

Ride into the future of VRU testing

# Soft Bicycle 360™



As regulatory bodies such as Euro NCAP expand scenarios involving cyclists, the need for a reliable and innovative ADAS bicycle target has never been greater.

The Soft Bicycle 360's design focuses on realism and minimising damage to vehicles under test. Recognised as a real bicycle by sensing technologies including camera, radar, and lidar, it is also compact, lightweight, and robust. The Soft Bicycle 360 increases test efficiency and uptime so you can conduct more tests without interruption.

Providing unrivalled stability in straight lines and cornering, the Soft Bicycle 360 is perfect for current testing requirements and is ready to replicate more challenging future scenarios.



30% lighter than comparable bicycle targets



Soft structure and light weight minimises target and test vehicle damage



Durable nylon hub and spoke wheel design with soft protruding tyres



Rotating wheels provide speed-matched Doppler effect for radar sensors



Smooth reverse running for easy repositioning



Stable at up to 40 km/h when paired with LaunchPad™



Less than 3 minute rebuild time



Complies with 19206-4 requirements for bicyclist targets



Modular design for easy reassembly



Moulded rubberised single piece frame with internal reinforcement

# Specifications

## Dimensions

Wheelbase	1210 mm
Wheel diameter	680 mm
Weight	8.2 kg

## Performance

Maximum speed at which target is stable	40 km/h
---	---------

## Supported sensor testing

Micro-doppler	Yes
Camera	Yes
Lidar	Yes
Radar	Yes

## Compliance

Euro NCAP	Submission pending
ISO 19206-4	Yes



## Designed for test engineers by test engineers

The Soft Bicycle 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 for nearly every possible scenario to design, develop, and produce a range of best-in-class surrogate targets such as the Soft Car 360 and Soft Pedestrian 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.

For more information:  
[www.abdynamics.com](http://www.abdynamics.com)  
[info@abdynamics.com](mailto:info@abdynamics.com)

### SP46 Issue 2

©2024 AB Dynamics plc. All rights reserved. AB Dynamics®, DRI™, LaunchPad™, Soft Car 360®, Soft Pedestrian 360™ and Soft Bicycle 360™ are trademarks and the property of AB Dynamics or its subsidiaries in the United Kingdom and elsewhere. Systems, components, methodologies and software supplied may be the subject of patent and design rights. Whilst this information is provided in good faith, no warranty or representation is given concerning such information, which must not be taken as establishing any contractual or other commitment binding upon AB Dynamics plc or any of its subsidiaries.

