



ORCA is an autonomous, remote controlled high speed USV naval patrol system. Compact and low profile, it can covertly fulfill a multitude of missions in high risk environments

The USV Platform is an effective tool to enhance intelligence, surveillance, and reconnaissance (ISR) coverage, especially when deployed from a naval ship

ORCA is equipped with various safety, data collection and electro-optic payloads for secure autonomous operation
Therefore, it can be used to patrol an area on a persistent basis thus lowering risk to manned vessels and personnel

MAIN APPLICATION

- AUTOMATIC NAVIGATION
- OBSERVATION TASKS & DATA COLLECTION
- PATROL TASKS
- MANUAL CONTROL
- TARGET TRACKING
- SECURITY & HLS

VESSEL SPECIFICATIONS



ORCA USV

ENGINE ROTAX 1630 ACE 300 HP 1.630CC, 60 LITER
FUEL TANK WEIGHT CAPACITY 272 kg, CLOSED-LOOP
COOLING SYSTEM (CLCS)

MECHANICAL LENGTH 3.5 m, WIDTH 1.3 m

JET SEADOO RXT-X 300, SPEED 100 km/h

OPERATION MODES AUTOMOUS, REMOTE
CONTROLLED, AUTO TRACKING

ENERGY SYSTEM

SMART ENERGY CONTROLLER
ENERGY BANK/FUEL TANK

COMMUNICATION OPTICAL ACCORDING TO CLIENT
REQUIREMENTS, SAT, RF, LTE

ELECTO OPTIC PAYLOADS

FUEL CAPACITY 60 LITRE
LENGTH (BUMPER TO BUMPER) 336.8
cm
WIDHT 123.1 cm
WEIGHT (DRY) 363 kg
STORAGE CAPACITY 116.6 m³

MARINE DIESEL YANMAR 6LPA-STP2

ENGINE CONFIGURATION 4-STROKE, VERTICAL, WATER-
COOLED DIESEL ENGINE, 232 kW@3800 rpm [315
mhp@3800 rpm], 4.164ltr

BORExSTROKE 94mm x 100mm, 6 in LINE, 4-
VALVES PER CYLINDER, TURBOCHARGED WITH
INTERCOOLER, ELECTRIC STARTING 12V – 2.5 kW,
12V-80A

COOLING SYSTEM

FRESH WATER COOLING BY CENTRIFUGAL
FRESH WATER PUMP AND RUBBER IMPELLER
SEAWATER PUMP COUNTERCLOCK WISE VIEWED
FROM FLY WHEEL SIDE, ENGINE MOUNTING
RUBBER TYPE FLEXIBLE

DRY WEIGHT (without gear) 408 kg