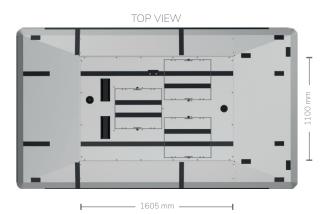


- Low overrun height of 98 mm to be overrun/ over-braked by a vehicle without damaging the vehicle or the target carrier
- Quick and simple access to all internal components with a single central cover plate which can be easily removed with just a few screws
- Hot swappable batteries to continuously run high speed tests (i.e. Euro NCAP lane support system tests) with zero downtime for recharge; this feature also enables replacement batteries to be charged while other battery sets are active, allowing us to extend battery life and ease of transportation by UN38.3 certification
- Removable ramps simplify transportation and storage by reducing the overall size and weight of the target carrier, which can be easily transported with any standard minivan-sized vehicle
- 100% splash water protection system allows for testing in adverse weather conditions (e.g. muddy, wet, salty) and minimizes maintenance effort and cost

- Designed to enable fast wheel changes
- Screw-less, welded ramp system for reduced Radar Cross Section (RCS)
- Stable 4-wheel chassis for minimized rolling of the target in dynamic lateral motions (e.g. wind suction/ slipstream during overtaking)
- Designated official tool by Euro NCAP laboratories
 (e.g. ADAC, AstaZero, CSI, Thatcham)
- Global Vehicle Target (GVT) and UFO Target Carrier in accordance with the Euro NCAP/NHTSA/IIHS confirmation workshops
- Several standard safety functions ensure safety of operators; optional add-ons such as proving ground warning lights and monitoring systems can be integrated into the UFO product family







UFOpro TARGET CARRIER

UFOPRO TARGET CARRIER

The UFOpro is the default version of the UFO; with its low overrun height of 98 mm and hot swappable batteries, it is designed for Euro NCAP ADAS testing. The UFOpro is available with an optional ABS system, as well as a Heavy Duty version with reinforced ramps and batteries, allowing it to be overrun by commercial vehicles up to 40 tonnes. An additional set of batteries can be purchased separately.

UFOPRO BLACKSERIES TARGET CARRIER

With a maximum speed of 100 km/h including a GVT target, the UFOpro BlackSeries¹ is a step up from the UFOpro. It has an increased gear ratio as well as a specific control algorithm for high speeds. Like all UFOs, the UFOpro BlackSeries is available with an optional ABS system. Both the UFOpro BlackSeries and the UFOpro share a similar mechanical design, so that an UFOpro can easily be upgraded to an UFOpro BlackSeries.

Arrow Ramps

Can be swapped with standard front ramp for side impact testing of cars.



See the Arrow Ramps in action.



Additional Lithium Power Pack

Extra power pack allows ongoing testing without downtime for charging batteries.



See the fast and easy battery swap.



Anti-Lock Braking System (ABS)

The UFO platform's ABS extends tire life, saving time and money in addition to reducing waste

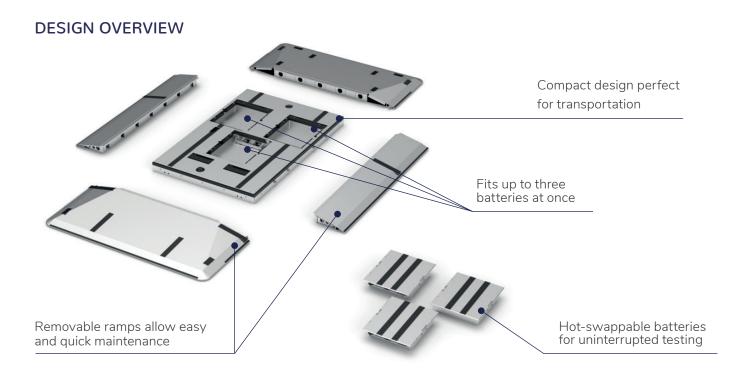


See the ABS in action.



¹ The designated hereinafter referred to as UFOpro BlackSeries, is describing UFOpro BlackSeries target carrier

UFOpro TARGET CARRIER



Specifications

	Transportation Size	1605 x 1100 mm
S	Test Ready Size	2950 x 1690 mm
<u>o</u>	Chassis Height	98 mm
DIMENSIONS	Test Ready Weight	244 kg (Standard) / 264 kg (BlackSeries)
₩ W	Payload	125 kg
	Overrun Capacity (per wheel)	1500 kg (Standard) / 3600 kg (Heavy-Duty)
	Clearance	15 mm
	Maximum Speed Forward	80 km/h (Standard) / 100 km/h (BlackSeries)
CS	Maximum Speed Backward	20 km/h
DYNAMICS	Maximum Longitudinal Acceleration	1.8 m/s² (Standard) / 1.4 m/s² (BlackSeries)
Ž	Maximum Longitudinal Deceleration	6 m/s ²
<u> </u>	Maximum Lateral Acceleration	1.5 m/s ²
	Minimum Turning radius	6 m

UFOpro TARGET CARRIER

SPECIFICATIONS

	Batteries Included	2
	Batteries Included UFOpro BlackSeries	3
	Chargers Included	2 (Standard) / 3 (BlackSeries)
	Battery Technology	Lithium Ion (LiFePO4)
ENERGY	Battery Capacity	2048 Wh (Standard) / 3072 Wh (BlackSeries)
H N N	Voltage	51.2
	Battery Slots	3
	Battery Swapping Time	2 minutes (hot swappable)
	Battery Set Charging Time	90 minutes
	Battery Life Time (common NCAP Testing)	Full testing day (up to 60-80 NCAP scenarios)
	Speed Control Accuracy	0.2 km/h
≿	Speed Measurement Accuracy	0.01 km/h
ACCURACY	Side Control Accuracy	50 mm
	Yaw Rate	+/- 1 deg/s
ACC	Accuracy	in line with ISO 19206-7
	GNSS Unit Oxford	OEM3000v3
	GNSS Unit SBG	-
цO	Radar Cross-section	in line with ISO 19206-3
REA OI	Drive-over Capacity	Passenger vehicles Commercial vehicles Heavy Duty vehicles
APF	Targets (main use)	Passenger Vehicle 3D Target REF. F & G
SZ	Operation Temperature Range	-10° C to 45°C
<u>Ö</u>	IP Rating	IP65
ONDITIONS	Relative Humidity Range	0%-95%, not condensing
O		

The UFOpro supports the following scenarios

- Automatic Emergency Brake Carto-Car (AEB-C2C)
- Forward Collision Warning Car-to-Car (FCW-C2C)
- Emergency Lane Keeping (ELK) (oncoming-overtaking)
- Automatics Emergency Steering (AES)
- Emergency Steering Support (ESS)
- Rear Automatic Braking
- Blind Spot Detection
- Blind Spot Intervention
- Intersection Safety Assist
- Opposing Traffic Safety Assist
- Traffic Jam Assist

.... and many more scenarios thanks to the flexibility of our Trajectory Generator Software.



Recommended Storage

Temperature

 $5^{\rm o}$ C to $25^{\rm o}$ C