UFO-50 / UFO-75
Ultraflat Overrunable Robot for experimental ADAS Testing

- Only 98mm overrun height
- Optimized ramps for smooth overrun
- 55 kph / 80 kph maximum speed
- Real 2d scenarios with moving car dummy
- High accuracy with inertial platform + dGPS
- Autonomous driving
- Synchronized motion by triggering
**UFO-50**

**Facts**
- 48V engines
- 1 Lithium Power Pack
- Test Speed EVT: 50kph
- Max. Speed: 55kph
- Max. Acceleration: 3m/s² (up to 20kph)
- Controlled Decel.: 6m/s²
- Emergency Decel.: 7.5m/s²
- Transportation Size: 1100x1140mm
- Test Ready Site: 1800x1800mm
- Carrying weight: 88kg
- Test Ready Weight: 162kg

**Your advantages**
- Removable ramps ➔ size and weight reduction – for fast and easy transportation
- Removable battery ➔ no need to discontinue testing for charging – max. efficiency
- Transp. handles ➔ convenient handling and manipulation
- Fast wheel change ➔ change all tires within 15 min. – wheel change on proving ground possible
- Several safety functions ➔ safe testing on proving grounds
- Smart software ➔ fast and easy programming and controlling of UFO
- Ultra flat design ➔ over-run able with test car even at overbreaking
- Robust 3D car dummy ➔ no need to reassemble after crash

---

**UFO-75**

**Facts**
- 48V engines
- 2 Lithium Power Packs (3rd optional)
- Test Speed 3D car: 75kph
- Max. Speed: 80kph
- Max. Acceleration: 3m/s² (up to 30kph)
- Controlled Decel.: 6m/s²
- Emergency Decel.: 7.5m/s²
- Transportation Size: 1600x1140mm
- Test Ready Site: 2300x1800mm
- Carrying weight: 120kg
- Test Ready Weight: 235kg
Robot Options

Arrow ramp
- Complementary to standard front ramp
- Designed for smooth slide under car
- Crash directly into side of tire possible!

Narrow ramps
- Adopts width of UFO to EVT width
  - UFO-50: 1800x1500mm
  - UFO-75: 2300x1500mm
- for longitudinal overrun

Pedestrian Arm
- Pedestrian kit to push dummy by UFO
- UFO is kept >3.5m away of test path
- With EuroNCAP conform mounting platform
- Automatic arm release when overrun
Communication Options

Vehicle Box
- Communication between car and UFO
  - LAN, CAN, RS232 connections
- Optional:
  - Upload function – brings UFO data into the car
  - ISO FIX mounting unit for easy fixation
    incl. horizontal adjustability

Outdoor W-LAN Light Gates
- No GPS in car mandatory!
  - Quick testing possible
  - Testing with several cars possible
- TAG Heuer Light Gate
  - Electronic in waterproof case
  - W-LAN connection to UFO

Dummy Options

Inflatable 3D Car Dummy
- Tube structure
- Printed cover
- Very robust
- Fast and easy assembling
- No reassembling after crash!
- 40kg
- Optional:
  - Radar reflectors
  - Radar absorbers
  - PVC windows for reflections
  - Wheel extensions for ground contact
  - Several colours