



# 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 <sup>2</sup> (up to 20kph) | 3m/s <sup>2</sup> (up to 20kph) | 3m/s <sup>2</sup> (up to 20kph)   |
| Maximum acceleration w. GVT | —                               | 1.4m/s <sup>2</sup>             | 1.4m/s <sup>2</sup>               |
| Controlled deceleration     | 6m/s <sup>2</sup>               | 6m/s <sup>2</sup>               | 6m/s <sup>2</sup>                 |
| Emergency deceleration      | 6.5m/s <sup>2</sup>             | 7m/s <sup>2</sup>               | 7m/s <sup>2</sup>                 |
| 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                             |