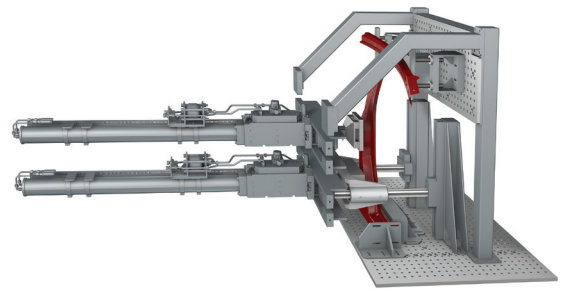


ConAS

Controlled Application for Structure deformation

To enhance the overall performance of structural deformation testing, ConAS can be utilized as an add-on fixture to ASIS to improve the overall test system capabilities. Its robust design is capable of deforming considerably rigid structures such as the B-pillars, under a precisely controlled crash pulse. Therefore, it can be very useful during the early stages of the vehicle structure development.

Similar to ASIS design methodologies, some of the key features include intrusion cylinders with air pressure up to 200 bar, and ram acceleration modulated by hydraulic brakes that are controlled by an ultra-fast valve. Acceleration, speed and stroke can therefore be regulated precisely for each and every cylinder to simulate a complex crash scenario. Altogether, a complex crash pulse can be modulated and thus the structure can be deformed with a real crash pulse as opposed to uncontrolled force behavior.



ADVANTAGES

Controlled deformation stroke

- No influence of component stiffness
- Determine force absorbance by given deformation stroke

Controlled deformation force

Deformation simulate real crash pulse

- Realistic component behavior

Validation of simulation models

- Perfect solution for complex components
- Material behavior of composites
- Behavior of innovative joining technologies

Material testing

Number of cylinders	Up to 4
Standard force/cylinder	120kN- 500kN
Standard stroke (two versions)	400mm- 1000mm
Minimum distance between two intrusion areas	225mm

