

E – PED HEAD LAUNCHER

The E-PED Head Launcher is the newest advanced system supplied for pedestrian headform impact testing. Controlled by high-precision electrical linear motors, it delivers outstanding impact speed accuracy and repeatability. Mounted on a robotic positioning platform, it provides exceptional flexibility for test setups and can be easily combined with the E-FMH Launcher to perform FMVSS201U tests, as well.



Performance Specifications:

- Speed range: 1 – 12 m/s (43 km/h)
- Maximum free flight Mass: 5 kg
- Speed Accuracy: +/- 0.05 km/h
- Impact point accuracy: +/- 3 mm (laser pointer to identify the target point)

System Overview:

- Simple & Cost effective test system for Pedestrian headform tests (adult and child), according to ECE R127, GTR 9, Euro NCAP, CNCAP, GB 24550, JNCAP, ASEAN NCAP
- Wide range of positioning for any type of vehicles (SUV, MPV, A-class, B-class, etc.)
- Linear Motors Technology: clean, safe and sustainable
 - Unbeatable Accuracy and Repeatability: real time close control loop in speed
 - Low Operational and Maintenance cost: easy payback of investment
 - Energy efficiency: embedded booster
- Its innovative architecture integrates linear motors control with a gas-spring-based mechanism for boosting and compensation, ensuring smooth and efficient headform trajectories
- User-friendly control system and software
 - ADDITIUM E-PED Launcher SW suite (Automatic user-driven operation)
 - Ballistic/Vehicle shape correction calculation tool