



Product specification

Soft Motorcycle 360™



The Soft Motorcycle 360 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 recognized by vehicle sensor systems including cameras, radar and lidar.

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

The Soft Motorcycle 360 was developed by the same team that brought us the iconic Soft Car 360®, and its design 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).



Recognized 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 when paired with the AB Dynamics LaunchPad™ 80 platform



Soft structure and light weight minimizes 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	651mm
Overall height	1751mm
Width	542mm

Performance

Max. collision speed	80km/h
Water resistance	Yes

Supported sensor testing

Ultrasonic	Yes
Mono/stereo camera	Yes
Lidar	Yes
Radar	Yes

Compliance

ISO 19206-5 WD	Yes
Euro NCAP approved	Yes



About DRI

DRI is an AB Dynamics Group company that has provided research and testing services to the world's leading vehicle manufacturers and suppliers for over 40 years. Today, we provide year-round dynamics, ADAS and K&C testing services from our California proving ground. We also offer comprehensive human factors research services and have developed a world-leading range of surrogate ADAS targets.

For more information: www.dynres.com | info@dynres.com

©2025 Dynamic Research, Inc. All rights reserved. AB Dynamics®, DRI™, LaunchPad™, Soft Car 360®, Soft Motorcycle 360™ and Soft Pedestrian 360™ are trademarks and the property of AB Dynamics plc or its subsidiaries in the United States of America, 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.