Hullform: Metal Shark’s 165’ (50m), 140’ (43m), and 100’ (31m) DEFIANT offshore patrol vessels are based on globally-proven Damen designs. All three vessels utilize the Damen “Enlarged Ship Concept,” where the hull of a ship is extended to create an elongated hull form that substantially enhances seakeeping, operability and crew comfort by reducing vertical ship motions. The “Sea Axe” bow design utilized on the 165’ and 100’ represents a further evolution of the Enlarged Ship Concept. These Axe Bow vessels feature an extremely slender and deep bow, without any flare, that provides unparalleled soft seakeeping characteristics.
Construction: Each Defiant Offshore Patrol vessel is produced at Metal Shark’s large vessel shipyard complex in Franklin, Louisiana USA where upon completion they are easily launched in the Gulf of Mexico. All Defiant Offshore ships feature durable welded construction. The 165’ and 140’ feature steel hulls with aluminum decks and superstructure, while the 100’ is all aluminum. Metal Shark’s expertise in patrol boat production, with hundreds of vessels in service worldwide, coupled with Damen’s technical expertise, ensures a state of the art, precision craft that is built to last.
The all-aluminum Metal Shark 100’ Defiant is based on the state-of-the-art Damen Stan Patrol 3007. This next-generation offshore patrol boat features the proven Damen “Sea Axe” bow and the extended, slender hullform that gives the Stan Patrol models their superlative seakeeping characteristics.

Layout: Each Defiant model features Metal Shark’s pillarless glass to significantly reduce blind spots. This, combined with the elevated superstructure, provides ideal visibility for the crew. The Defiant’s wheel house has been placed at the location where ship motions are least: approximately one third distance from the stern. This positioning creates the best possible working environment for the crew. The Defiant patrol vessels have been designed to allow for custom accommodations. A high-speed tender can be easily accommodated on the aft deck, where it can be launched from and recovered into an integrated stern slipway.
Crew Ergonomics: The major controls and communication devices of each Defiant Offshore Patrol vessel are integrated into the helmsman’s seat. Even in the most inclement conditions, the helmsman can easily and comfortably control the ship. Throughout the vessel, flexible carpentry and floating floors have been deployed to reduce vibration.

Like all Metal Sharks, interior layout may be fully customized to suit virtually any mission requirement.
**Propulsion:** Metal Shark’s Defiant Offshore Patrol vessels can be equipped with Caterpillar or MTU engines. In standard configuration, the 165 Defiant is equipped with four Fixed Pitch Propellers, two hydraulic bow thruster and two rudders. The 140 Defiant is equipped with two Controllable Pitch Propellers, single bow thruster, and two rudders. The 100 Defiant is equipped with two Fixed Pitch Propellers, single bow thruster, and two rudders. All controls of the engines, bow thruster and rudders are integrated in the helmsman’s seat. The ship can be controlled from the wheelhouse and also the flying bridge.
Metal Shark’s Franklin Shipyard: The Defiant Offshore Patrol vessels are fabricated at Metal Shark’s large vessel shipyard complex in Franklin, Louisiana. This 25-acre waterfront facility is situated with direct access to the Gulf of Mexico and supports aluminum and steel shipbuilding efforts for vessels up to 250’. Metal Shark has extensive experience in producing custom patrol boats, with hundreds of vessels in service with the United States Coast Guard, Navy, Air Force, Army, and the militaries of partner nations worldwide.
165' DEFIANT SPECIFICATIONS
HULL MATERIAL: Steel
WHEELHOUSE MATERIAL: Aluminium

DIMENSIONS
LOA: 165' / 50.02 m
BEAM: 31' / 9.40 m
DEPTH AT SIDES: 14' / 4.30 m
DRAFT: 11' 6" / 3.50 m

TANK CAPACITIES
FUEL OIL: 16,669 Gallons / 63.10 m³
FRESH WATER: 7,027 Gallons / 26.60 m³
BILGE WATER: 713 Gallons / 2.70 m³
LUB OIL/DIRTY OIL TANK: 476 Gallons / 1.80 m³
SEWAGE (GREY): 3,091 Gallons / 11.70 m³
SEWAGE (BLACK): 1,849 Gallons / 7.00 m³

