

PROJECT 12300 SCORPION

Missile Boat



Mission

Project 12300 Scorpion missile boat is designed to engage enemy surface ships, boats, and transports both autonomously and in cooperation with naval attack forces.

Features

The boat's hull and superstructure are slanted (seven to ten degrees and more), and other stealth technologies are also employed to reduce its radar signature.

Main propulsion plant

The boat can be powered by two MTU 16V1163TB93 diesels, or one GTU-12 gas turbine and two M530/MTU 16V 4000 M90 diesels.

Electric power is supplied by one DGF2A 100/1500 and two DGR2A 200/1500 diesel generators. It also has two 1EKPV 15/150 electric compressors.

Armament & Equipment

Attack missile systems

- Yakhont anti-ship missile system with two twin launchers and 3R50E-12300 fire control system (four missiles in TLCs), or Uran-E anti-ship missile system (eight 3M-24E missiles in TLCs) with two quadruple 3S-24E launchers and 3R-60UE fire control system)
- Kashtan-1 air defence gun/missile system (four SAMs, 2,000 rounds plus option of surplus 1,000 rounds)
- 100mm A-190-5P-10E versatile artillery system, comprising A-190 gun mount (80 rounds) and 5P-10E fire control radar
- two DP-64 anti-saboteur grenade launchers
- PK-10 decoy system with two/four KT-216 launchers

Electronic equipment

- Monument-E/Pozitiv-ME target detection/designation radar
- TK-25E-1 ECM system
- IFF system
- Podzagolovok-24E mutual interference avoidance system
- Combat information management system
- Sigma-E Sonar equipment
- Pallada combat swimmer detection sonar
- Navigation equipment
- Ladoga-ME navigation system
- Gyuis gyrocompass
- LEM2-1 log
- NEL-20K navigation echosounder
- SN-3103 satellite navigation equipment
- KM115-07 magnetic compass

Basic specifications

| | |
|---------------------------------------|-------------|
| Displacement, full load, t | about 460 |
| Max length, m | about 57 |
| Max beam, m | about 10.3 |
| Depth, midship, m | about 5.3 |
| Draught, midship, full load, m | about 2.5 |
| Speed, kts: | |
| maximum, with diesels | about 33 |
| maximum, with diesels and gas turbine | about 40 |
| economical | 12-13 |
| Range at economical speed, n.miles: | |
| full fuel | about 1,500 |
| max fuel | about 2,000 |
| Endurance, days | 10 |