



**EUROAMERICA**  
TEST AND MEASUREMENT SOLUTIONS

## ADDITIUM

### Quasi-Static Loading Systems

The Seat Belt Anchorages (SBA) Test System includes a real-time controller with specific algorithms and control strategies for ECE R14 and similar type profiles. The Head Restraint Performances (HRP) Test Rig is an electrical test bench able to evaluate structural strength and stiffness of seats, seat backs, anchorages, and head rests. The Roof Crush and Side Intrusion (RCSI) Test System is a combined test bench designed to evaluate the roof and side strength applying a controlled load over them.

#### Seat Belt Anchorages (SBA) Test System

- Clean and silent operation
- Optional bed frame (multiple sizes)
- Enlarged actuators positioning range
- Straight forward and intuitive control
- Optional wireless pad for remote operation



ADDITIUM has introduced the use of **Ultra-Light High Resistance Chains** (Tycon®) that will improve your SBA Test Rig operation and test setup. The chains are made of 100% Dyneema high resistance fiber, providing several advantages over traditional steel chains.

#### SBA Features

- ECE R14, FMVSS 210, GB14167-2013, ISOFIX...
- Up to 9 actuators
- Dynamic force of 30 kN at 300 mm/s
- Stroke: 1000 mm
- Min./Max. vertical separation: 300 mm/2000 mm
- Min./Max. horizontal separation: 330 mm/2000 mm
- Motorized actuators vertical positioning



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## Head Restraint Performances (HRP) Test Rig

- Precise, programmable load rate control
- Height Retention Test included
- Specimen holder moving able for easy placement of seats or vehicle section
- Easy-to-use control system with user-friendly software
- High resolution (16-bit) and high accuracy for all range of loads
- H-point laser alignment tool
- Low maintenance required



### Designed for 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

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