

The Multi E-Launcher has been designed for pedestrian, misuse and component impact test. The system includes a state of the art E-launcher, controlled by electrical linear motors technology.

There are many advantages to the user:

- Better control and, therefore, much better impact speed accuracy
- Higher repeatability, as system is less influenced by external factors
- Lower acceleration during the propulsion, protecting impact shapes from high force peaks
- Clean and maintenance free
- Silent operation: less acoustic noise
- Compact design: less occupied space
- No need of pre-tests

- ✓ PEDESTRIAN: ECE R127, European Directive 78/2009, 631/2009, EEVC - WG17, GTR N° 9, Euro NCAP, JNCAP, KNCAP, U.S. NCAP, C-NCAP, ANCAP, Japan Article 18 A99, AIS 100, GB 24550
- ✓ GUIDED HEAD: ECE R12, FMVSS 201/203, GB 11557
- ✓ BODY BLOCK: ECE R12, FMVSS 203, GB 11557
- ✓ HEAD FORM PENDULUM: ECE R21, FMVSS 201/202A, ECE R17, ECE R25, ECE R80, TRIAS 20, GB 11552
- ✓ FREE MOTION HEAD FORM (FMH): FMVSS 201U
- ✓ EJECTION MITIGATION: FMVSS 226
- ✓ KNEE IMPACT
- ✓ MISUSE TEST

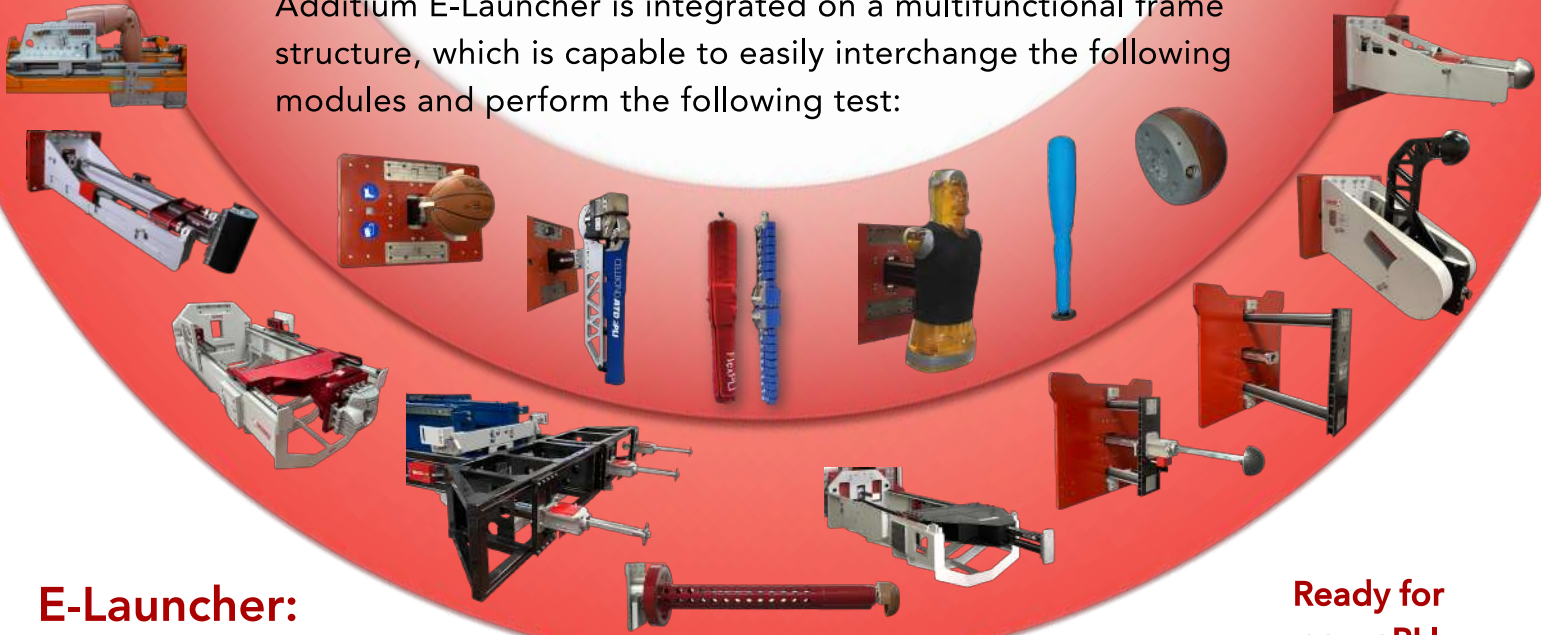
E-Launcher

Controlled by Electrical Linear Motors Technology



Multifunctional System:

Additium E-Launcher is integrated on a multifunctional frame structure, which is capable to easily interchange the following modules and perform the following test:



E-Launcher:

- Compact design
- Controlled by electrical linear motors technology
- Speed accuracy better than $\pm 0,05$ km/h
- Maximum speed: 61 km/h*
- Maximum propelled mass: 50 kg* (free flight), 130 kg* (guided)
- * Others under request

Ready for
new aPLI

Control System:

State of the art modular expandable and robust control hardware architecture, with a fanless embedded PC with real time operative system and a friendly user interface, operated from a movable control stand. Integrated DAS, contact inputs and trigger outputs included.



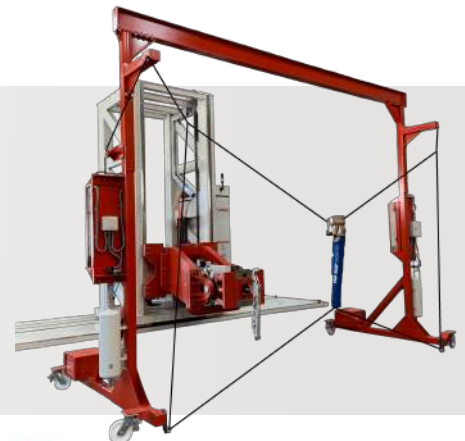
Positioning and Support Frame: (other ranges under request)

- X-axis: from 0 to +2000 mm
- Y-axis: from -1000 to +1000 mm
- Z-axis: from 500 to 3500 mm
- Z Rotation (optional)
- Alpha: from -15° to $+90^\circ$
- X' (Combined movement X&Z)

Automatic Recovering Device:

Cost effective system for catching free flight impactors:

- Pedestrian legforms: aPLI, FlexPLI, TRL
- Pedestrian headforms
- Body block
- Misuse: PDI-2, ...



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