



# Fassmer OPV 2020

## The art of improvement

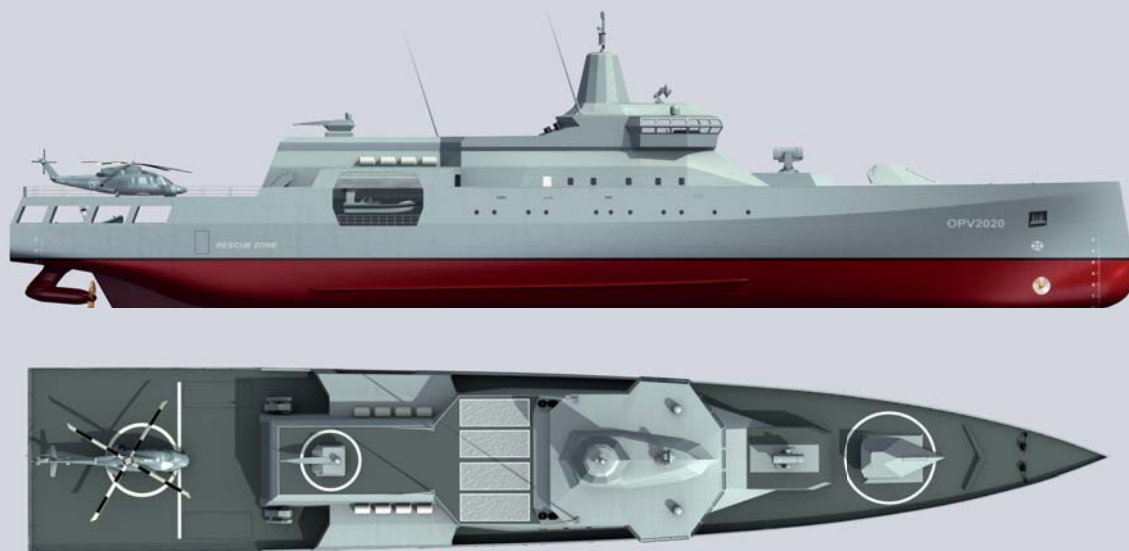
# Maximum mission effectiveness with minimal emissions.

Designed as the successor of Fassmer's highly reputed OPV 80, the OPV2020 concept is an innovative patrol vessel with design flexibility to match a wide range of threats and missions. The OPV2020 is powered by a fully optimized all-electrical propulsion plant for maximum operational flexibility combined with fuel efficiency and minimized NOx and CO2 emissions, in line with forthcoming environmental regulations. The vessel can operate in dual fuel mode, producing extremely low emissions while running on LNG and allowing operations in remote areas using DMFO.

Furthermore, mission performance is improved by a platform capable of handling up to 9 mission modules that can be comprehensively integrated into the platform including connection to the vessel administrative and mission networks. The deployment of boats, helicopters, AUVs, AAVs and other vehicles convert the OPV2020 into a mother ship within the mission scenario. The OPV2020 is also designed to contribute to mine warfare and ASW missions through modular payload. The OPV2020 is a novel concept based on existing, proven technologies that are commercially available off the shelf.







# OPV 2020

# Offshore Patrol Vessel

## Main Dimensions

Length over all	98,20 m
Beam (amidships)	14,00 m
Beam (aft)	16,00 m
Displacement	1980 t
Draught	5,00 m
Speed	20-25 knots
Range (Diesel)	10.000 nm
Range (LNG)	2.600 nm
Endurance	30 days
Patrol time on LNG	10 days @ 12-14 knots

## Propulsion

Gensets	5 x 1800 kW
	Dual Fuel
Propulsion	2 x azimuthal pods (with pull propellers)
Bow Thruster	1 x 350 kW
IPMS	
AUT/UMS Class	

## Mission Modules

Foredeck (1 TEU)	CIWS, CMS
Midships (4 TEU)	4 LNG tanks or CIWS, CMS, Decoys Medical, SSM, Media Centre
Aftdeck (4 TEU)	ASW, Mine Warfare, Pollution Control, UUV

## Capacities

Fuel (DMFO)	250 m³
Fuel (LNG)	110 m³
Helo Fuel	40 m³
Freshwater	60 m³

## Accommodation

Core complement	30
Mission teams/other	60
Sickbay, treatment room	



- Humanitarian relief
- ASW / towed sonar
- Pollution response
- UUV / mine warfare

- 4 x LNG tanks
- Accommodation modules
- Protected sides
- Additional CMS or SSM



- Azimuthal electrical pods
- Large flight deck for helicopters and UAV
- RHIB Special Forces boat
- Stern ramp system



- Innovative bow design
- Stealth gun
- CIWS



**OPV2020**  
**Offshore Patrol Vessel**

Length over all	98,20 m	Speed	20-25 knots
Beam moulded	14,00 m	Displacement	1980 t



**OPV 90**  
**Offshore Patrol Vessel**

Length over all	92,50 m	Speed	24-27 knots
Beam moulded	13,00 m	Displacement	1900 t



**OPV 80**  
**Offshore Patrol Vessel**

Length over all	80,60 m	Speed	20-24 knots
Beam moulded	13,00 m	Displacement	1850 t



**IPV 60**  
**Inshore Patrol Vessel**

Length over all	60,00 m	Speed	20-26 knots
Beam moulded	10,20 m	Displacement	600 t



**CPV 40**  
**Coastal Patrol Vessel**

Length over all	40,00 m	Speed	20-30 knots
Beam moulded	7,40 m	Displacement	245 t



**FPB 34**  
**Fast Patrol Boat**

Length over all	34,20 m	Speed	24-30 knots
Beam moulded	7,00 m	Displacement	125 t



**FPB 27**  
**Fast Patrol Boat**

Length over all	27,20 m	Speed	24-30 knots
Beam moulded	6,20 m	Displacement	70 t



**FPB 21**  
**Fast Patrol Boat**

Length over all	21,00 m	Speed	24-32 knots
Beam moulded	5,80 m	Displacement	45 t