



DAMEN SCHELDE NAVAL SHIPBUILDING

CROSSOVER XO 139 CF (Combatant Fast)

GENERAL

The Damen CROSSOVER is the ultimate mission modular naval concept. As multiple modes of access and handling are provided, future systems, unknown at the present, will be able to be fitted and operated.

OPERATIONAL PROFILE

Permanently fitted mission systems, complemented by capability packages, provides the CROSSOVER with a wide operational profile:

- Mine Counter Measure (MCM)
- Search and Rescue (SAR)
- Hydrographic Survey
- Humanitarian Aid
- Counter Human Trafficking
- Anti-Submarine Warfare (ASW)
- Oil Pollution
- Counter Terrorism
- Harbor Protection
- Counter Drug
- Anti-Piracy

Classification / Requirements Base: Military

DIMENSIONS

Length o.a.	139.0 m
Beam	19.6 m
Draught (max)	5.0 m
Displacement full load	5600 tonnes

PERFORMANCE

Maximum Sustained speed	30 knots
Range at 14 knots	6700 nm
Endurance	30+ days at sea crew only 15+ days at sea with full complement

PROPULSION SYSTEM

Propulsion system:	Diesel - Hybrid
Propulsion:	4 x Diesel Engines + 2 x Electrical PTI
Propellers:	2 x Controllable Pitch Propellers

COMPLEMENT

Crew min./max.:	108/125
Additional personnel	128

TRANSPORT CAPACITIES

Flight deck:	1 Helicopter spot, heavy weight helicopter
Hangar:	280 m ² 2 x Medium Helicopters Unmanned Aerial Vehicle (UAV 3 x TEU)
X-Deck:	530 m ²
Multi Functional Missions Space:	285 m ²
Mission Cargo Hold:	160 m ²
Ship stores:	100 m ²
Mission Ammunition Store:	100 m ²
Ship Ammunition Store:	115 m ²

EQUIPMENT

- NBCD Citadel (2-Zones)
- Ammunition Elevator
- 1 x RHIB (6 meter)
- 2 x LCVP (Optional)
- 3 x Fast Interception Craft (Optional)
- X-Deck overhead crane / DAVIT System SWL 2 x 15 tonnes
- Detachable Ramp (Stern/Side)
- Provision Crane SWL 1.5 tonnes
- Convertible Slipway + Recovery System / Landing Craft Beach

WEAPONS & SENSORS SUITE

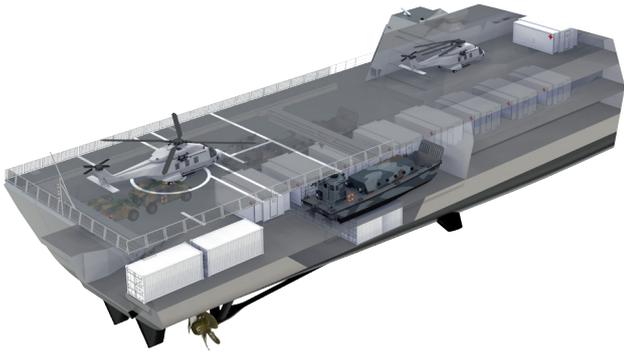
Communication: Combat management system, Command and Information Centre, Integrated internal & external communication system

Sensors: I-Mast 100, IFF System, X/S Band Radar, Helicopter Approach Radar, 2 x STIR, 2 x Military SATCOM, 1 x SATCOM, 1 x ECM and Hull Mounted Sonar Sensors

Weapons: 1 x 76mm gun, 2 x 35mm Millennium gun, 2 x 12.7mm RC Force Protection, 2 x Torpedo Launching System, 1 x VLS (AAW), 2 x SRBOC Launcher and 2 x Harpoon (SSM)

