UFOmicro® TARGET CARRIER

The UFOmicro® target carrier is developed specifically for PTW (Powered Two Wheeler) and VRU (Vulnerable Road User) tests.

To cover realistic road traffic conditions and behavior of road users, the UFOmicro® can reach a speed of up to 90 km/h carrying a wide range of targets and can be used for heavy duty tests. With its mountable extension, it can carry bicycle and different pedestrian VRU targets with no effort.

The UFOmicro® can be seamlessly integrated into any already existing Humanetics UFObase software environment. Configuring and testing complex real-world scenarios with up to ten robots can be accomplished easily due to seamless synchronization.

To maximize reliability and repeatability, the **UFOmicro®** was designed to maintain extremely precise accuracies in both the lateral and longitudinal directions during testing.

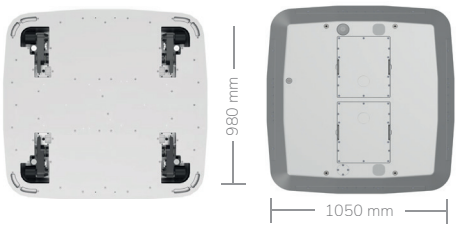
Radar measurements have been conducted to confirm the extremely low radar signature of the stealth design.

The target carrier is equipped with multiple motion data input and output interfaces and a highly accurate dual antenna DGNSS system.

As with the all other Humanetics UFO models, the UFOmicro® is overrunable and has the advantage of high-capacity, swappable batteries.

The VRU Extension allows VRU targets to be mounted for testing at 25mm above the ground, in accordance with ENCAP regulations. The PTW extension is used to increase stability for high speed tests.

UFOmicro® with PTW target



Dimension of UFOmicro®

UFOmicro® with Pedestrian Adult target

Scan to see the UFOmicro® target carrier in action.

UFOmicro® TARGET CARRIER

SPECIFICATIONS

DIMENSIONS	Transportation Size	1050 x 980 mm
	Test Ready Size	1050 x 980 mm
	Chassis Height	70 mm
	Test Ready Weight	85 kg
	Overrun Capacity (per wheel)	3600 kg
	Clearance	15 mm
DYNAMICS	Maximum Speed Forward	90 km/h
	Maximum Longitudinal Acceleration	4 m/s²
	Maximum Longitudinal Deceleration	6 m/s²
	Maximum Lateral Acceleration	3 m/s²
	Minimum Turning Radius	8 m
ENERGY	Batteries Included	2
	Battery Technology	Lithium Iron Phosphate (LiFePO4)
	Battery Slots	2
	Battery Swapping Time	2 minutes (hot swappable)
	Battery Set Charging Time	25 minutes
	Battery Life Time (common NCAP Testing)	Half testing day
GNSS	Accuracy	in line with ISO 19206-7
	GNSS Unit Oxford	OEM1000v2
	GNSS Unit SBG	Ellipse-D
AREA OF APPLICATION	Radar Cross-section	in line with ISO 19206-9 / 19206-5 / ISO 19206-4 / ISO 19206-2
	Drive-over Capacity	Passenger Vehicles Commercial Vehicles Heavy Duty Vehicles
	Targets (main use)	European Motorcycle (EMT) E-Scooter CNCAP Target (PTW) Pedestrian Adult Target Articulation (EPTa) Pedestrian Child Target Articulation (EPTc) Bicyclist Adult Target (EBTa) Bicyclist Child Target (EBTc) Playing Child Target (PCT) Standing Scooter Target (SST)
CONDITIONS	Operation Temperature Range	-10° C to 50° C
	IP Rating	IP66
	Relative Humidity Range	0%-95%, not condensing
	Recommended Storage Temperature	5° C to 25° C

KEY FEATURES

- Hot swappable batteries
- Speeds up to 90 km/h
- Weather resistance due to waterproof design
- Special stealth shell design for optimized radar signature
- Highly accurate dual antenna RTK DGNSS system
- Compatible with a large variety of targets and multiple extension options
- Milled from a solid aluminum block for efficient cooling and high-temperature operation

HUMANETICS