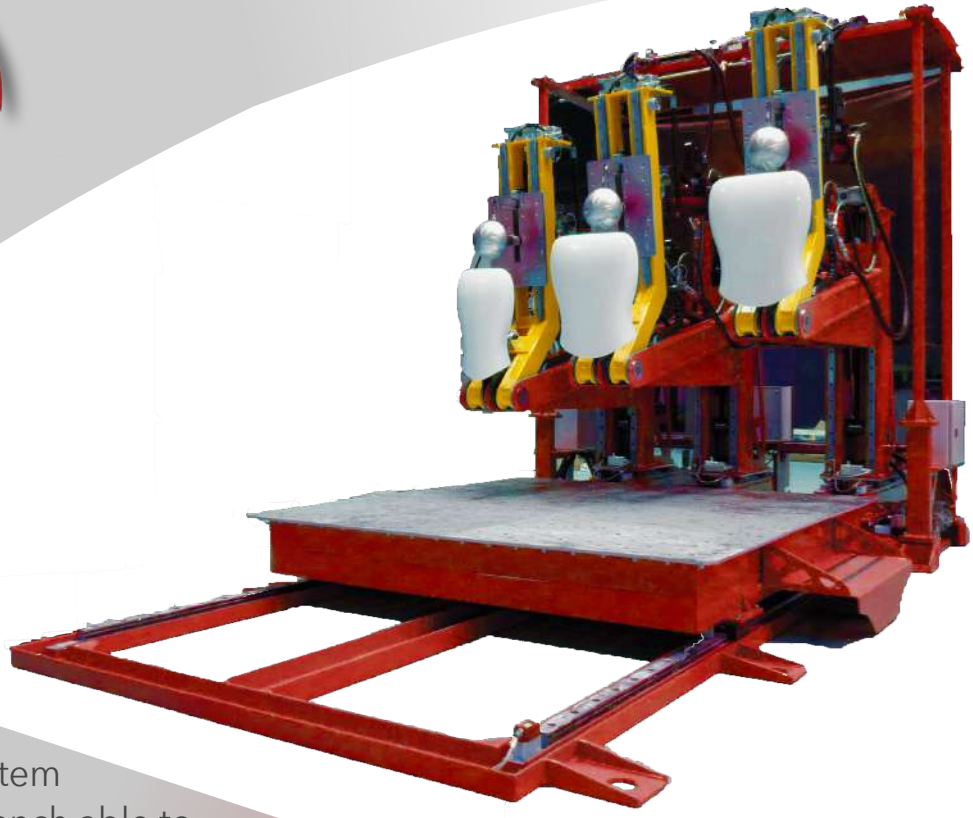

Head Restraint Performance Test System

The Head Restraint Performance Test system is an electrical test bench able to evaluate structural strength and stiffness of seats, their backs, anchorages and headrest.

The heavy-duty system is a cost-efficient solution, capable of testing up to 3 seats simultaneously and independently.

The system has been designed according to the following regulations:

- FMVSS 202A, FMVSS 202
- ECE R17, R25
- GTR 7
- EEC Dir 78/932
- GB 11550 – 1995, GB 15083 – 2006
- IS 15546 – 2005
- AIS 016, AIS 023

- ✓ **Precise programable load rate control with high performances**
- ✓ **Height Retention Test included**
- ✓ **Specimen-holder moving table for easy placement of seats or vehicle section**
- ✓ **Easy-to-use control system with a powerful user-friendly software**
- ✓ **High resolution (16 bit) and high accuracy for all range of loads (torque, force)**
- ✓ **H-point laser alignment tool (Easy configuration of R-H points)**
- ✓ **Low maintenance required**

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Main Loading Specification:

- Back Station Moment: Up to 5.000 Nm
- Back Station actuator Stroke: 600 mm
- Head-form Station Moment: Up to 2.500 Nm
- Head-form actuator Stroke: 700 mm
- Head Retention Test Force: 2.500 N
- Head Retention Stroke: 400 mm
- Minimum lateral separation between two lateral stations: 250 mm

Regulation ranges:

- H-point height regulation: 200mm-900mm
- Head form distance to H-point: 450mm-900 mm
- Y-direction regulation of the 2 Lateral Loading Stations: 500 mm movement
- X-direction regulation of Central Loading Stations: 150 mm movement
- X-direction regulation of Sample Table: 800 mm

Instrumentation:

- Head displacement: 3 x displacement sensors
- Head retention: 3 x displacement sensors
- Head force: 3 x load cells
- Back angle: 3 x inclinometer
- Back force: 3 x load cell

New approach to the automotive safety testing

Additium Technologies is a young company formed by proffesionals with more than 20 years in direct experience on the design, manufacturing, commissioning and support of custom made test systems.

ADDed value Passive Safety Test Systems

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