

BE-SLED - Boosted Electric Acceleration Sled

Additium has developed the next generation of Acceleration Sleds, based on linear motors technology, including Pre-Brake capability.



50% Linear Motors

High-frequency dynamic pulse tracking

User-friendly control system
and software

50% Pneumatic Booster

Low-frequency force contribution

● No buckling risk

New Testing Challenge

- AEB before impact creates longer and more complex crash kinematics
- Greater sled travel demand for frontal and rear-impact / whiplash tests
- Higher energy and longer stroke are required to reproduce the target pulse

Performance Specifications:

- Max force: 175 / 250 kN *
- Speed range: 1 – 72 km/h (20 m/s) *
- Payload: 300 / 500 kg *
- Test Stroke: 4100 mm (2.4m pre-brake/Up to 1.7m crash) *
- Max acceleration: Up to 63 g (depends on Payload) *
- Repeatability: +/- 0.1 km/h

*Others under request



Advantages:

- Linear Motors Technology:
 - Unbeatable Accuracy and Repeatability
 - Clean, safe and sustainable
- Longer strokes for AEB test scenarios
- R&D tests: simulation of any kind of crash pulse under the energy limits
- Hybrid force: Energy efficiency thanks to the hydro-pneumatic booster

Dimensions: 12,5 m x 1,75 m (without Power and Control Cabinets) / Room: 15 m x 6 m

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