



UFO

Ultra Flat Overrunable robot for ADAS testing

The Ultra Flat Overrunable robot platform and its complementary self-driving robot provide the perfect testing solutions for the development of active safety systems.

During the development of UFO, special attention was paid to ensure optimum testing efficiency and ease of servicing of the system. The UFO was specifically designed with removable ramps for ease of transportation and storage, and therefore can be readily transported with any standard minivan-sized vehicle. The removable batteries also facilitate continuous testing, eliminating downtime for recharge and enable replacement batteries to be charged at a slower rate – thus extending battery life. In addition, the UFO is designed with one central cover plate that can be effortlessly removed with just a few screws, which allows for easy and quick access to all internal components. The entire system is also made to be 100% waterproof for easy cleaning and maintenance, especially when tests are performed under less than favorable conditions.

The newly introduced self-driving robot is the perfect complement to the UFO platform. Its smart and compact design allows for quick and space-saving installation. The all-inclusive driving robot box, containing all electronic components, can be easily installed with ISOFIX in the rear seat. Therefore, the passenger seat and trunk are freed for test engineers, electronics and data acquisition systems.

DESIGNATED OFFICIAL TOOL BY EURO NCAP

ADVANTAGES

Removable Ramps

- Size & weight reduction for easy transportation

Removable Battery

- Eliminates downtime for recharge; extends battery life
- Flexibility and weight reduction for transportation

100% Waterproof

- Easy cleaning & maintenance

Fast Wheel Change

- Ease of maintenance
- Changeable on testing sites

Multiple Safety Functions

- Ensure safety of operators

Smart Software

- User-friendly interface for programming and controlling

Ultra-flat Design

- Overrunable with test vehicle, also during overbraking

Available in Various Sizes

- To accommodate a wide range of testing needs

UFO Models

- UFOmini
- UFOpro
- UFOpro Black Series



PRODUCT SPECIFICATIONS

	UFOmini	UFOpro	UFOpro Black Series
Engines	48V	48V	48V – high performance, brushless
Maximum power	15kW	25kW	30kW
Power electronic	350A	450A	450A
Battery	1 Lithium power pack	2 Lithium power packs	3 Lithium power packs
Maximum speed	35kph	85kph	100kph
Maximum acceleration	3m/s ² (up to 20kph)	3m/s ² (up to 20kph)	3m/s ² (up to 20kph)
Maximum acceleration w. GVT	—	1.4m/s ²	1.4m/s ²
Controlled deceleration	6m/s ²	6m/s ²	6m/s ²
Emergency deceleration	6.5m/s ²	7m/s ²	7m/s ²
Transportation size	835 x 1180mm	1605 x 1100mm	1605 x 1100mm
Test ready size	1280 x 1630mm	2950 x 1690mm	2950 x 1690mm
Carrying weight	101kg	126kg	264kg
Test ready weight	153kg	244kg	264kg