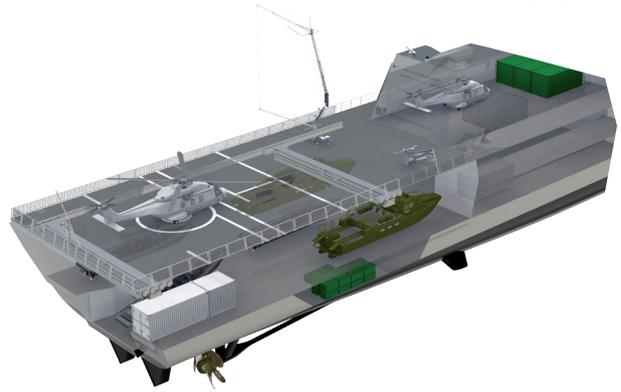
**ROLE SWITCHING:
DEDICATED CAPABILITY PACKAGES**

CROSSOVER
XO SERIES



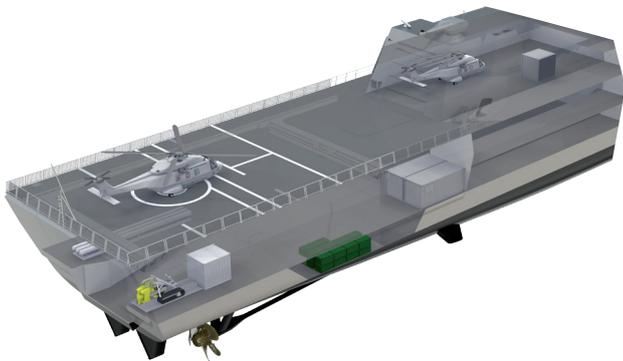
HUMANITARIAN AID & DISASTER RELIEF (HADR)

- Onboard deployable hospital
- Helicopters
- Ambulances
- Landing Craft



ANTI PIRACY

- Fast interception craft
- Fixed wing UAV
- Detention & medical elements
- Intelligence & coordination



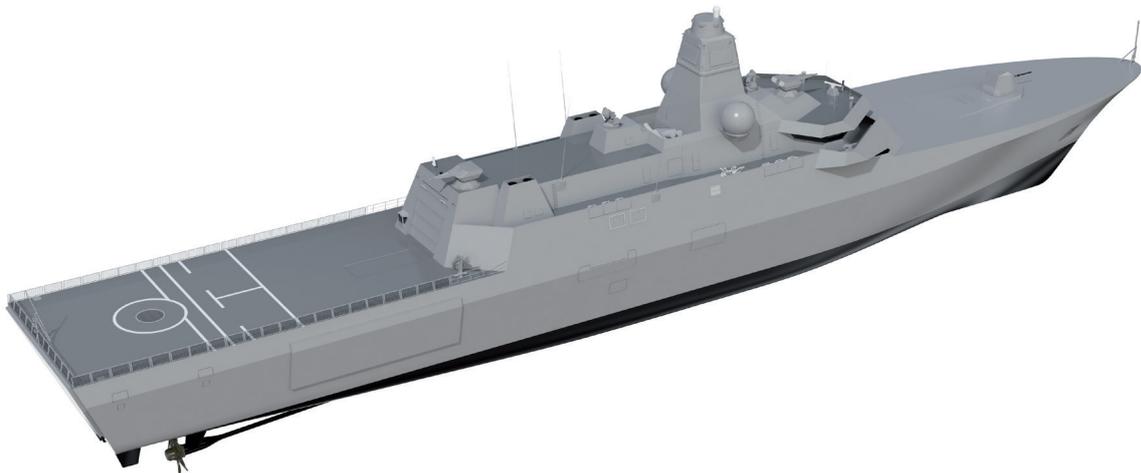
ANTI SUBMARINE WARFARE (ASW)

- Modular Towed Array System
- ASW helicopters
- Heavyweight torpedo system



AMPHIBIOUS RAID

- Tactical vehicles
- Force protection craft
- Fixed wing UAV
- Landing Craft



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DAMEN

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Member of the DAMEN SHIPYARDS GROUP



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