

Bringing new levels of realism and vehicle protection to VRU testing

# Soft Pedestrian 360™



The Soft Pedestrian 360 from DRI is the next generation of articulated surrogate pedestrian target, bringing a whole new level of realism and vehicle protection to VRU testing.

Sophisticated active articulation including upper body joints enables naturalistic movement and the ability to synchronise gait with platform speed, so that acceleration and deceleration are more realistic than ever. Additionally, the Soft Pedestrian 360's robust design has been carefully considered for repeatable, uninterrupted testing.

Available in both adult and child variants, the Soft Pedestrian 360 has been developed by the same team from DRI that brought us the iconic Soft Car 360®. The Soft Pedestrian 360 is the result of years of real-world testing experience gained working with the world's leading OEMs and the NHTSA.



Fully programmable active articulation of hip, knee, shoulder and neck for realistic motion



Euro NCAP approved and complies with ISO 19206-5 draft requirements for pedestrian targets



Step-in-sync functionality ensures legs are synchronised in real-time with platform IMU



Sophisticated active articulation ensures natural gait



No exposed plastic or metal components that can damage vehicle panels and windscreens



Durable servo design with foam protection and clutch mechanism to prevent from being back driven



Modular design for easy reassembly



Compatible with common VRU platforms

# Specifications

## Dimensions

	Adult	Child
Height	1800 mm	1154 mm
Shoulder width	500 mm	308 mm
Weight	6 kg (fully articulated)	2.6 kg

## Performance

	Adult	Child
Maximum collision speed	80 km/h	60 km/h

## Supported sensor testing

	Adult	Child
Ultrasonic	Yes	Yes
Mono/stereo camera	Yes	Yes
Lidar	Yes	Yes
Radar	Yes	Yes
Near infrared	Yes	Yes

## Articulation options

	Adult	Child
Full	Hip, knee, shoulder, neck	-
Standard	Hip, knee, shoulder	-
Basic	Hip, knee	Hip, knee

## Compliance

	Adult	Child
Euro NCAP TB 029	Yes	In progress
ISO 19206-2	Yes	Yes



## Designed for test engineers by test engineers

The Soft Pedestrian 360 is designed and engineered by Dynamic Research, Inc (DRI) in California. For decades DRI has provided research and testing services for the world's leading OEMs, completing hundreds of tests per year, including FMVSS, NHTSA NCAP and Euro NCAP tests.

DRI has leveraged its extensive hands-on experience with test targets and equipment in nearly every possible scenario to design, develop, and produce a range of best-in-class surrogate targets such as the Soft Car 360.



## About AB Dynamics

AB Dynamics is a leading global provider of automotive test and verification solutions that facilitate the development of vehicles that are safer, more efficient and sustainable. As part of the AB Dynamics Group of companies we enable customers to develop and test in virtual environments, validate on the track and then evaluate vehicles on public roads.

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