



E-Liner FMH

Mobile Head Impact Test System for Vehicle Interiors

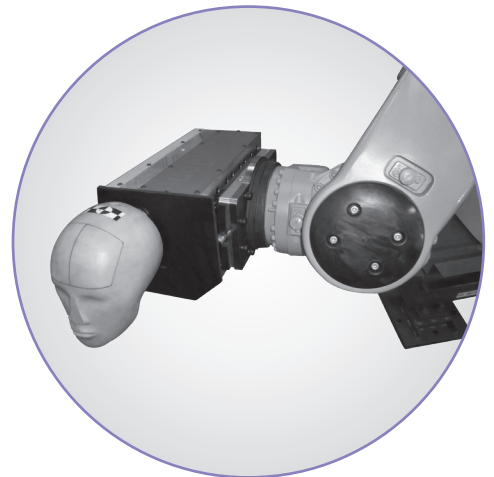
The E-Liner technology is the only system capable of meeting your test speed requirements with an accuracy in the hundredths of kph – without preliminary tests!

The E-Liner FMH is an electrically-driven system used for head impact tests in the vehicle interior according to FMVSS 201u. The system gauges the effectiveness of energy-absorbing materials without head-protection airbags.

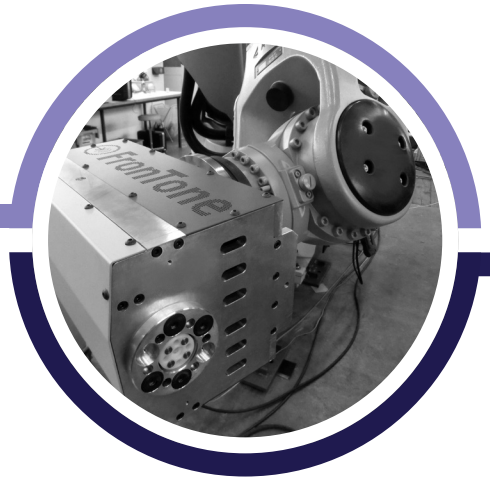
A 6-axes robot with a minimum payload of 150 kg serves as a positioning unit and guarantees user-friendly and precise positioning.

BENEFITS AT A GLANCE

- Increased throughput
- No preliminary tests needed
- Highest precision and repeatability
- Low-maintenance due to the frictionless drive unit
- Intuitive and user-friendly operating software and interface



Technical Specifications



E-LINER FMH MODULE

Power	100% electrically driven
Connection Power Control Cabinet	3 x 400 V ± 10% symmetrical three-phase system (TN-S network, (3Phase + Neutral + PE)) 50/60 Hz maximum voltage imbalance 3%
Test Speed	Up to 24,5 km/h
Launcher Speed Accuracy	+/- 0,1 km/h
Launcher Repeatability	+/- 0,1 km/h
Acceleration Distance	Approx. 100 mm
Hit Accuracy	Within a radius of 5 mm
Max. Impactor Mass at 24,5 km/h	4,6 kg
Dimensions (L/W/H)	Approx. 420/230/240 mm
Weight	Approx. 50 kg
Mounting on Robot	Mounted on robot using linear bearings

POSITIONING UNIT

Industrial Robot	Recommendation: Kuka 6 axes robot with arm extension, min. 150 kg payload
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SYSTEM CONTROL

Hardware and Software	Siemens
User Interface	Intuitive and user-friendly