WASTESHARK

Designed to clear unwanted debris
Plastics, general trash
Oils and other pollutants
Pest flora: algae, duckweed, water hyacinth, etc

Designed to be powerful
350 kilograms payload capacity
Ambient temperature 0–60°C
Waves and swell to 1.25 metres

Designed for urban water
Compact, agile, lightweight, transportable
Navigates confined spaces & tight angles
Quiet and unobtrusive

Designed to collect data
Above or below water
Live stream to your Smart City
Enabling evidence-based management

Designed to be harmonious
Zero carbon emissions
No noise or light pollution
Friendly to animals

RANMARINE
technology

WASTESHARK

Size	**1556 x 1078 x 450 millimetres**
Tare	**50 kilograms**
Buoyancy	**400 kilograms**
Payload capacity	**350 kilograms**
Storage capacity	**200 litres by volume**
Cruising speed	**10-12 km/hr**
Thrust	**5.1 kgf forward (4.1 kgf reverse)**
Swim time	**Up to 8 hours per battery charge**
Power source	**LiFePO$_4$ rechargeable battery**
Hull	**Maritime-grade polymer**
Operating environment	**0–60° Celsius ambient, waves & swells to 1.25m (Douglas scale 3)**
Useful life	**5 years expected minimum (with daily use)**
Greenhouse emissions	**Zero**

www.ranmarine.io

WASTESHARK

	Class A: remote control	Class B: autonomy level 1
steering & navigation	Human brain (with handheld device)	Autonomous: defined path or random walk
collision avoidance	Human brain	Automated
connectivity	Radio frequency	TCP/IP secure wifi
telemetry	Battery level, payload capacity	GPS, battery level, payload capacity
data collect & stream	External devices only	Sensor array on board, customised
effective range	1,000 metres line of sight	5,000 metres
return to home	Human brain	Automated
waste collection	Human brain	Automated

www.ranmarine.io

WASTESHARK

Oliver Cunningham of RanMarine
and Sir Robert Syms MP
BBC interview, 22 June 2018
Parkstone Bay Marina, Poole

BBC NEWS

www.ranmarine.io