



METAL SHARK
ALUMINUM BOATS

75 DEFIANT



Setting the Industry Standard for Tactical Firefighting Vessels.



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The **Metal Shark 75 Defiant** is a welded aluminum pilothouse vessel designed for use in law enforcement, tactical fire fighting, pilot operations, or other missions where fast response, all-weather capability, large capacity, and extended range are key considerations. Like all Metal Sharks, the 75 Defiant may be fully customized to meet virtually any mission requirement. Shown here as equipped for fire rescue response missions, the 75 Defiant sets a new industry standard for tactical firefighting vessel technology.



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Hull Design: The 75 Defiant features a proven Metal Shark hull design that has been engineered and built to precise tolerances. To achieve its superior hull life rating of 30+ years, the vessel's hull, deck, and pilothouse structure are composed entirely of heavy, welded plates of premium-grade 5086 aluminum alloy. Thanks to its wide 21' beam, the 75 Defiant is extremely stable yet surprisingly fast, capable of speeds in excess of 40 knots.



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Deck Layout: At the heart of the 75 Defiant's crew-friendly design is its spacious, clutter-free deck arrangement and expansive, open work spaces that allow for easy, surefooted passage from bow to stern. Wide, non-skid walkways feature low-level LED lighting for night missions, and careful consideration has been given to the placement of all rails and grab handles. Crew members may safely traverse the vessel, day or night, even in adverse weather conditions. A durable foam-filled collar provides impact resistance during alongside maneuvers; while port and starboard dive recesses and the full-width swim platform provide easy access to and from the water.



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75 DEFIANT



Propulsion & Performance: Equipped for maximum speed, the 75 Defiant is capable of achieving 40+ knots. For the ideal balance of performance, economy, and reliability, twin Caterpillar C32 diesels mated to Hamilton HM-651 waterjets will propel the vessel to speeds in the 30-knot range. The propulsion units interface with the onboard MECS (modular electronic control system) to provide pinpoint control during tactical maneuvers. By engaging the water jet's split-duct thrust-reversing "buckets," the vessel can be brought from planing speed to a full stop within three boat lengths. Pivoting, turning, crabbing sideways, and other maneuvers are accomplished with ease, a remarkable feat for a vessel of this size and heft.



75 DEFIANT

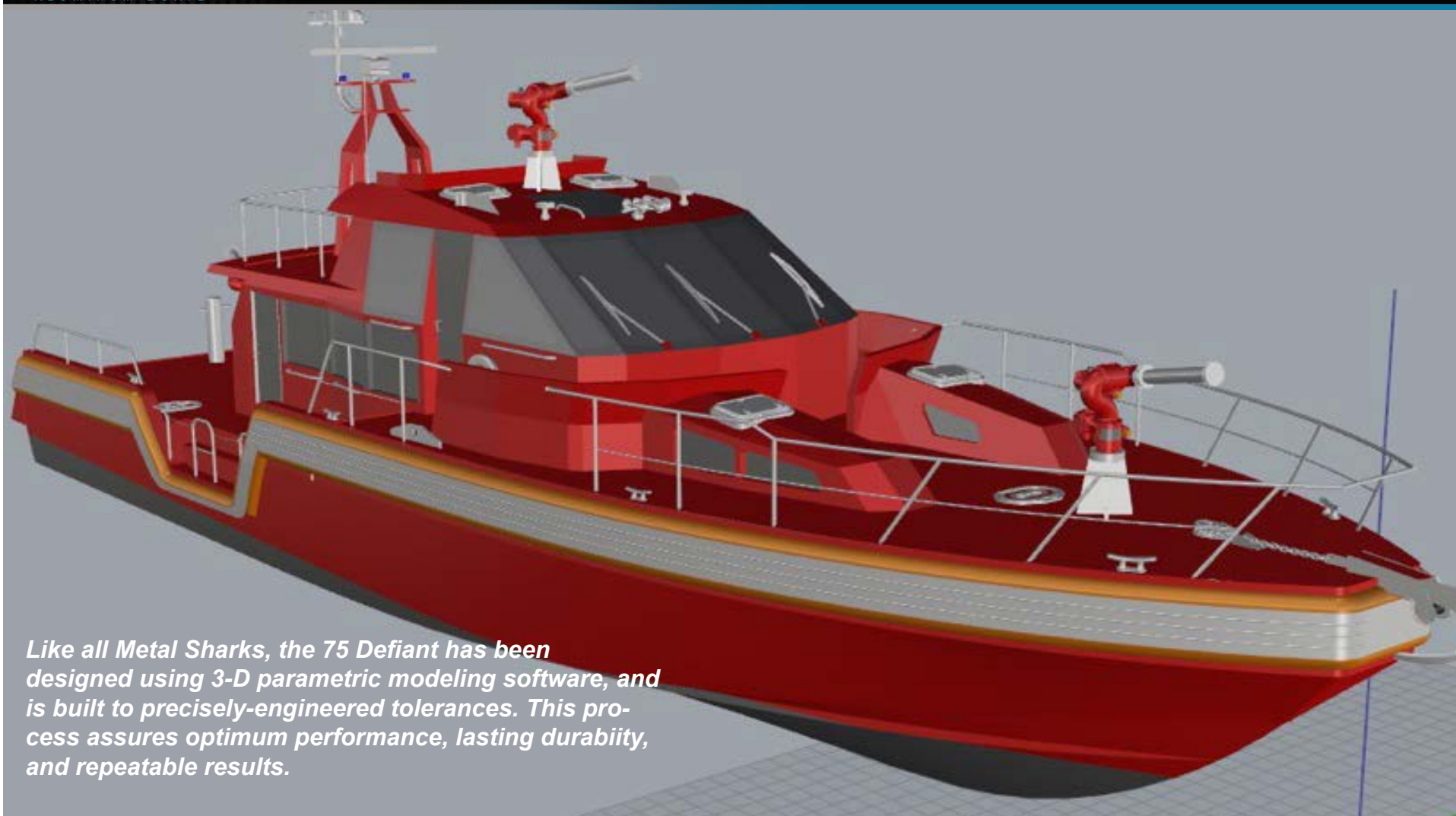


The 75 Defiant was designed to employ the latest in tactical firefighting technology, with high-capacity pumps and multiple RF-controlled monitors, foam eduction capability, and provisions for use as a shore hydrant.

