

# E-Liner PED HEAD

## Pedestrian Protection

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!

E-Liner PED HEAD can be mounted on two different positioning units:

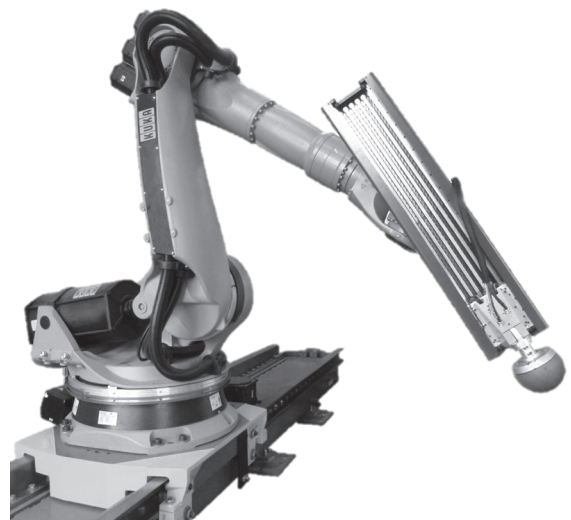
- On a six- or seven-axis industrial robot
- Lower on the E-Liner UNIVERSAL M with PED LEG Module

The following regulations are thereby fulfilled:

EU 78/2009, 631/2009, Euro NCAP, Trias 63, Japan NCAP, MLIT 619 and GTR.

## BENEFITS AT A GLANCE

- No preliminary tests needed
- Virtually maintenance-free due to the frictionless drive unit
- Ideally suited for temperature range of 0°- +60°C
- Highest precision during active dynamic pedestrian protection tests (airbag tests, active hood tests)
- Intuitive and user-friendly operating software and interface



## Technical Specifications



### LAUNCHING UNIT

Power	100% electrically driven
Speed	Up to 42 kph (optional: 50 kph)
Launcher Speed Accuracy	+/- 0,1 kph
Launcher Repeatability	+/- 0,1 kph
Targeting Precision	Within a radius of 5 mm
Max. Impactor Mass at 42 kph	4,5 kg at - 0° vertical
Dimensions (L/W/H)	1165/226/352 mm
Weight	115 kg
Power Supply Cabinet	3x400 Volt AC+N+PE, 50-60 Hz, 32 ampere and the phase voltage may differ by max. 3%

### ROBOT AS POSITIONING UNIT

Industrial Robot	6-axes or 7-axes industrial robot with 120 kg min. payload
Recommended Type	KUKA KR210 R3100 ultra
Power	3x 400 V +N+PE, 1x 32 A
Mounting on Robot	Mounted on robot using linear bearings
Advantage	Two separate systems for legform and headform tests; can be operated independently

### UNIVERSAL M AS POSITIONING UNIT

E-Liner Universal M	E-Liner PED HEAD can also be adapted on the E-Liner UNIVERSAL M with PED LEG module
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### CONTROL

Software	Siemens WinCC
Hardware	PC, Siemens S7
Operating Interface	Intuitive and user-friendly

### TESTING POSSIBILITIES WITH THE E-LINER PED HEAD

- Tests with the 3.5 kg small adult headform impactor
- Tests with the 4.5 kg adult headform impactor