



# SPECIALTY WEAPONS

**RAPID RESPONSE  
PROVEN SOLUTIONS**



*Special Missions Center at Naval Surface Warfare Center, Crane Division (NSWC Crane) supports the Department of Defense (DoD) in the warrior centric capability areas of Special Operations, Irregular Warfare and Expeditionary Operations primarily Navy Special Warfare and Naval Expeditionary Forces.*

*Special Mission's Specialty Weapons thrust area personnel are responsible for designing, developing, and delivering real-time integrated open architecture solutions to the elite Warfighter, giving them a decisive cost effective advantage in the ever-changing combat environment.*

## SUPPORTING THE WARFIGHTER

Offering full lifecycle support, NSWC Crane equips and supports the elite warrior with best-in-class technical solutions, including small arms, pyrotechnics/demolition, materials, EO targeting, special ammunition, non-lethal weapons and optically-guided munitions. NSWC Crane's technical experts and engineers work one-on-one with the Warfighter to research, develop, test and deploy the weapons systems that will protect their lives in the field — integrating threat assessment, proven solutions and risk management.

NSWC Crane has supported Special Operations Command (SOCOM) since its inception in 1987. Its vital role with our nation's Special Operations Forces has been documented by the military through lifecycle and system support.

## PRODUCTS AND SUCCESS STORIES



NSWC Crane provides the elite warrior with world-class Weapons and Weapons Systems capabilities integrated into multiple platforms across the multi-domain environment. Weapons systems include Specialized Munitions, Specialty Small Arms Weapons, Ammunition and remotely operated weapons systems. NSWC Crane provides full spectrum total lifecycle support for every Navy small arms weapon less than 20mm, maintaining a robust technical expertise that enables the Specialty Weapons capability to be adaptable to any platform.

Utilizing NSWC Crane's ordnance expertise in pyrotechnics and ordnance, NSWC Crane developed and deployed a reliable, practical solution for the Warfighter called the Improved Exothermic Rod Igniter (IERI). Existing igniters suffered high failure rates and a short shelf life, forcing Warfighters to carry more igniters than actually needed and waste critical combat time attempting to ignite the touch rods. The IERI improved the reliability rate to nearly 100 percent, extended the igniter's shelf life and won the 2007 Outstanding Patent of the Year award at the Patent Award Ceremony at NSWC Crane.

NSWC Crane weapons integration experts rapidly transitioned technology, resulting in the design, development, testing and production of the Remote Operated Small Arms Mount (ROSAM). This system increases the safety and effectiveness of our Warfighters by allowing them to mount a variety of weapons systems, such as 0.50 caliber machine guns, Gatling guns, lightweight grenade launchers and small rocket launchers - on a stabilized mount. Additionally, NSWC Crane played a key role in the integration of the Rafeal Spike Missiles on to the Navy's Mk49 MODo ROSAM. This resulted in the first ever successful testing of unmanned surface vessel precision engagement module (USV PEM).

For more than a decade, specialty weapons experts have supported ground, surface and air centric platform integration capabilities. Currently, NSWC Crane is supporting every NAVAIR rotary wing aircraft small arms weapon system as well as mount support for US SOCOM, USN, NECC, WARCOC and AFSOC. By leveraging its proven expertise, unmatched technical capabilities and rapid response time, Special Missions NSWC Crane is striving to become a platform integration leader within the DoD.

NSWC Crane is responsible for the evaluation and certification for all small arms used by the Navy as well as for qualification and testing of specialty weapons across the expeditionary community.



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## CUSTOMERS AND PARTNERS

With proven solutions and rapid response time for some of our military's most critical weapons and munitions issues, NSWC Crane weapons experts are a longtime, relevant and trusted resource for preparing our Warfighters. The DoD, Marine Corps, Naval Sea Systems Command (NAVSEA), Army and Navy continue to turn to NSWC Crane decade after decade for full lifecycle specialty weapons support.

## LEADERSHIP, FACILITIES, AND CAPABILITIES

NSWC Crane partners with leading munitions and weapons experts in government agencies, private industry and academia to provide the Warfighter with rapidly transitioned, reliable and practical solutions. NSWC Crane's nationally recognized civilian and government employees coalesce to form one of the most elite teams in the world dedicated to Special Missions and our nation's special operations initiatives.

NSWC Crane's detachment in Fallbrook, Calif. enhances the Special Missions expertise as a provider of weapons assessment and engineering test and evaluation of systems employed with the Warfighter in combat. The detachment's close proximity to other military facilities allows flexible and adaptable test and evaluation site capabilities. Military resources are optimized through continuous assessment and engineering so that munitions and weapons systems will be at the highest possible state of readiness.

NSWC Crane's Special Missions capability is supported by over one-million square feet of facilities, including Fallbrook, Calif., which provide a world-class work environment for more than 1,000 employees. Other Specialty Weapons and Munitions facilities include:

- Live-fire testing ranges
- Indoor firing range
- Underwater demo test facility
- Special munitions range
- Laser and Electro-Optics Ranges
- Special Weapons Assessment Facility

NSWC Crane's Special Weapons Assessment Facility provides unmatched real-time instrumented weapons Test and Evaluation capability utilized by numerous DoD customers to assess the weapons and ammunition used by today's Warfighters. It includes an internal armory, multiple ammunition magazines and ammunition conditioning bays that allow the Center's experts to test and analyze weapons and ammunition in different environmental conditions. An enhanced acoustic targeting system provides Special Mission Experts with the ability to track ballistics in 100-yard increments up to 1,400 yards.

Trusted to train our military's most elite Warriors, the NSWC Crane's weapons experts are nationally recognized professionals in their respective fields. In addition to traveling worldwide for on-site training with deployed troops, weapons experts utilize Camp Atterbury's Joint Maneuver Training Center's world-class facilities and the Muscatatuck Urban Training Center (MUTC). At MUTC, a leading-edge urban warfare training center, Special Missions Warfighters train in a wide range of urban environments to include specific weapons and targeting scenarios.

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