification of dummies.





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





EUROAMERICA
TEST AND MEASUREMENT SOLUTIONS

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 further impact tests.





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).



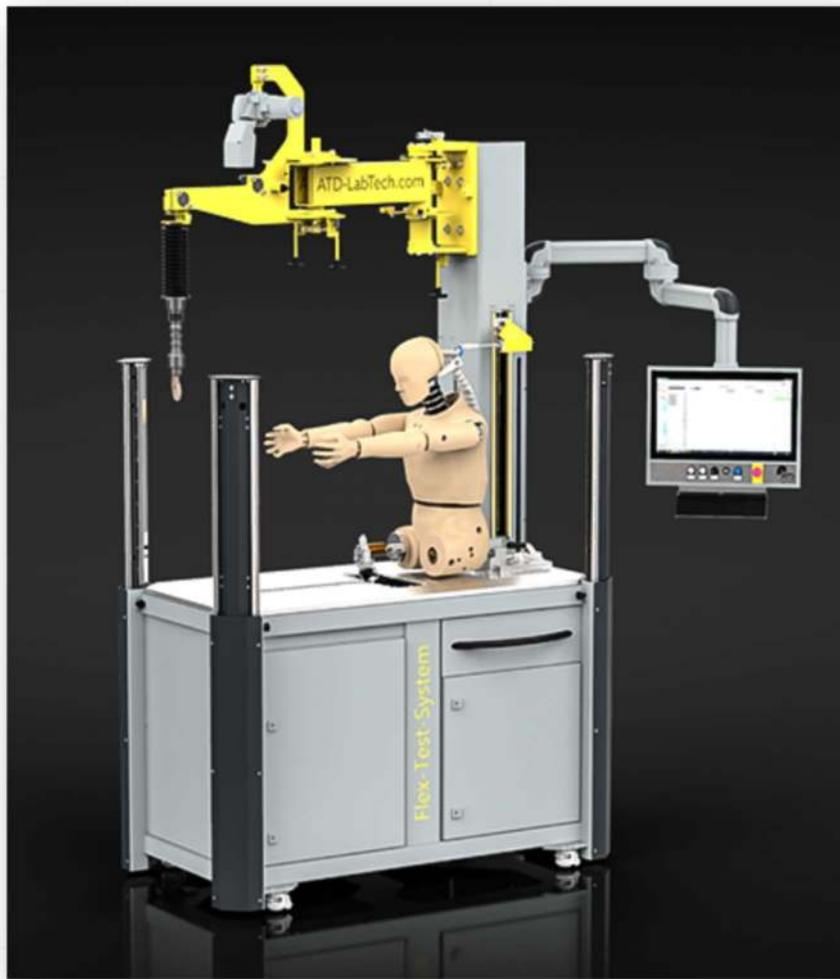


EUROAMERICA
TEST AND MEASUREMENT SOLUTIONS

ATD-LabTech Flex Test System

The Flex Test System combines hip and torso flexion tests in one compact system. Fully automated positioning and performance of tests guarantee a drastic reduction regarding possible errors. Suitable adaptations for all common dummy types complete the system.

- Hip Range-of-Motion & Torso Flexion
- Fully automatic test operation – no input required after hitting 'start'
- Reactive safety light grid
- Dimensions: 6 x 3 x 9.6 ft
- Power Supply: 40 V AC, 16A

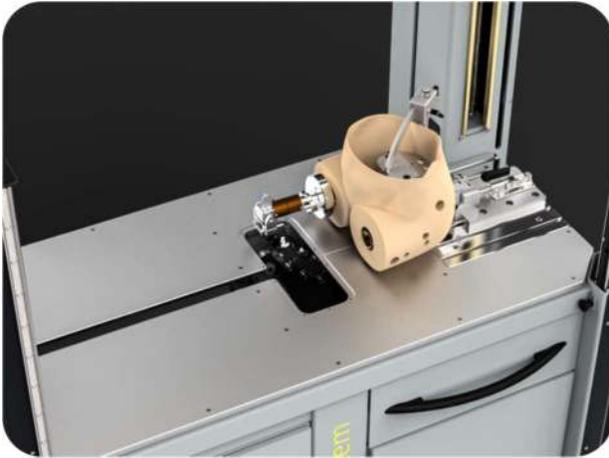




EUROAMERICA
TEST AND MEASUREMENT SOLUTIONS

Additional Information

Flex Test System



The ergonomic height of operation and the additional module of an integrated crane to conveniently move and deploy the dummy offer an efficient and simple testing process.

v

**To schedule a live demonstration of the equipment, please contact Austin Kelly at:
austin.kelly@euroamerica-llc.com or (937) 407-7572**

www.euroamerica-llc.com | (937) 407-7572