ARIES INGENIERIA Y SISTEMAS, S.A.

TestSystems

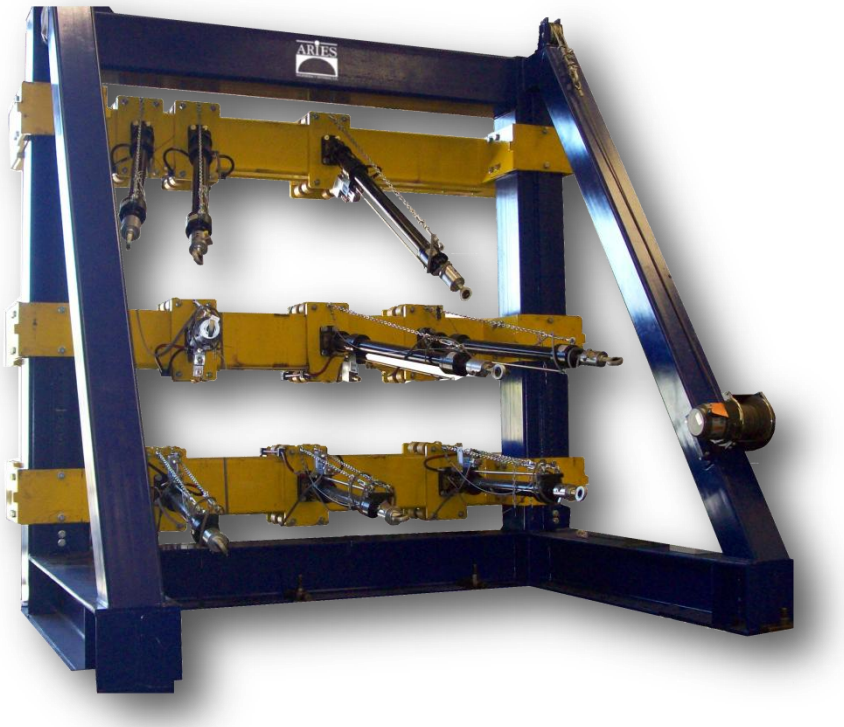
Passive Safety

SEAT BELT ANCHORAGES TEST SYSTEM

Aries Ingeniería y Sistemas offers a fully digital controlled **servo-hydraulic test system** to perform loading profiles over safety belts anchorages according to applicable automotive regulations.

The test bench is an optimum combination of high stiffness frame, a flexible positioning of actuators in height axis (Z) and lateral axis (Y), and a state of the art digital servo-control developed by ARIES to cover many closed loop control applications.

Different number of actuators can be included for different number of simultaneous test positions (1, 2 or 3 seats/places). ARIES' expertise in hydraulic benches will enable the definition and supply of the optimum hydraulic power supply solution, either through a connection to an existing hydraulic distribution line or by actual supply of dedicated HPS.



MAIN FEATURES & BENEFITS

- Testing in accordance with:

  ECE R14 FMVSS-210 FMVSS-207 EEC Dir. 76/115 GB14167-2013 ISOFIX Test Procedures

- Extremely high stiffness solution
- Up to 12 simultaneous actuators
- Fully digital Servo-control with integrated Data Acquisition spare Input Channels
- Optional bed plate to rigidly fix the main frame and test samples
- Loading elements and accessories available including ISOFIX-SFAD

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TECHNICAL SPECIFICATIONS

Hydraulic Actuators (standard performances*)	
Number of units	3, 6, 9 or 12
Static Force (@210 bar supply)	40 kN
Dynamic Force (@ 300 mm/s)	20 kN
Stroke	750 mm
Load Cell 50 kN / 150% overload rated	0.1 % accuracy
Displacement transducer	Built-in
Regulation Range	
Maximum height of upper beam over bed plate	2000 mm
Minimum height of lower beam over bed plate	150 mm
Minimum vertical separation of two actuators	220 mm
Maximum lateral separation of side actuators	2000 mm
Minimum lateral separation of two actuators	280 mm
Lateral and vertical angles	± 4º / ±15º

(*) Different technical specifications under request

Advanced ServoHydro Software Suite with functionalities for definition of all actuator parameters, **PID control** tuning, **limits and alarms** management, **data acquisition** handling and optional report generation tool. Specific templates for test regulations included.