

Moving barrier for side impact tests according to IIHS side impact crashworthiness evaluation 2.0 crash test protocol.

- Integrated hydropneumatic brake for emergency braking and second impact avoidance with optional wireless operation
- Individually calibrated center of gravity and moment of inertia
- Mounting plates for sensors and data acquisition system
- Height adjustable front shield



## TECHNICAL SPECIFICATIONS

Moving Barrier	
Weight (with honeycomb and camera stand)	1,900 ± 5 kg
Dimensions (L x W x H) (without honeycomb and camera stand)	3,920 mm x 1,929 mm x 1,060 mm
Height (with camera stand)	1,760 mm
Dimensions front plate (W x H)	1,700 x 700 mm
Height adjustable front shield	± 30 mm
Deformable element clearance height	350 mm
Center of gravity	X-axis: 1,236 ± 10 mm rearward of the front axle Y-axis: 0 ± 10 mm from the lateral centerline Z-axis: 651 ± 10 mm above ground level
Moment of inertia	Around X / roll: 581 kgm <sup>2</sup> Around Y / pitch: 3,688 kgm <sup>2</sup> Around Z / yaw: 4,049 kgm <sup>2</sup>
Max. test speed	60 ± 1 km/h
Mounting grid for data acquisition equipment	50 mm x 50 mm (M6)
Brake System	
Brake system type	Hydropneumatic
Operating air pressure	6...8 bar (resulting in 100...120 bar hydraulic pressure)
Dimensions (L x W x H) incl. mounting plate	574 mm x 429 mm x 297 mm
Mounting grid	200 mm x 365 mm (M10)
Weight	13 kg
Power supply	12 VDC
Typical power consumption (standby)	25 mA
Battery capacity	1,800 mAh, 12 VDC (NiMH)
Battery operating temperature	0...45°C
Brake fluid	DOT 4

- Scope of supply**
- Moving barrier IIHS 2.0
  - Camera stand
  - Hydropneumatic brake
  - Cable support tube for trailing cable
  - Compensation weight for onboard equipment

- Required equipment**
- Honeycombs

- Options**
- Integration of hydropneumatic brake into MESSRING facility control system with possibility of brake signal via radio
  - Mobile radio unit and stationary radio unit for hydropneumatic vehicle brake
  - Trailing cable system
  - M-BUS data acquisition system