

Bringing new levels of realism and durability to VRU testing

# Soft Motorcycle 360™



The Soft Motorcycle 360 from DRI is a durable and realistic surrogate motorcycle target that is stable at speeds of up to 80km/h. Its rotating wheels and realistic shape mean that it is reliably recognised by vehicle sensor systems including cameras, radar and lidar.

Durability is key to the Soft Motorcycle 360's design, with its lightweight foam construction minimising the potential for vehicle and target damage. Plus its modularity means that when parts are damaged they can quickly and easily be replaced.

Developed by the same team from DRI that brought us the iconic Soft Car 360®, the Soft Motorcycle 360 is the result of years of real-world testing experience gained working with the world's leading OEMs and the National Highway Traffic Safety Administration (NHTSA).



Recognised as a real motorcycle by sensing technologies including camera, radar and lidar



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



Rotating wheels provide speed-matched Doppler effect for radar sensors



Stability proven at 80 km/h paired with LaunchPad™



Soft structure and light weight minimises damage to target and test vehicle



Abrasion resistant materials and field-repairable finish ensure target longevity



Modular design for easy reassembly



Moulded foam construction enables realistic shape for improved visual recognition

# Specifications

## Dimensions

Wheelbase	1460mm
Wheel diameter	635mm
Overall height	1670mm
Width	610mm

## Performance

Maximum operation speed	80km/h
Water resistance	Yes

## Supported sensor testing

Ultrasonic	Yes
Mono/stereo camera	Yes
Lidar	Yes
Radar	Yes

## Compliance

Euro NCAP 2023 protocol	Yes
ISO 19206-5 WD	Yes



## Designed *for* test engineers *by* test engineers

The Soft Motorcycle 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.



## 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)

SP31 Issue 5

©2022-2024 AB Dynamics. All rights reserved. AB Dynamics®, DRI™, LaunchPad™, Soft Car 360® and Soft Motorcycle 360™ are trademarks and the property of AB Dynamics plc 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.