PROPULSION SYSTEM
MAIN ENGINES: 4 x Caterpillar C32 TOTAL POWER: 4324 bkW (5800 bhp) 2000-2300 rpm
GEARBOXES: Reintjes WVS 730
PROPPELLERS: Fixed pitch propellers
BOW THRUSTER: 2 x 100 bkW

AUXILIARY EQUIPMENT
MAIN GENERATOR SETS: 2 x Generator sets, 107 kVA ea
NETWORK: 230/400V – 50 Hz
FIRE FIGHTING (INTERNAL): Fixed Fi-Fi system in engine room (Novec)
FIRE FIGHTING (External) 120 m³/h
BILGE WATER SEPARATOR: Facet, CPS-2.5 MK II
FUEL SEPARATOR: Westfalia OTC-2
ANCHOR: 2x 270 kg, High holding power, Pool - TW
ANCHOR WINCH: Electric driven
HYDRAULIC CRANE: Heila HLM 3-2 S

140' DEFIANT SPECIFICATIONS
HULL MATERIAL: Steel
SUPERSTRUCTURE: Aluminium

DIMENSIONS
LOA: 140' / 42.80 m
BEAM: 23' 4" / 7.11 m
DEPTH AT SIDES: 12' 4" / 3.77 m
DRAFT: MAX 8' 3" / 2.52 m

TANK CAPACITIES
FUEL OIL: 7,925 Gallons / 30.0 m³
FRESH WATER: 1,690 Gallons / 6.4 m³
WASTE WATER: 2,219 Gallons / 8.4 m³
DIRTY OIL/ BILGE WATER: 317 Gallons / 1.2 m³

PROPULSION SYSTEM
MAIN ENGINES: 2x MTU/Caterpillar/Cummins TOTAL POWER: 4000 – 6000 bkW
GEARBOXES: 2 x Reintjes/ZF
PROPPELLERS: 2x Controllable pitch propellers
BOWTHRUSTER: 1x 75 kW

AUXILIARY EQUIPMENT
NETWORK: 24V d.c., 230/400V 50 Hz a.c.
GENERATOR SETS: 2x 86 ekW, 107 kVA
ANCHOR EQUIPMENT: 1x 196 kg H.H.P. 140 m U2 chain 16 mm
ANCHOR WINCH: Electric driven
CRANE: Heila HLM 3-2 S
FIRE EXTINGUISHING: Hand operated fire extinguishers. Fixed Fi-Fi system in engine room (Novec 1230)
EXTERNAL FIRE FIGHTING: Water/foam monitor

100' DEFIANT SPECIFICATIONS
HULL MATERIAL: Aluminium
SUPERSTRUCTURE: Aluminium

DIMENSIONS
LOA: 101' / 30.93 m
BEAM: 23' 6" / 7.15 m
DEPTH AT SIDES: 10' 6" / 3.20 m
DRAFT: MAX 7' 2" / 2.20 m

TANK CAPACITIES
FUEL: 3,830 Gallons / 14.5 m³
FRESH WATER: 793 Gallons / 3.0 m³
WASTE WATER: 977 Gallons / 3.7 m³

PROPULSION SYSTEM
MAIN ENGINES: 2 x x Caterpillar / MTU TOTAL POWER: 1790 to 3600 bkW
GEARBOXES: 2 x Reintjes series
PROPPELLERS: 2 x Fixed pitch propellers BOW THRUSTER : 1x 50 kW

AUXILIARY EQUIPMENT
NETWORKS: 24V d.c., 230/400V 50 Hz a.c.
GENERATORS: 2 x 51.5 ekW / 64.5 kVA
ANCHOR EQUIPMENT 1 x H.H.P. Pool Tw 110 m U2 chain
ANCHOR WINCH: Electrically driven
FIRE EXTINGUISHING: Hand operated fire extinguishers
Fixed Fi-Fi system in engine room (Stat-X)