Tactical Firefighting: The 75 Defiant shown here is equipped with three RF-controlled monitors, fed by dual high capacity 4,000 GPM pumps with dedicated engines drawing from an in-hull sea chest for full flooded suction. A 400 gallon foam reservoir supplies the vessel's in-line eductor system to fight oil-based marine fires. The 75 Defiant also serves as a shore pump station, with Storz connections to support land-based fire fighting efforts. Multiple monitor and handline configurations are available.



75 DEFIANT



Like all Metal Sharks, the 75 Defiant has been designed using 3-D parametric modeling software, and is built to precisely-engineered tolerances. This process assures optimum performance, lasting durability, and repeatable results.

Emergency Response: The 75 Defiant may be configured to serve as an on-water ambulance, with dedicated EMT/EMS patient care zones, a wireless crew comm system to coordinate response operations, high-capacity motor-driven onboard cranes, and a variety of CBRNE (chemical, biological, radiological, nuclear, and high-yield explosive) positive-pressure ventilation and crew protection systems for disaster response readiness.



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Pilothouse: The most immediately apparent advancement in Metal Shark's Defiant pilothouse design is the use of pillarless glass to substantially enhance visibility. The result is a near elimination of the dangerous blind spots which are an unfortunate drawback of conventional pilothouse vessels. Large spotter windows allow the crew to see overhead aircraft. Further, the 75 Defiant's quickly opening side and aft pilothouse windows offer added flexibility and greatly facilitate communication when docking or maneuvering alongside another vessel. The pilothouse is shown here with a full galley, dinette, and crew station. Other configurations are available.



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75 DEFIANT



Helm: The 75 Defiant helm features a massive dash area that easily accommodates all controls, instruments, and navigation equipment, allowing for easy operation of the vessel and all onboard systems. The elevated helm affords an outstanding view; facilitating navigation and maneuvering in multi-vessel and/or fire fighting operations.



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Alternate view of a typical Defiant-class pilothouse layout, looking aft, showing crew seating and dinette. Vessel layout may be completely customized to suit your specific mission profile and crew requirements.



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Available accommodations include private or semi-private crew quarters, as shown, or more open arrangements.

Crew Accommodations: Below-decks, the 75 Defiant's ample beam allows for a wide range of available configurations, which can be custom-tailored to suit specific mission requirements. In various configurations, the vessel can easily sleep between two and eight crew, with the potential for increased capacity with a more open arrangement than that shown above. There's also an enclosed head compartment with fresh water sink and hot water shower, with multiple galley options available.



75 DEFIANT

SPECIFICATIONS (Typical Configuration):

Length,	75' / 22.86 m
Beam:	21' / 6.4 m
Operational Draft, Outboards:	39" / .99 m
Fuel Capacity (Std):	3,000 gallons / 11,356 L

KEY FEATURES:

Batteries, Optima - Quad
Bilge Pumps: (4) 3700 GPH
Bow Bit & (8) 10" Cleats
Collar: Solid Foam Wraparound
Construction: Welded 5086 Aluminum Alloy
Cabin Defrosting System
Chart Table w/ Integrated Storage
Dash: Large, for Electronics and Controls
Decks: Self-Bailing w/ Scuppers
Dive Reliefs: Port & Starboard
Electronics Mounting Pod: Overhead
Fire Extinguishers: (4)
Fuel/Water Separators: Racor (2)
Grab Rail Package
Galley with Sink, Refrigerator, and Stove
Head, Enclosed w/ Marine Toilet, Sink, & Hot Water Shower
Ladder, Removable
Life Ring w/ Mount
Lighting: Accommodations Area
Lighting: Courtesy LED Work Lights
Lighting: Low-Level Walkway Illumination
Lighting, Navigation
Lockers: Bow/Anchor & Stern
Non-Skid Decks & Gunnels
Settee w/ Table (Converts to Berth)
Steering Helm, Tilt Hydraulic
Shore Power Cord w/ Charger
Stern Bit
Windows, Diamond SeaGlaze
Windshield Wipers, Self Parking
Zinc Anodes, Hull

COLLAR & HULL FENDERING SYSTEM:

Heavy-Duty Sheath-Wrapped Foam Collar
Bolt Rope Style Attachment System
Black rub strake
Anti-fouling paint preparation behind collar
Custom color choices & UV coating protection
Integrated dive relief cutouts

SPECIAL NOTE:

As a fully custom designer and manufacturer, Metal Shark routinely modifies vessels to meet a customer's specific requirements. Customization may entail anything from altering the physical dimensions and capacities of the vessel to the installation of specialized equipment and accessories. Electronics, seating, paint finish (if desired) and virtually any other aspect of the vessel's features may be determined by the customer.

The specifications and key features shown here are representative of a common vessel setup and are given for reference only.



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