

## UNIVERSAL LAUNCHER

### IMPACT TEST SYSTEM



**Aries Universal Launcher** is the perfect solution for pedestrian and interior impact testing.

Our engineering team has developed a modular system to perform pedestrian, interior, and other impact tests. Aries' design allows for the easy interchange of impact modules.

The entire system can be upgraded to fulfill any future regulation changes.

With more than 10 years of pedestrian testing experience, Aries' worldwide references are a proven record of reliability and quality of our system.

### Modular Test System for pedestrian and interior tests

#### Pedestrian Safety:

- ECE R127, GTR No. 9, J-MILT, TRIAS63.
- European Directive 2003/102 EC, 2005/66/EC, 78/2009, 631/2009, EEVC-WG17.
- EuroNCAP, J-NCAP, A-NCAP, U-NCAP, K-NCAP...

#### Interior applicable regulations:

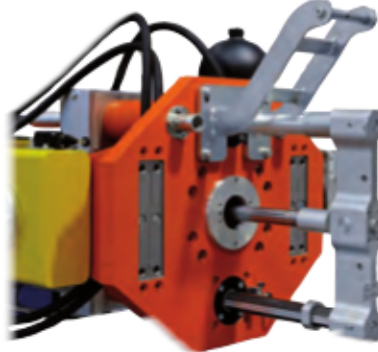
- Guided impactor-Linear impactor up to 50 kg (ECE R12, FMVSS 201, ECE R95).

- Body Block Impact Module (ECE R12 & FMVSS 203).
- Headform Pendulum (ECE R21, 17, 25, 80, GTR 7, FMVSS 201, FMVSS 202A ...).
- Ejection Mitigation (FMVSS 226).
- Knee Impact Module.

#### Free motion headform test:

- FMVSS 201 U.

## PEDESTRIAN AND INTERIOR TESTING



### System benefits:

- Same hydraulic propulsion system for different types of tests allowing for high productivity.
- Real time speed closed control loop.
- Separate guidance and propulsion (avoids impact loads on piston).
- Precise and repeatable impact velocity.
- Free-flight and guided impacts.
- Easy-to-use positioning system by remote control or software.
- User-friendly software for fast and safe operations.
- Customized propulsions systems based on electric or pneumatic technologies can be offered on request.

### FMH (FMVSS 2010)



### System benefits:

- High accuracy and repeatability.
- Compact launcher allowing for positioning inside the vehicle.
- Hydraulic propulsion system with real time speed closed control loop.