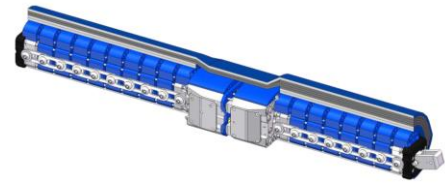


Flexible Lower Legform Impactor Flex-PLI

- Used to evaluate vehicles pedestrian protection;
- Compliances with UN R127 and GB24550;
- Including Skin, Flesh, Femur, Tibia, and Knee Assembly;
- Including Femur and Tibia Bending Moment and Knee Displacements;
- Including Data Acquisition Devices and Software.

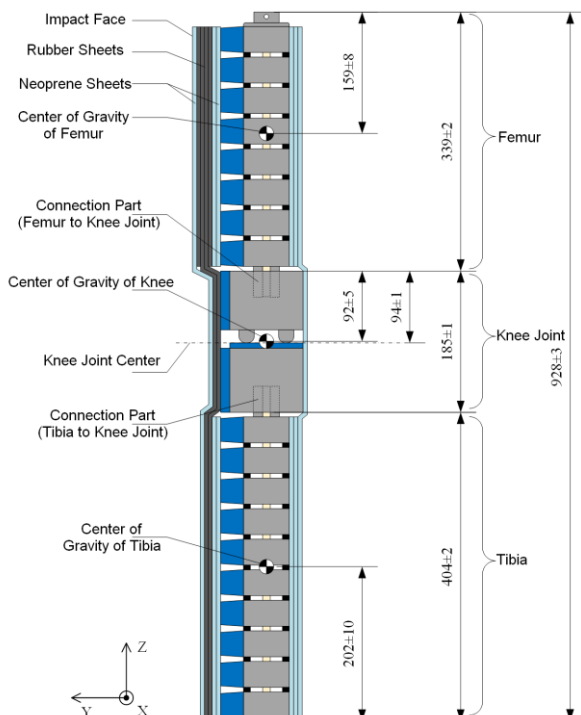


The lower leg impactor Flex-PLI is used for the development and evaluation of vehicle pedestrian protection performance. It mainly includes the response of thigh bending moment (upper, middle, lower), knee ligament stretch (MCL, ACL, PCL, LCL) and calf bending moment (upper, middle upper, middle lower, lower), and can be measured through the corresponding Sensors and data acquisition units collect and record data.

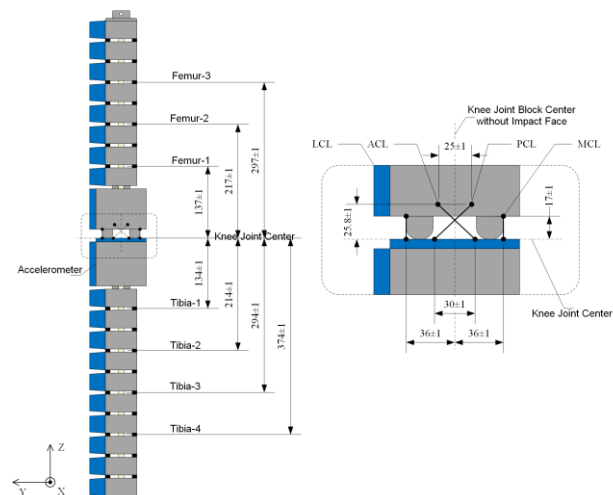
Technical Specification (25°C):

Name	Unit	Value
Femur mass (excl. skin and flesh)	kg	2.46±0.12
Tibia mass (excl. skin and flesh)	kg	2.64±0.13
Knee mass (excl. skin and flesh)	kg	4.28±0.21
Leg mass (excl. skin and flesh)	kg	9.38±0.3
Leg mass (incl. skin and flesh)	kg	13.2±0.4
Femur Inertia (excl. skin and flesh)	kg*m ²	0.0325±0.0016
Tibia Inertia (excl. skin and flesh)	kg*m ²	0.0467±0.0023
Knee Inertia (excl. skin and flesh)	kg*m ²	0.018±0.0009

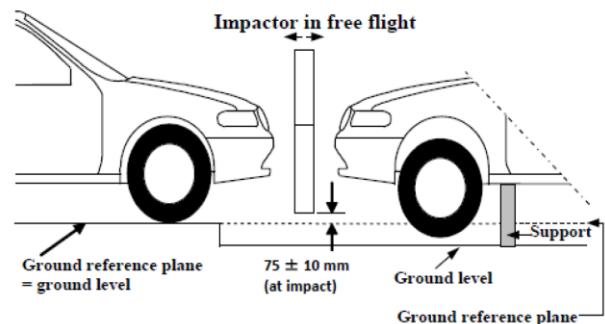
Dimension and centers of gravity locations



Sensors Locations:



Flex-PLI bumper tests for complete vehicle in normal ride attitude and for cut-body mounted on supports:



Flex-PLI Spare parts:

1. Femur Bone Assembly: JEBOOL BASS-FF;
2. Tibia Bone Assembly: JEBOOL BASS-FT;
3. Knee String Displacement Sensor: JEBOOL DSS-35;
4. Flex-PLI Skin and Flesh.