Damen Schelde Naval Shipbuilding (DSNS), a member of the Damen Shipyards Group, has the capability and track record to produce and deliver quality, fit-for-purpose ships to the highest standard, on schedule, at competitive prices, giving clients the best value for money.

MISSION FLEXIBLE COMBATANT

Design, engineering, production and selection of every ship of every type in consultation with the customer, resulting in a perfect match to their requirements and ensuring exceptional performance. DSNS offer an integrated combat system:
- High level of comfort with low inboard and underwater radiated noise
- Extremely low vibration levels even at max. power
- Extremely low noise levels, even, sea friendly
- Operational and sailing perfection

DESIGNED TO REFLECT VARIOUS OPERATIONAL PROFILES
The Crossover Series development was based on several operational profiles, which reflected a wide range of tactical types. Hence, the Command, Control, Communication and Combat systems are preselected accordingly, ready to be tailored to customer requests.

SMART USE OF STANDARDS RESULTING IN LOW COSTS
DSNS is well-versed in applying a clever mix of commercial and naval standards and specifications resulting in the required naval quality and systems characteristics, while achieving low support costs through the competitive pricing and availability of the applied Commercial Off-The-Shelf (COTS) solutions.

DOMINANT
- State-of-the-art integrated combat systems
- High level of comfort with low inboard and underwater radiated noise
- Extremely low vibration levels even at max. power
- Fast, highly manoeuvrable, silent, sea friendly
- Operational and sailing perfection

DESIGNED TO REFLECT VAARIOUS OPERATIONAL PROFILES
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Role Switching: Dedicated Capability Packages

- Humanitarian Aid & Disaster Relief (HADR)
  - Onboard deployable hospital
  - Ambulances
  - Landing Craft
- Anti-Piracy
  - Fast interdiction craft
  - Fixed wing UAV
  - Detection & medical elements
  - Intelligence & coordination
- Anti-Submarine Warfare (ASW)
  - Modular Towed Array System
  - ASW helicopters
  - Fixed wing UAV
  - Landing Craft
- Amphibious Raid
  - Tactical vehicles
  - Force protection craft
  - Helicopters
  - Landing Craft
- Modular Towed Array System
  - HDWR
  - Detention & medical elements
  - Intelligence & coordination
  - ASW helicopters
  - Fast interception craft
  - Fixed wing UAV

MISSION FLEXIBLE COMBATANT

- HnlMs Johan De Witt
  - Length o.a. 176 m
  - Beam mld 27 m
  - Displacement 16680 tonnes
- Patrol Ship Holland Class
  - Length o.a. 108 m
  - Beam mld 16 m
  - Displacement 3750 tonnes
- Multi-Purpose Frigate 9813
  - Length o.a. 98 m
  - Beam mld 13 m
  - Displacement 1950 tonnes
- Joint Support Ship
  - Length o.a. 205 m
  - Beam mld 30 m
  - Displacement 27000 tonnes

ROSSOVER

- XO 115 s (security)
- XO 123 sF (Fast security)
- XO 131 L (Logistic)
- XO 131 A (Amphibious)
- XO 139 CF (Fast combatant)
- XO 131 C (Combatant)

CROSSOVER XO SERIES

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- Ambulances
- Helicopters
- Landing Craft
- Modular Towed Array System
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- Fixed wing UAV
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HUMANITARIAN AID & DISASTER RELIEF (HADR)

- Modular Towed Array System
  - ASW helicopters
- Fixed wing UAV
- Landing Craft

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CRossover CRossover seRies

Combining and projecting the success of both the ENForCeR capable of high speeds with low vibrations and excellent ship deck spaces, optimum internal logistics and vital infrastructure. The Enforcer philosophy guarantees a flexible arrangement of tasks increases while the number of ships remains the same or even decreases. Fully developed to execute current tasks and cater for future requirements, the Damen CRossover already aligns mission modalities and concepts. Refined to this innovative model it is the Damen Black: a unique, flexible deck to handle, store, operate and deploy mission equipment, fast delivery, as well as docking craft. As multiple modes of access and handling are provided, future systems, without a lot of power, will be able to be fitted and operated.

THE BEST OF BOTH WORLDS: THE NAVY’S UTILITARIAL ARMADA In recent maritime operations easy ships were increasingly sent out on missions as single ships. Future ships need to be self-sustaining, self-reliant and capable of dealing with threats effectively. The Damen CRossover is a generic, highly robust and powerful. At the same time, integrated operations have to handle on a single mission. Hence military common practice.

The Damen CRossover has been developed as a new hybrid ship concept to address these combined trends. With the fighting power of a frigate, it has the endurance, versatility and flexibility of an armless ship.

FlexibleY FoR tHe FUtUre

With the fighting power of a frigate, it has the endurance, versatility and flexibility of an armless ship. The Damen CroSSoVer is autonomous, agile, robust and powerful. At the same time, integrated operations have to handle on a single mission. Hence military common practice.

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THE DAMEN CRossoVER seRIES

BUILT ON PROVEN TECHNOLOGY

Combining and projecting the success of both the ENForCeR ULPs and the SIGMA Combatant Series, Damen has created an iconic class, the CRossover.

The Enforcer philosophy guarantees a flexible arrangement of deck spaces, optimum internal logistics and solid infrastructure. The Sigma series “genetics” provides a proven hull form capable of high speeds with low vibrations and excellent ship handling properties, even in extreme conditions.

ENABLING A WIDE OPERATIONAL PROFILE

- Maritime Warfare (AAW/ASW/AOA)
- Special Forces Amphibious Operations
- Humanitarian Aid / Disaster Relief (HADR)
- Mine Counter Measures (MCM) Operations
- Unmanned vehicle deployment (AUV/UUV/USV)
- Hydrographic Survey Operations

THROUGH-LIFE OPERATIONAL FLEXIBILITY

CROSSOVER XD SERIES

CROSSOVER XD SERIES

Type: XD 115 S, XD 120 SF, XD 131 L, XD 131 A, XD 131 C, XD 19 CHP
Long: 115 120 131 131 131 139
Width: 24 24 24 24 24 24
Displacement: 1500 1900 3000 2500 2500 2500
Length: 115 120 131 131 131 139
Width: 24 24 24 24 24 24
Displacement: 1500 1900 3000 2500 2500 2500
Landing craft: 1 1 1 1 1 1
Power plant: 1 1 1 1 1 1

SURVIVABILITY FEATURES

The CRossover design includes various essential, though cost-effective, survivability features/options:

- Compliance to damage stability requirements
- Damage control facilities & Fire-fighting systems
- Signature Enhancements
- Noise control, RCS Shaping, & DEEsuppression
- Vulnerability enhancements
- NBC Protection, Shield proving, Blast ballistics, Redundancy on mission-critical systems